E v o l D i r

February 1, 2014

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be "bulletin board" in nature, if there is a "discussion" style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.

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Conferences

ArizonaStateU CenterEvolutionMedicine Jan17-22

Inaugural Lectures and Symposium The ASU Center for Evolution, Medicine & Public Health Randolph Nesse, Director

Streamed live at http://www.ustream.tv/channel/asu-live All times are Mountain time (GMT-7) Clickable links at https://sites.google.com/a/asu.edu/cemph/

January 17 - 22

The ASU Center for Evolution, Medicine & Public Health (CEMPH) will host several events to celebrate the center's launch. Directed by Randolph Nesse, a founder of the field of evolutionary medicine, the center's mission is to establish evolutionary biology as a basic science for medicine and public health worldwide. Research is at its core, but the center will also have major commitments to education, outreach and developing similar programs elsewhere. The new center synergizes with the ASU Center for Evolutionary Medicine and Bioinformatics, directed by Sudhir Kumar, by aug-

menting existing strengths in phylogenetics, with new faculty whose research uses basic evolutionary principles to understand problems such as antibiotic resistance, cancer, autoimmune disease, aging and behavioral disorders.

SCHEDULE OF EVENTS - open to the public

Fri., January 17, 2-3:15 p.m. in LSE 104 (refreshments served beforehand)

William Aird, Professor of Medicine, Harvard Medical School, Director, Center for Vascular Biology Research Beth Israel Deaconess Medical Center

Galen, hagfish and the bench-to-bedside gap in endothelial biomedicine: a noisy affair

Tues., January 21, 1-6:30 p.m. in Memorial Union 241

Symposium on Evolution, Medicine & Public Health: The Great Opportunity

1 p.m. Mark Flinn, Professor & Chair of Anthropology, University of Missouri Hormones in the wild: Physiological adaptations for human social relationships

2:30 p.m. Andrew Read, Alumni Professor in the Biological Sciences, Professor of Entomology, and Director, Center for Infectious Disease Dynamics The evolution of drug resistance and the curious orthodoxy of aggressive chemotherapy

4 p.m. Panel discussion with the four visitors and ASU faculty, led by Randolph Nesse Making evolutionary biology a basic science for medicine worldwide: What can ASU do?

5:30 p.m. Open reception for all who share an interest in evolution and medicine

Weds., January 22, noon-1 p.m. ISTB-1 401

Bernard Crespi, Professor of Biology, Simon Fraser University Where Darwin meets Freud: Evolutionary biology and the genetics of autism, psychosis, and the social brain

To join the group for CEMPH events send a note to CEMPH@asu.edu

For a printable color poster for the events, click here.

For a folder with the speaker's CV's and papers, click here.

Abstracts below

William Aird Galen, hagfish and the bench-to-bedside gap in endothelial biomedicine: a noisy affair

The vascular endothelium, which forms the inner lining of the blood vascular system, is an under-appreciated organ system that has enormous, though largely untapped diagnostic and therapeutic potential. There exists a wide bench-to-bedside gap in endothelial biomedicine. Future advances in vascular medicine are contingent upon narrowing the gap and translating knowledge to improve patient care. A first step is to recognize the origins of the existing chasm. One reason relates to medicine's present-day preoccupation with large arteries, at the expense of the vast expanses of microscopic small blood vessels or capillaries. While large arteries are vulnerable to developing atherosclerosis, microvessels hold important clues about the mechanisms of virtually every other disease in humans. I will discuss how our focus on large vessels is rooted in Ancient Greek medicine, and was further sharpened by William Harvey's discovery of the circulation. In the 1900s, the compartmentalization of medicine into organ-specific disciplines further hampered our ability to approach the vasculature as an integrated organ. Another reason for the lack of progress in knowledge translation is our focus on cell culture. I will discuss how traditional in vitro studies have shaped our view of the endothelial cell as a homogeneous entity and precluded analysis of its emergent properties. I will emphasize the remarkable adaptability of the intact endothelium, review proximate mechanisms of endothelial cell heterogeneity, and introduce the novel role of multistability and biological noise in mediating phenotypic differences between endothelial cells. Finally, I will address evolutionary mechanisms of endothelial heterogeneity. I will present data from our studies in hagfish, the oldest extant vertebrate, showing that phenotypic heterogeneity evolved as a core feature of the endothelium. In conclusion, I will argue that future breakthroughs in endothelial biomedicine will require an understanding of the dynamical regulatory network of the endothelium at multiple scales.

Mark Flinn

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AsilomarUSA InvasionGenetics Aug13-15

SAVE THE DATE! Invasion Genetics: The Baker and Stebbins Legacy A symposium at Asilomar, CA (USA)

13-15 Aug 2014

We are nearing the 50th anniversary of one of the most important books in evolutionary biology: The Genetics of Colonizing Species (1965) edited by Herbert Baker and G. Ledyard Stebbins. This classic volume was based on a symposium at Asilomar, California in 1964 and initiated the study of the genetics and evolution of invasive species. To revisit the historical legacy of the meeting and book, we are pleased to announce a symposium at Asilomar from August 13-15, 2014. The symposium will enjoy support from Wiley-Blackwell Publishers, and associated original papers will appear in a Special Issue of Molecular Ecology in 2015. The symposium proceedings (including the popular question-answer transcripts of the original) will also be published in 2015 as a book to mark the 50th anniversary of the original volume.

Please plan on joining us for this special event! DATES: August 13-15, 2014 LOCATION: Asilomar Conference Grounds (http://www.visitasilomar.com/)

REGISTRATION: Details coming soon. Contributed posters to be welcomed. Questions and requests for updates can be directed to invasiongenetics@wiley.com

SPEAKERS/AUTHORS: We have confirmed a broad range of contributors to reflect both the legacy of work on the genetics of colonizing species, and new contributions and perspectives:

Spencer Barrett Tim Blackburn Mark Blows Oliver Bossdorf Rob Colautti Melania Cristescu Troy Day Katrina Dlugosch Kay Hodgins Pierre Gladieux & Tatiana Giraud Mark Kirkpatrick Russ Lande Jennifer Lau Jonathan Losos John Pannell Stephan Peischl & Laurent Excoffier Loren Rieseberg Joanna Schmidt Rick Shine Neil Tsutsui Mark van Kluenen

ORGANIZERS: Spencer Barrett Rob Colautti Katrina Dlugosch Loren Rieseberg

Katrina M. Dlugosch, Assistant Professor Ecology & Evolutionary Biology, University of Arizona kdlugosch@email.arizona.edu | http://-dlugoschlab.arizona.edu katrina.dlugosch@gmail.com

Bangkok MEEGID DiseaseEvolution Dec11-13

The conference is 'MEEGID XII, 12th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases'. It will take place from the 11-13 December 2014 in Bangkok. The conference website can be view at http://-www.meegidconference.com . MEEGID XII will give special emphasis to health problems of South East Asia through plenary lectures, specialized symposia, and poster sessions. The topics are:

* Genetics, genomics, proteomics, population biology, mathematical modeling and bioinformatics. Submissions can deal with the host, the pathogen, or the vector in case of vector-borne diseases * Host + pathogen or pathogen + vector (co-evolution) * All pathogens, including: viruses; parasitic protozoa; helminthes; fungal organisms and prions * All infectious models, including those of veterinary or agronomical relevance * Cancer and infectious diseases

Sophie Hayward Marketing Communications Manager for MEEGID IIX

Sophie Hayward <sophie.hayward1@btinternet.com>

Cambridge NematodeEvolution Jun14-17

Greetings!

The 2014 Evolution of Caenorhabditis and Other Nematodes conference will take place June 14-17 at the Wellcome Trust Genome Campus, Hinxton, Cambridge, UK.

This conference will bring together scientists studying evolutionary processes in diverse nematode groups. In addition to attracting many researchers studying evolution in Caenorhabditis elegans as model organism (and its closer relatives such as C. briggsae and C. remanei), this meeting will also welcome scientists investigating other free-living groups and the numerous animal- and plant-parasitic nematode species that threaten human health and the global economy.

There will be a strong emphasis on genomic approaches and perspectives. The themes will include experimental evolution, fundamental evolutionary forces, genotype-phenotype relationships, metagenomic analyses, and processes of parasitism. Topics will include, but not be limited to: evolution of complex phenotypes; genome evolution - impact of nucleotide change on genomes, patterns of selection and adaptation; evolution of genome organisation; evolution of sex, recombination and asexuality; evolution of parasitism, pathogens and

symbiosis; speciation (genetics, phylogenetics and patterns).

Scientific programme committee Mark Blaxter, University of Edinburgh, UK Dee Denver, Oregon State University, USA Scott Baird, Wright State University, USA Holly Bik, University of California, Davis, USA Adrian Streit, Max-Planck Institute for Developmental Biology, Germany

Keynote speaker Patrick Phillips University of Oregon, USA

Confirmed speakers James Cotton, Wellcome Trust Sanger Institute, UK Etienne G.J. Danchin, INRA, Institut Sophia Agrobiotech, France Ronald Ellis, Rowan University - SOM, USA Suzanne Estes, Portland State University, USA Karin Kiontke, New York University, USA Ben Lehner, EMBL-CRG Systems Biology & ICREA, Spain Dorota Porazinska, University of Colorado, USA Paul Sternberg, California Institute of Technology, USA Valerie Williamson, University of California, USA

Conference provisional programme The conference will start at approximately 13.30 on Saturday, 14 June and will close at approximately 14.30 on Tuesday, 17 June 2014. A draft programme will be made available online, please refer back to this webpage for updates.

Meeting website: https://-registration.hinxton.wellcome.ac.uk/-display_info.asp?id=390
denvedee@cgrb.oregonstate.edu

Cambridge UK EvolutionaryGenomics Mar18

Evolutionary Genetics & Genomics Symposium, 18th March 2014, Cambridge, U.K.,

Evolutionary Genetics & Genomics Symposium 2014

The Evolutionary Genetics & Genomics Symposium (EGGS) will be taking place in Cambridge (UK) on Tuesday 18th March 2014. The meeting is free to attend and no registration is required.

If you are interested in presenting a talk please send a title, abstract and your affiliation to cegsymposium@gmail.com by 14th February 2014.

Talks are expected to cover all areas of evolutionary genetics, including comparative genomics, evo-devo, pathogen evolution and speciation. The symposium will consist of around ten 15-minute talks as well as three longer talks from invited speakers.

Our three confirmed invited speakers are:

Dr Richard Durbin (Sanger Institute) http://-www.sanger.ac.uk/research/faculty/rdurbin/ Dr Virpi Lummaa (University of Sheffield) http://-www.shef.ac.uk/aps/staff-and-students/acadstaff/-lummaa Prof Diethard Tautz (Max-Planck-Institut für Evolutionsbiologie) http://www.evolbio.mpg.de/-1580376/employee_page?employee_id=12084 Location: Department of Genetics, Downing Site, Biffen lecture theatre. More information will be posted here: http://heliconius.zoo.cam.ac.uk/camevolgen/eggs/ The meeting is sponsored by the Genetics Society (http://www.genetics.org.uk/) and is organised by the Cambridge Evolutionary Genetics (CEG) network (http://www.evolutionarygenetics.group.cam.ac.uk/-eggs/).

Richard Merrill & Ben Longdon

Richard Merrill <r.merrill@zoo.cam.ac.uk>

ColoradoStateU DiseaseEvolution EEID Jun1-3

Ecology and Evolution of Infectious Disease (EEID) Conference

June 1-3, 2014

Colorado State University, Fort Collins, Colorado

We look forward to seeing you at the 12th Annual EEID Conference held at Colorado State University, Fort Collins, Colorado, June 1-3, 2014. Please save the date. This conference welcomes both long-time and new participants to a congenial atmosphere designed for interaction and discussion, with the goal of exploring the research in the field of infectious disease and epidemiology. We expect registration to open during March. *To view the history of EEID conferences, and for updates, please visit: http://www.eeidconference.org* *Feel free to share this e-mail with your colleagues.*

– Michael F. Antolin

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e-mail: Michael.Antolin@ColoState.edu Voice: (1)-970-

491-0735 or (-7011) FAX: (1)-970-491-0649

Michael Antolin <antolin@rams.colostate.edu>

CzechRepublic 10thSymposiumOnCladocera Sept28-Oct3

Dear colleagues,

we would like to announce the upcoming 10th Symposium on Cladocera to be held in autumn 2014 in the Czech Republic.

As it became a tradition, this triannual meeting will focus on wide range of topics related to the biology of cladocerans, including their ecology, evolutionary biology and diversity, stressing their use as model organisms. With the availability of the Daphnia genome, its inclusion among NIH-recognised model organisms, and strong advances in fields such as Daphnia genomics, we hope this aspect will be increasingly represented as well.

When: September 28 to October 3, 2014 Where: Mikulov, Czech Republic Keynote speakers: Luc De Meester (Katholieke University Leuven, Belgium) Michael Lynch (Indiana University, Bloomington, USA)

Conference website: www.cladocera2014.org The venue: the small historical town of Mikulov, at the edge of Lednice-Valtice Cultural Landscape (UNESCO World Heritage Site), close to border with Austria, boasts not only many historical monuments and excellent winery, but also a well-equipped conference centre that will host the conference. It has good access from Vienna, Bratislava and Prague international airports.

Registration for the conference will be open in mid-February, in case of interest, sign up to the newletter on the conference website.

With regards on behalf of Cladocera 2014 organisers

Adam

Adam Petrusek Department of Ecology Charles University in Prague Vinicna 7 CZ-12844 Prague 2 Czech Republic

e-mail: petrusek@natur.cuni.cz

petrusek@natur.cuni.cz

EGI Oxford StudentConf Evolution Mar18-20

The Edward Grey Institute student conferences started in 1947 and are intended as a place for students to present their work in a constructive atmosphere composed mostly of their peers.

In addition to undergraduates, graduate students and early career postdocs, a small number of academics also attend as plenary speakers.

The 2014 EGI Student Conference on Ecology and Evolution will be held at the Department of Zoology, University of Oxford, on 18-20th of March.

This years plenary speakers include:

Julia Day (University College London) Zoe Davies (University of Kent) Dieter Lucas (University of Cambridge) Ian Owens (Natural History Museum, London) Nathalie Seddon (University of Oxford)

Deadline for abstracts 1st of February

For further details visit our website: http://-www.zoo.ox.ac.uk/egi/scee/ Sozos Michaelides <sozos.michaelides@bnc.ox.ac.uk>

HiroshimaU AmphibianConservation Mar27-28

Dear Sir/ Madam,

It is our immense pleasure to inform you that the Institute for Amphibian Biology of Hiroshima University, Japan is going to arrange an international symposium entitled “Frontiers in Amphibian Biology: Endangered Species Conservation and Genome Editing”. Noted that Institute for Amphibian Biology is a leading research institute in the world for conducting research and conservation of Amphibians and it develops a unique facility to breed and maintain many amphibians from Japan and from other parts of the world.

We have already confirmed participation of 10 renounced International scientists as invited speaker. Also we open the scope for all Amphibians Researchers

to present their work by poster presentation and noted that a limited number of Travel awards will be given for young scientists.

Some important information about the symposium-

ABHU International Symposium

-Frontiers in Amphibian Biology: Endangered Species Conservation and Genome Editing-

- Date: March 27-28, 2014

- Venue: Building E, Graduate School of Science, Hiroshima University, Higashi-Hiroshima Campus

- Registration: Pre-registration is not required to attend. Pre-registration is required to make a poster presentation, attend the social gathering, or join the backyard tour.

- Participation fee: Free (excluding social gathering)

- Applications for poster presentation and social gathering: The application deadline is February 20, 2014.

- Travel awards: We offer travel awards for young poster presentation applicants aged 40 years or under. Awards are available for about 20 presenters. The maximum award is 30,000 yen for presenters coming from Japan and 100,000 yen for presenters coming from overseas).

- Invited Speakers (alphabetically)

Amphibian Conservation

Dr. Koichi Goka (National Institute for Environmental Studies, Japan)

Dr. Robert Jehle (University of Salford, UK)

Dr. Masafumi Matsui (Kyoto University, Japan)

Dr. Miguel Vences (Braunschweig University of Technology, Germany)

Dr. Kelly Zamudio (Cornell University, U.S.A.)

Amphibian Genome and Genome Editing

Dr. Enrique Amaya (University of Manchester, UK)

Dr. Takuya Nakayama (University of Virginia, U.S.A.)

Dr. Hajime Ogino (Nagahama Institute of Bio-Science and Technology, Japan)

Dr. Masaki Taira (University of Tokyo, Japan)

Dr. Hui Zhao (The Chinese University of Hong Kong, Hong Kong China)

- Contact address and correspondence

The Office of IABHU International Meeting, c/o Masayuki Sumida

Institute for Amphibian Biology Graduate School of Science, Hiroshima University 1-3-1 Kagamiyama, Higashi-Hiroshima 739-8526, Japan

E-mail: amphsymp(at)hiroshima-u.ac.jp (Please use "@" instead of "(at)")

All the necessary informations and forms are available in the following website-

http://home.hiroshima-u.ac.jp/amphibia/-FronAmphBiol/FronAmphBiol/English_top.html
So I hereby request you to convey this message to your Society members and in the website of your Society so that participants from all over the world can join and share their experiences.

With regards

Masayuki Sumida, Ph. D.

Professor and Director Institute for Amphibian Biology Graduate School of Science, Hiroshima University, Higashihiroshima 739-8526, JAPAN

Fax- +81-82-424-0739

On his be half-

Mohammed Mafizul Islam (Ph. D.)

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Phone- +81-82-424-5284

MOHAMMED MAFIZUL ISLAM <mafizul77@hiroshima-u.ac.jp>

Leicester UK EMBOHumanEvolution April1-4 reminder

Abstract deadline approaching!

Register now for the EMBO Conference on Human Evolution in the Genomic Era: Origins, populations and phenotypes, to be held in Leicester, 1-4 April, 2014!

Invited speakers are:

Guido Barbujani Universita' di Ferrara, IT Ewan Birney European Bioinformatic Institute, UK Carlos Bustamante Stanford University School of Medicine, US Lounes Chikhi Instituto Gulbenkian de Ciência, PT Vincenza Colonna Institute of Genetics and Biophysics - ABT, IT Graham Coop UC Davis, US Anna Di Rienzo University of Chicago, US Richard Durbin Wellcome

Trust Sanger Institute, UK Pascal Gagneux UC San Diego, US Garrett Hellenthal University College London, UK Brenna Henn Stony Brook University, US Turi King University of Leicester, UK Tomas Marques-Bonet Institut Biologia Evolutiva (Universitat Pompeu Fabra/CSIC), SP Joanna Mountain 23andMe, US Mark Pagel University of Reading, UK Sohini Ramachandran Brown University, US Aylwyn Scally University of Cambridge, UK Mark Shriver Pennsylvania State University, US

For further details and instructions on how to submit an abstract and register, please visit: http://-events.embo.org/14-human-evo/index.html Spaces are limited, so please register soon if you want to attend!

Chiara Batini & Mark Jobling - embo2014 <embo2014humanevolution@gmail.com>

Marseilles 18thEBM Sep16-19 EarlyRegistration 2

Dear all

The early registration dead line for for The 18th evolutionary biology meeting at Marseilles is the 31st of January more info: http://sites.univ-provence.fr/evol-cgr/ best regards Pierre

Pierre PONTAROTTI <pierre.pontarotti@univ-amu.fr>

London GenmoicEra Apr2-3

Collections Based Research in the Genomic Era

A joint meeting of the Centre for Ecology and Evolution & the Linnean Society of London

2nd & 3rd April 2014 - Linnean Society of London

For details and registration visit www.linnean.org/-genomicera Collections-based research, conducted in Natural History Museums, Botanical Gardens and Zoos, has constantly re-invented itself in response to changing methods and technologies. Biological collections (e.g. museum, herbarium or living specimens) are at the front line of biodiversity research, informing taxonomy, evolution, conservation and sustainable livelihoods. As the genomic era dawns, generating DNA data at an unprecedented scale, collections-based researchers must adapt and respond to the new opportunities that these technologies present. This meeting will bring together genomics experts, collections-based researchers and curators to explore next generation sequencing methods. Sessions will range from practical aspects to applications in phylogenetics, museomics and conservation.

The Royal Botanic Gardens, Kew is a non-departmental public body with exempt charitable status, whose principal place of business is at Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB, United Kingdom.

William Baker <W.Baker@kew.org>

Paris SymmetryAsymmetry Apr3-4

Symposium on 'Symmetry and asymmetry in Biology'

National Museum of Natural History - Paris (France)

April 3rd and 4th

A two-day symposium on 'Symmetry and asymmetry in biology' will be held in the National Museum of Natural History of Paris (France) on April 3rd and 4th 2014.

Free registration and talk submission are now open at: https://www.mnhn.fr/fr/symmetry-and-asymmetry-biology-april-3rd-and-4th-2014 ***Overview***

Repetitive scheme in living organisms have been fascinating biologists, from the repetitive shapes constituting the spine of Vertebrates to flower symmetry. Multiple examples of symmetry and breaks in symmetry from molecules to organisms and even populations are raising the question of the underlying mechanisms of this regularity - and of these exceptions. The aim of this conference is to create a link among various fields - phylogeny, developmental biology, population genetics - which sometimes focuses in those questions at different levels.

Invited speakers

A Richard Palmer

AR Palmer is a professor of Biological Sciences at the university of Alberta. He obtained his PhD at the university of Washington, Seattle. His main area of research is morphological evolution with a special inter-

est on morphological asymmetries. His seminal papers on fluctuating asymmetry constitue the methodological reference worldwide in studies of developmental stability. His work has yielded valuable insights into the causes and adaptive significance of several striking examples of developmental plasticity and his studies of the development, genetics and evolutionary history of right-left asymmetry variation have yielded some of the strongest evidence to date for a phenotype-leads mode of evolution (sometimes called genetic assimilation) – a result that caught the attention of the Pharyngula blog. His lab continues to explore the interplay between developmental plasticity and evolution on both ecological time scales (via descriptive and experimental studies) and evolutionary time scales (via comparative studies).

Olivier Pourquier

Olivier Pourquié is an INSERM senior researcher at the Institut for Genetics and molecular and cellular biology in Strasbourg (France). He is interested in the mechanisms controlling the formation of the body of vertebrates during embryogenesis. In particular, he has been focusing on the process of axis elongation and on segmentation whereby a periodic series of anatomical structures such as vertebrae are formed during organogenesis. His goal is to understand the basic principles underlying these morphogenetic processes. His work relies on developmental biology studies in chicken, mouse and zebrafish embryos combining genetic approaches with genomic strategies such as transcriptomics or high throughput sequencing and bioinformatics as well as sophisticated in vivo imaging. He is also interested in applying his results to medicine, by exploring the molecular basis of spine patterning defects such as scoliosis in humans or by using regenerative medicine for cellular therapies of degenerative diseases such as Duchenne muscular dystrophy. During his talk, this specialist of muscles and vertebrae development will bring us a new light on the underlying developmental mechanisms involved in the right-left symmetry in Vertebrates.

Frederique Peronnet

Frédérique Peronnet is director of research at the CNRS and head of the team ≪ Epigenetic control of developmental homeostasis and phenotypic plasticity ≫ of the UMR 7622 Biologie du développement. She obtained her PhD in Paris in 1988 and her HDR in 1996. Her research mainly focus on the epigenetic regulation of development in Drosophila, particularly on the Polycomb and Trithorax complexes that maintain the structure of chromatin. Her recent research program aims at disentangling the complex molecular bases of developmental stability and fluctuating asymmetry, using the powerful molecular tools available in Drosophila melanogaster.

Menno Schilthuizen

At Naturalis Biodiversity Center, I hold a position as research scientist. Furthermore, I hold a professorship at Leiden University, and a research associateship at the Institute for Tropical Biology and Conservation at Universiti Malaysia Sabah. At the latter institute, I worked as an associate professor from 2000 until 2006. In addition to my scientific work, I have been active as a popular science writer since 1994. My personal drive is the endless diversity of life, which began when I was still a little boy, collecting bugs and botanising in our backyard. This childhood fascination morphed into a professional dedication to understanding the many facets involved in the evolution of species and the way communities of closely related species interact ecologically. The organisms I work with are mainly beetles and land snails, but I am not

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PortTownsend Washington EvoWIBO Apr25-27

We invite you to attend the 2014 EVO-WIBO Conference, which is a gathering of evolutionary biologists from across the Pacific Northwest. This meeting is held every other year and typically attracts 120-140 researchers for a fun weekend of presentations and discussions about all things related to evolutionary biology. The 2014 EVO-WIBO Conference will be held April 25th-27th, 2014, at Fort Worden State Park in beautiful Port Townsend WA. This year's keynote speaker will be Dr. John Postlethwait, who will present a talk entitled 'Gar Ãtoufée: Darwin's âliving fossil' and the origin of teleost genomes'.

For more information on the conference and how to register visit

http://blogs.uoregon.edu/evowibo/ We look forward to seeing you in Port Townsend!

â Bill

William A. Cresko, Ph.D. Director, Institute of Ecology and Evolution University of Oregon

wcresko@uoregon.edu

Portugal OccamsBeard Feb1

The Symposium of Occam's Beard: comedy, creativity, and critical thinking in science

Imagine a group of science lovers - both amateurs and professional scientists - with one goal: to create crazy, but coherent, theories, and support them with real data. This is the *Symposium of Occam's Beard*, a project founded by researchers from the Instituto Gulbenkian de Ciência and the Champalimaud Neuroscience Programme. The first symposium will take place on Saturday, February 1st at 16h, at the *Auditorium of the Champalimaud Centre for the Unknown* (Av. Brasília, Doca de Pedrouços, Lisboa, Portugal).

The *Symposium of Occam's Beard* aims to show the importance of critical thinking in science, by showing what happens if it is taken away. We hope this event reminds us of the power of hypotheses: it seems there is always data, even to back up the craziest hypothesis. We want to combat this trend by seeing how far we can push it.“ All theories presented at the symposium will be supported by real scientific data, but will that be enough to persuade the audience?

The program includes *eight talks, chosen for their interesting and humorous approach, based on solid data*. Detailed information about the speakers, consisting of scientists, science communicators, as well as one remarkable high school student, can be found at www.occamsbeard.com/speakers .The event will also include games and quizzes, and last for around 4 hours.

The event will be in English, and entrance will be free; however, seat reservation is recommended. Tickets can be reserved starting 25 January at noon via the website of the symposium at www.occamsbeard.com .Any remaining seats will be available at the door, and the symposium will be available through live streaming.

The Symposium of Occam's Beard is supported by the Fundação para a Ciência e a Tecnologia, as well as the Instituto Gulbenkian de Ciência, and the Fundação Champalimaud.

anamvleitao@gmail.com

PuertoRico SMBE Jun8-12 CallAbstracts GenomeEvolution

Dear Evoldir Community,

we would like to invite abstract submissions to a symposium entitled

“The Order of Things: How genome structure evolves”

as part of the SMBE 2014 annual meeting in Puerto Rico, June 8-12 2014.

In this symposium, we invite contributions investigating the impact of changes in genome structure in eukaryotic evolution. In particular, we are interested in theoretical and empirical studies on new and/or emerging model systems. Our symposium will address the evolutionary significance of genomic reorganization in a broad sense including (but not being restricted to) the emergence and turnover of sex chromosomes, karyotype evolution, polyploidization, segmental duplications, chromosomal rearrangements and the evolution of genome size. We are particularly interested in questions such as: Are changes in genome structure and synteny potential drivers of organismal diversification or rather mere by products thereof? What is the functional and phenotypic significance of genome structure evolution? How do sexual conflict in the genome, different types of selective regimes, and functional constrains influence gene order and contribute to the rise and fall of chromosomal structures? In the era of next generation sequencing, chromosome level genome assemblies are still more the exception than the rule. We, thus, also invite abstracts that feature methodological advance in this direction.

Confirmed invited speakers of the symposium are Mark Kirkpatrick (University of Texas at Austin) and Jeramiah Smith (University of Kentucky).

Contributed talks will be selected from abstracts submitted to the SMBE2014 website (https://mcidublin.conference-services.net/-authorlogin.asp?conferenceID=3958&language=en-uk.).

The abstract submission deadline is January 27, 2014.

Additional information about SMBE2014 can be found here: http://smbe.org/annual/2014/ The symposium is organized by Astrid Böhne, Walter Salzburger (both University of Basel), and Ingo Braasch (University of

Oregon).

We are looking forward to your contributions and a great meeting in Puerto Rico!

Kind regards,

Astrid, Ingo and Walter

Dr. Ingo Braasch

Institute of Neuroscience 1254 University of Oregon Eugene, OR 97403-1254

ibraasch@uoneuro.uoregon.edu

PuertoRico SMBE Jun8-12 EvolSystemsBiology

Dear Evoldir community,

We invite you to submit an abstract for the symposium

"Evolutionary Systems Biology of Networks"

as part of the SMBE 2014 annual meeting in Puerto Rico, June 8-12 2014. At this symposium, we aim to highlight contributions focussing on the fitness impact of biochemical reaction networks.

More broadly, evolution depends on molecular structures and functions, which were largely unknown when the basis for a mechanistic understanding of evolution was laid. Thus population genetics uses descriptive parameters like selection coefficients, 'hiding' unknown molecular functions. As resulting models are conditional on assumed values, much effort goes into estimating selection by empirical observation or inference from DNA sequences using specific evolutionary models. Results do not integrate easily the many mechanistic details known in molecular systems biology. Evolutionary systems biology aims to build a bridge between evolutionary biology and systems biology. Integrating rigorous models from both fields will improve our mechanistic understanding of evolution. Key aspects of fitness are affected by molecular interaction networks, which are modified by mutations that improve or degrade molecular functions. Understanding aspects of molecular networks important for fitness will boost a mechanistical understanding of mutational effects.

Confirmed invited speakers for this symposium are Patricia Wittkopp (University of Michigan) and Uri Alon (Weizmann Institute of Science).

Contributed talks will be selected from abstracts submitted to the SMBE2014 website: http://smbe.org/-annual/2014/ The abstract submission deadline is January 27, 2014.

Additional details and the latest updates about this symposium will be made available at: http:/-/evolutionarysystemsbiology.org/meeting/2014-SMBE/ Some financial support from SMBE is available for students and postdocs to travel to this symposium. Details on how to apply are available at the symposium website.

For questions about the symposium, please contact the organizers: Laurence Loewe (University of Wisconsin - Madison, loewe@wisc.edu) and Ryan Gutenkunst (University of Arizona, rgutenk@email.arizona.edu).

See you in Puerto Rico! Ryan and Laurence

rgutenk@email.arizona.edu

PuertoRico SMBE Jun8-12 OriginOfLife

Dear EvolDir members

We would like to announce the following symposium at the Society for Molecular Biology and Evolution meeting in Puerto Rico June 8th-12th:

The Origin and Evolution of Early Life

Major transitions during the early history of life pose several challenges, from the origin of genetic systems and protein translation, to the core components of all cells and the last universal common ancestor (LUCA), followed by the radiation of the major cellular lineages. This symposium will explore key events during early evolution and the methodological advances that are bringing new insights to this important, but still poorly understood, period of evolutionary history.

The topics to be considered will include the evolution and optimization of the genetic code and the molecules that implement it; the nature, genome and metabolic potential of LUCA; the relationships among the major cellular lineages, and the evolutionary processes underlying their diversification. Recent developments in phylogenetic modeling, ancestral sequence reconstruction, gene tree/species tree reconciliation, and phylogenetic networks all promise to shed new light on early evolution, and this symposium will welcome these and other approaches to these fascinating and enduring problems.

The symposium is organized by Martin Embley, Aaron Goldman, Laura F. Landweber, Steven E. Massey, Tom Williams

The deadline for abstract submissions is February 3rd

Steven E Massey Assistant Professor of Bioinformatics Biology Department, PO Box 23360 University of Puerto Rico - Rio Piedras San Juan PR 00931

Tel: 7875984859 (Cell), 7877640000 x7798 (Lab), x2556 (Office) Bioinformatics Lab NCN 343B, Office FB 246 E-mail: stevenemassey@gmail.com Web-page: www.scanmoment.org/-masseybioinformatics-UPR.html Steven E Massey <stevenemassey@gmail.com>

PuertoRico SMBE Jun8-12 Registration

Dear Colleagues,

Registration is now open for the SMBE conference to be held in Puerto Rico from the 8-12th of June 2014. We are happy to invite you to submit an abstract for the symposium:

Detecting selection in natural populations: making sense of genome scans and towards alternative solutions

Invited speakers:

Rasmus Nielsen, UC Berkeley, USA

Matthieu Foll, Université de Lausanne, SWITZERLAND

Details of the symposium are below, and we will be accepting abstract submissions until 27th January 2014.

Description:

The use of genome-wide screens to detect selection in natural populations is a popular pursuit. At the heart of this method lies the detection of outlier loci to uncover signatures of selection, yet these signatures are generally interpreted without questioning basic model assumptions. Evidence is accumulating that this may lead to erroneous conclusions due to false positives (through recombination hotspots, population stratification, endogenous incompatibilities) or false negatives (e.g. weak selection relative to migration or drift). An additional complication is that these methods ignore the fact that most selected loci may be involved in polygenic adaptation in which case theory would predict small changes in allelic frequencies. Together these challenges highlight the need to improve current methods by improving model assumptions, variance estimates of differentiation, and by integrating environmental, phenotypic and functional genomics. Alternative approaches to the "selective sweep paradigm" that consider a multi-locus (quantitative) genetics framework must also be considered.

In this context, the goal of the symposium is to advance the field by uniting researchers working on both improving genome scan approaches as well as alternative solutions. Given the current excitement to uncover signatures of selection this symposium will certainly be of interest to a broad range of researchers in the fields of genome biology and evolutionary biology.

To register and submit your abstract for this symposium, please follow the instructions on the congress website (http://smbe.org/annual/2014/).

See you in Puerto Rico!

Louis Bernatchez and Maren Wellenreuther *Maren Wellenreuther* (PhD, Assistant Professor) Department of Biology, Lund University SE-223 62 Lund, SWEDEN

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http://www4.lu.se/o.o.i.s/25872 *WORK HOMEPAGE PERSONAL HOMEPAGE http://marenwellenreuther.com/ maren.wellenreuther@gmail.com

PuertoRico SMBE Jun8-12 UndergraduateTravelAwards

2014 ANNUAL MEETING OF THE SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION

June 8-12, Puerto Rico

The Society for Molecular Biology and Evolution (SMBE) is pleased to make available 10 awards for undergraduate students to participate in a Mentoring and Diversity Program at the SMBE meeting (June 8-12, Puerto Rico). Five of these positions will be reserved for undergraduates from traditionally underrepresented groups in our scientific discipline.

The goals of this program are: (1) to provide students with the opportunity to experience the excitement of attending and presenting at an international scientific

conference, (2) to foster enthusiasm for molecular biology and evolution as well as a possible career in this field, and (3) to promote diversity at the SMBE annual meeting.

Eligibility: You must be an undergraduate student at the time of the application. It is not necessary to be registered for the meeting to apply for the Undergraduate Travel award.

Process: Selected undergraduates (10) will receive a travel award ($1500 domestic and $2000 international). Undergraduate students will present their work in the Poster Session.

All details about this program can be found on this web site :

http://smbe.org/annual/2014/scientific-program/-awards/ Please do not hesitate to forward this announcement to your students.

DEADLINE FOR ABSTRACT SUBMISSION: Feb. 3rd 2014

Laurent Duret Laboratoire Biométrie et Biologie Evolutive UMR CNRS 5558, Université Lyon 1 43 Bld du 11 Novembre 1918 69622 Villeurbanne cedex France

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PuertoRico SMBE14 AmericasPopHistory Jun8-12

Dear colleagues,

We are hosting a symposium at SMBE2014 in Puerto Rico (June 8-12) entitled "Genomic Perspectives on the Population History of the Americas " and invite you to submit abstracts for contributed talks here:

http://smbe.org/annual/2014/scientific-program/call-for-symposia/ The Americas were the last part of the world to be explored and occupied by humans. Despite having been studied extensively, the mode and tempo of the early migrations still remain a matter of debate. During the period of European colonization, the influx of other population groups - notably Europeans and Africans - changed the genetic make-up of the Americas forever and contributed to the medley of cultures that live there today. This unique make-up presents a major methodological challenge for reconstructing the region's population genetic history. However, recent advances in sequencing and analyzing modern and ancient DNA data, including modeling of complex demographic scenarios involving recent admixture events, have started to contribute to a better understanding of these different migratory processes and the population genetic history of present-day Latin Americans. The aim of this symposium is to bring together experts from modern population genetics and the field of ancient DNA to present and discuss the most recent findings on the peopling of the Americas and the demographic processes that shaped modern American populations.

Organizers: Carlos D. Bustamante, Anna Malaspinas, Juan C. Martínez Cruzado, Hannes Schroeder

The deadline for submissions is Monday, January 27th 2014.

We look forward to seeing you in San Juan!

Dr Hannes Schroeder Centre for Geogenetics Natural History Museum of Denmark University of Copenhagen Ãster Voldgade 5-7 DK-1350 Copenhagen

ERC Synergy Project NEXUS1492 Faculty of Archaeology Leiden University PO Box 9515, 2300 Leiden The Netherlands

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www.eurotast.eu www.nexus1492.eu Hannes Schroeder <hannes.schroeder@gmail.com>

PuertoRico SMBE AdaptationGenomics Jun8-12

Dear Evoldir Community,

we would like to invite abstract submissions to a symposium entitled

"Genomics of adaptation" as part of the SMBE 2014 annual meeting in Puerto Rico, June 8-12 2014. The specific symposium's abstract is below. Presentation abstracts need to be submitted by Jan 27th on the conference's website (http://smbe.org/annual/2014/).

Genomics of adaptation

Many species inhabit large geographical ranges and exhibit local adaptation to varying environmental conditions across these ranges. The recent genomics revolu-

tion has now provided a means to study the evolutionary processes that drive adaptation at the molecular level. High-throughput genome sequencing allows us to comprehensively survey genetic variation across species ranges and over multiple generations. Such studies can identify genes involved in adaptation to environmental variables, provide information about the demographic history of a species and illuminate the processes involved in range expansions and local adaptation. Exciting genomic results are beginning to emerge in a wide range of animal and plant taxa (e.g. Heliconius butterflies, cichlid fish, columbine flowers, monkeyflowers, etc.) that challenge our current understanding of how genomes diverge during adaptation and speciation. At the same time, developments in theory and modeling can give us insights into the processes of selection and drift across species ranges and about processes that occur when species inhabit new niches, e.g., during adaptive radiations. Disentangling the effects of demography, genetic drift and natural selection on genomic data remains a major challenge that requires bridging the gap between data and theory. This symposium will provide a venue for researchers studying the genomics of adaptation, empirically or theoretically, to come together and synthesize a new understanding of how adaptation and speciation drives patterns of genomic divergence. Confirmed invited speakers of the symposium are Graham Coop (UC Davis) and Scott Hodges (UC Santa Barbara).

Stephan Peischl Post-doc CMPG Institute of Ecology and Evolution University of Bern Baltzerstrasse 6 CH-3012 Bern Switzerland Phone: +41 31 631 30 36 Fax: +41 31 631 48 88 Email: stephan.peischl@iee.unibe.ch

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PuertoRico SMBE AsexualGenomeEvolAdapt Jun8-12

Conference: PuertoRico.SMBE_AsexualGenome_EvolAdapt_Jun8-12

We invite you to submit an abstract for poster and/or oral presentation in the symposium "Genome evolution and adaptation in asexual lineages" at the SMBE 2014 in Puerto Rico (8-12 June 2014, http://smbe.org/-annual/2014/).

Call for abstracts is open until 27 January 2014. Travel awards for postdocs and students are available (http:/-/smbe.org/annual/2014/scientific-program/awards/).

16. Genome evolution and adaptation in asexual lineages The prevalence of sexual reproduction among eukaryotes despite its costs is one of the major enigmas in evolutionary biology. Numerous ecological and genetic models, such as the Tangled Bank, the Red Queen, Muller's ratchet and Kondrashov's hatchet, suggest that sexuals can have an edge over asexuals in certain situations; furthermore, the observation that most asexual eukaryotes are recent offshoots scattered throughout the eukaryotic tree of life has led to the widespread hypothesis that asexuality represents an evolutionary "dead end" and that asexual lineages are bound to rapid extinction.

There are, however, some eukaryotic groups that have persisted for millions of years and diversified in the apparent absence of sex, such as bdelloid rotifers. To shed light on this paradox, the present symposium aims to explore mechanisms of genome evolution and adaptation that are specific to asexual lineages, including cancer cells.

Organizers: Jens Bast (J.F. Blumenbach Institute of Zoology and Anthropology, Göttingen, Germany) & Jean-François Flot (Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany)

Invited speakers (confirmed): Karine Van Doninck (University of Namur, Belgium) Michael Desai (Harvard University, USA)

jens.bast@biologie.uni-goettingen.de

PuertoRico SMBE BiochemMeetsEvolution Jun8-12

Dear Evoldir members,

SMBE abstract submission closes on Tue Jan 27. We would like to encourage submission to the symposium

"Biochemistry meets molecular evolution"

held as part of the annual SMBE meeting, in Puerto Rico June 8-12 2014. The invited speaker will be Nick Grishin (UT Southwestern, HHMI) speaking on "Evolution of protein spatial structures and functions".

Molecular evolution research is often focused on sequence analysis, treating genes and genomes as simple strings composed of letters A, C, G, and T. Yet these sequences represent real, three-dimensional molecules

with complex structure and function. Many of the most fundamental breakthroughs in our understanding of molecular evolution have come from extracting core findings from biochemistry and molecular biology and incorporating them into evolutionary models and techniques. For example, the structure of the genetic code gave us dN/dS tests. In more recent years, knowledge about RNA secondary structures, about nucleosome positioning signals, and about protein folding free energies have all contributed to our understanding of molecular evolution.

This symposium will bring together researchers working at the interface of biochemistry and molecular evolution, and contribute to an extended evolutionary synthesis that brings biochemistry and molecular biology into the core of evolutionary thought. The symposium will be a showcase for the emerging synthesis, highlighting the diversity of biochemical facts that are relevant to molecular evolution, and the ways in which molecular evolutionists can incorporate biochemical thinking into their work.

Contributed talks will be selected from abstracts submitted to the SMBE2014 website https://mcidublin.conference-services.net/-authorlogin.asp?conferenceID=3958 .With one invited speaker, we anticipate a minimum of 4 slots available for submitted 15 minute talks. Additional information about SMBE2014 can be found at http://smbe.org/-annual/2014/ . The symposium is organized by Joanna Masel (University of Arizona) and Clause Wilke (UT Austin). We are looking forward to your contribution.

masel@email.arizona.edu

PuertoRico SMBE Biodiversity Jun8-12

Dear Colleagues,

A symposium entitled “Timetrees and Global Biodiversity” will take place at SMBE 2014 (8-12 June) in San Juan, Puerto Rico.

’Biodiversity research’ is now at the intersection of molecular biology, ecology, evolution, and conservation, and driven by the recent availability of large, global data sets on organisms, especially molecular phylogenies of thousands of species calibrated to time (timetrees). The results inform us of not only the past history of biodiversity, including speciation, extinction, and diversification, but also the present composition and future distribution of species in a globally changing environment.

Presentations will be selected from the submitted abstracts at: http://smbe.org/annual/2014/scientific-program/call-for-symposia/ (submission deadline, 27 January)

We look forward to seeing you there!

Symposium Organizers: Blair Hedges & Julie Marin (Pennsylvania State University)

sbh1@psu.edu

PuertoRico SMBE ConservationGenomics Jun8-12

Dear Colleagues:

We wanted to bring your attention to a symposium on *Evolutionary and Conservation Genomics of Neotropical vertebrates *that we are organizing at the next meeting of the *Society of Molecular Biology and Evolution* (SMBE 2014) that will take place in San Juan Puerto Rico: http://smbe.org/annual/2014/). Our goal is to involve and represent a wide variety of projects focusing on vertebrate genomics in the Latin America, and the Caribbean, and to use this opportunity to facilitate networking and collaboration in the field. The deadline for abstract submission is January 27th. I hope that you will consider participating in our symposium.

Contributed talks will be selected from abstracts submitted to the

SMBE2014 website. To register your abstract, please follow this link: http://smbe.org/annual/2014/ . The deadline for submission is January 27th, 2014.

Evolutionary and conservation genomics of Neotropical vertebrates

The evolution of Neotropical vertebrates has captivated biologists since Darwin, Wallace and Simpson were inspired by the native fauna of the region while conceiving their groundbreaking work. South and Meso-America and the Caribbean contain some of the worlds most important biodiversity hotspots, featuring tens of thousands of endemic species in diverse environments ranging from rainforests to deserts. The region tops nearly every global conservation priority list regardless of taxo-

nomic group. Recent advances in next generation technologies have created exciting opportunities to use genomics in the study of Neotropical vertebrates. In this symposium, we will showcase studies on the molecular genetics, evolution and conservation of Neotropical vertebrates from vantage points made possible by technological advances, and unravel the interplay of evolutionary forces that govern their distribution or determine their survival. This symposium will feature researchers working on diverse vertebrate species from the region. We believe that this would make a nice contribution to the conference, notably by highlighting ongoing molecular evolutionary studies being conducted in Puerto Rico and in the rest of the Caribbean, as well as Central and South America.

Symposium Organizers: Eduardo Eizirik (eduardo.eizirik@pucrs.br), Alfred Roca (roca@illinois.edu) & Taras Oleksyk (taras.oleksyk@upr.edu)

Taras Oleksyk <oleksyk@gmail.com>

PuertoRico SMBE DetectingNaturalSelection Jun8-12

Dear Evoldir members,

SMBE abstract submission closes on Tue Jan 27. We would like to encourage submission to the symposium

Detecting selection in natural populations: making sense of genome scans and towards alternative solutions

Invited speakers:

Rasmus Nielsen, UC Berkeley, USA

Matthieu Foll, Université de Lausanne, SWITZERLAND

Description:

The use of genome-wide screens to detect selection in natural populations is a popular pursuit. At the heart of this method lies the detection of outlier loci to uncover signatures of selection, yet these signatures are generally interpreted without questioning basic model assumptions. Evidence is accumulating that this may lead to erroneous conclusions due to false positives (through recombination hotspots, population stratification, endogenous incompatibilities) or false negatives (e.g. weak selection relative to migration or drift). An additional complication is that these methods ignore the fact that most selected loci may be involved in polygenic adaptation in which case theory would predict small changes in allelic frequencies. Together these challenges highlight the need to improve current methods by improving model assumptions, variance estimates of differentiation, and by integrating environmental, phenotypic and functional genomics. Alternative approaches to the "selective sweep paradigm" that consider a multi-locus (quantitative) genetics framework must also be considered.

In this context, the goal of the symposium is to advance the field by uniting researchers working on both improving genome scan approaches as well as alternative solutions. Given the current excitement to uncover signatures of selection this symposium will certainly be of interest to a broad range of researchers in the fields of genome biology and evolutionary biology.

Contributed talks will be selected from abstracts submitted to the SMBE2014 website (http://smbe.org/-annual/2014/)

The symposium is organized by Louis Bernatchez and Maren Wellenreuther

Maren Wellenreuther (PhD, Assistant Professor) Department of Biology, Lund University SE-223 62 Lund, SWEDEN

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PuertoRico SMBE DoesPloidyMatter Jun8-12

Dear Evoldir members,

We would like to invite abstract submission to the symposium entitled: "Does Ploidy Matter? Ploidy Impacts on Evolutionary Processes" which is part of the annual SMBE meeting, in PuertoRico June 8-12 2014.

The masking hypothesis suggests that ploidy, the number of chromosomal copies present in a cell, affects the efficacy of selection. According to this hypothesis, selection is more efficient in haploids than in diploids, because recessive mutations are directly exposed to se-

lection in haploids, whereas their phenotypic effect can be masked in heterozygote diploids through dominant alleles. The masking hypothesis is central to the understanding of fundamental evolutionary processes such as the rate of adaptation, evolution of sex chromosomes, genetic incompatibilities, the evolution of the genetic load, inbreeding depression and that of basic Eukaryotic life cycles. Most of the theory regarding the masking hypothesis, however, assume that all "else is equal", which minimizes the impact of other processes that may be affected by ploidy levels. Therefore, the extent to which predictions of the masking hypothesis apply is poorly known.However, with the advancement of next generation sequencing, the ability to exploit comparative, experimental and population genomics approaches to test these theories is rapidly expanding. The present symposium aims to bring together experimentalists and theoreticians working on various levels of organization (unicellular and multicellular) to understand the effect of ploidy on the efficacy of selection and its implications on a broad set of evolutionary processes.

Confirmed invited speakers are: Sarah Otto (University of British Columbia) and Dmitry Petrov (Stanford University).

Contributed talks will be selected from abstracts submitted to the SMBE2014 website (https://mcidublin.conference-services.net/-authorlogin.asp?conferenceID=3D3958&language=en-uk.).

The abstract submission deadline is January 27, 2014.

Additional information about SMBE2014 can be found here: http://smbe.org/annual/2014/ The symposium is organized by Peter Szovenyi (University of Zurich), Simone Immler(Uppsala University), Sarah Otto (University of British Columbia) and Stephen Wright (University of Toronto).

We are looking forward to your contribution.

With kind regards, on behalf of the organizers

Peter

peter.szoevenyi@ieu.uzh.ch

PuertoRico SMBE Epistasis Jun8-12

Dear colleagues,

We invite you to submit an abstract for the symposium

'The role of epistasis in molecular evolution'

at the SMBE meeting in Puerto Rico, 8-12 June 2014.

Epistasis (nonadditive interactions between mutations) can influence the rate and direction of evolutionary change, and is therefore of longstanding interest to evolutionary geneticists. In molecular evolution, insights into the form and prevalence of epistasis are relevant to fundamental questions about the topography of adaptive landscapes and the predictability of mutational pathways through sequence space. In recent years, microbial experimental evolution studies have demonstrated how epistasis shapes the structure of the genotype-fitness map, and directed-mutagenesis studies have documented epistasis between mutant sites in the same protein, revealing the direct causes of genetic constraints on adaptation and shedding light on the selective accessibility of alternative mutational paths to high-fitness genotypes. The purpose of the proposed symposium is to showcase recent theoretical and empirical advances in our understanding of epistasis and its influence on evolutionary mechanism and process. Our aim is to showcase work that tackles big questions and motivates new research directions.

The confirmed invited speaker for this symposium is: Dan Weinreich (Brown University).

Contributed talks will be selected from abstracts submitted to the SMBE2014 website: http://smbe.org/-annual/2014/ The abstract submission deadline is 27 January 2014.

Symposium organizers:

Jay F. Storz (University of Nebraska, jstorz2@unl.edu)

Kristi L. Montooth (Indiana University, montooth@indiana.edu, University of Nebraska [as of summer 2014], kmontooth2@unl.edu)

We look forward to seeing you in Puerto Rico!

Jay Storz <jstorz2@unl.edu>

PuertoRico SMBE GeneOrigin Jun8-12

Dear colleagues

We invite you to submit an abstract for presentation in the symposium

How old is my gene? Large-scale analysis of gene origin and function

being held in conjunction with SMBE 2014, June 8 - 12 in Puerto Rico.

The origin of a gene relative to key transitions in species evolution provides clues about its functions, interactions, disease associations, and ecological distributions. Despite recent successes in gene age analysis, there are few established best practices for inferring gene origins and integrating this knowledge with other attributes of genes. The November (2013) Trends in Genetics article "How Old is My Gene?" (doi:10.1016/j.tig.2013.07.001) outlines some of the challenges and open questions in this emerging area.

The goal of this symposium is to promote a dialog on how best to define, quantify, and estimate gene age. We welcome

- studies that integrate gene origin analysis with other fields to address functional or ecological questions

- novel phylogenetic models and approaches for gene origin analysis

- abstracts that tackle issues in large-scale analyses of genes, e.g., of all genes in a genome or all genes that participate in the same pathway or process.

Abstracts should be no more than 400 words and must be submitted though the online system by MONDAY, JAN 27TH at: http://smbe.org/annual/2014/-scientific-program/call-for-symposia/ Please join us for an exciting symposium, bringing together researchers who develop methods for estimating gene age with researchers who investigate the relationship between gene age and function

See you in Puerto Rico! Tony, Dannie, and Maureen

Symposium Organizers:

John A. Capra (tony.capra@vanderbilt.edu), Center for Human Genetics Research and Dept of Biomedical Informatics, Vanderbilt University, Nashville, TN 37232, USA

Dannie Durand, (durand@cs.cmu.edu), Depts of Biological Science and Computer Science, Carnegie Mellon University, Pittsburgh, PA 15213, USA

Maureen Stolzer (mstolzer@andrew.cmu.edu), Dept of Biological Science, Carnegie Mellon University, Pittsburgh, PA 15213, USA

PuertoRico SMBE GeneticsCULTURE Jun8-12

Dear colleagues,

We would like to encourage you to apply for our upcoming symposium "*Joint analyses of genetic and cultural data*," which will be held at the June 2014 meeting of the Society for Molecular Biology and Evolution (*SMBE 2014*) in San Juan, Puerto Rico [http:/-/smbe.org/annual/2014/]. Talks will focus on the impact of cultural factors on genetic variation, and vice versa.

Symposium description:

Cultural factors X such as marriage customs, farming practices, and languages X can create population substructure, influence admixture, and place selective pressures on genetic variants. Joint analyses of genetic and cultural data can help us understand how cultural factors contribute to human genetic variation, and they can provide more precise inferences of demographic histories. This symposium aims to explore recent advances in the joint analysis of genetic and cultural data, as well as methodologies for performing these analyses. The work presented in this symposium will connect researchers who work on these questions and provide a basis for future research into the important role of culture in the evolution of populations.

This is likely to be a great meeting for anyone interested in human evolutionary history. This year, SMBE will host a number of symposia on topics related to human history, including the following sessions: Ancient Genomics, Genomic perspectives on the population history of the Americas, Genetics of Species Domestication, Human evolutionary biology, Out of Africa: Humans, commensals, pathogens, oh my!, and Joint analyses of genetic and cultural data.

Confirmed invited speaker is Dr Barry Hewlett.

The abstract submission deadline is January 27th, 2014.

We hope to see you this summer!

Ethan Jewett Nicole Creanza Oana Carja

Department of Biology Stanford University

Oana Carja <oana.carja@gmail.com>

PuertoRico SMBE GeneticsDomestication Jun8-12

I wanted to advertise the call for presentation abstracts

for a specific symposium (Genetics of Species Domestication) at SMBE 2014 this year in Puerto Rico (June 8-12th). The specific symposium's abstract is below. I believe presentation abstracts need to be submitted by Jan 27th on the conference's website (http://smbe.org/annual/2014/).

Many thanks! Bridgett

SMBE 2014 Symposium Abstract: Genetics of Species Domestication

The process of animal domestication is analogous to natural selection and provides many readily available systems that allow explorations of the genetic changes associated with rapid phenotypic alteration. In this symposium, we would like to discuss recent advances in the genetics of domestication. Specifically, our aim is to highlight recent studies that have both investigated the genetic changes that have accrued during the process of domestication, concomitantly with their correlation to various facets of the 'domestication syndrome', a suite of alterations in morphology, physiology, pigmentation, reproduction, and behavior.

Many studies have catalogued genetic variants under strong artificial selection in recent stages of domestication; however, we wish to see this symposium showcase some of the most dramatic findings of genome evolution as a consequence of species domestication.

Organizers: Bridgett vonHoldt, Carlos Driscoll

Bridgett vonHoldt Assistant Professor Princeton University Ecology & Evolutionary Biology M151 Guyot Hall Princeton, NJ 08544-2016 Office: 609-258-7021 vonholdt@princeton.edu http://www.princeton.edu/ ~ vonholdt "Bridgett M. vonHoldt" <vonholdt@princeton.edu>

PuertoRico SMBE InvertGenomes Jun8-12 DeadlineFeb3

Dear friends and colleagues,

This is just a friendly reminder that the abstract deadline for the 2014 SMBE meeting (Puerto Rico from June 8-12, 2014) has been extended to Feb 3. For more details please see - http://smbe.org/annual/2014/ Our symposium entitled "Establishing a "Global Invertebrate Genome Alliance" (GIGA) for Comparative Genomics" aims to bring together researchers with the ultimate aim to cooperatively sequence or analyse whole genomes and transcriptomes of approximately 7,000 selected invertebrates, with a focus on non-insect, non-nematode marine taxa. A white paper is available at the Journal of Heredity, which outlines GIGA's goals, data and methodological standards (http://jhered.oxfordjournals.org/content/105/1/1.full).

This symposium is organized by Jose V. Lopez, Todd Oakley, and Christian R Voolstra. It addresses modern genome technology with the history of life, and will be another step in helping the GIGA community to grow and exchange ideas in a molecular evolutionary context. We hope to see as many of you there as possible so that discussions of GIGA and related projects can continue.

Joe, Todd, I, and other SMBE symposia organizers look forward to receiving your abstracts.

Thanks,

Christian R Voolstra Assistant Professor of Marine Genomics PI Reef Genomics Red Sea Research Center KAUST University

christian.voolstra@kaust.edu.sa

PuertoRico SMBE PaleovirologyJun8-12

Dear Evoldir members,

We would like to invite abstract submission to a symposium entitled: "Paleovirology: Endogenous Viral Elements (EVEs) and their evolutionary impact" as part of the annual SMBE meeting, in Puerto Rico, June 8-12, 2014. The symposium abstract is below.

The genomes of most organisms consist of a substantial proportion of viral origin. This "fossil record" of viruses in genomes reveals the ancient history of viruses and allows us to gain some insight into host-virus interactions. Some viruses, such as retroviruses, integrate into the genome as an obligate step in their life cycle. However, the abundance of whole genome sequences from a number of different organisms reveals that it is not just retroviruses that integrate into genomes V other viruses can also become incorporated into the genome either by chance or as a dormant part of their life cycle. Recent research demonstrates that all known viral genomic structures using a variety of different replication/proliferation strategies are captured in this fossil record. This extends the range of paleovirology beyond just retroviruses to also include non-retroviral integra-

tions V collectively termed endogenous viral elements (EVEs). The impact of these insertions has been significant and varied, ranging from co-option of genes for the benefit of the host in some instances, to providing immunity against related viruses in others. This symposium will be an opportunity to bring together researchers from a diverse range of backgrounds, to advance our understanding and raise an awareness of the approaches being employed (lab, bioinformatics, and modelling) and analyses being undertaken to answer questions in this relatively new and rapidly developing field of study.

Confirmed invited speakers are: Harmit Malik (Fred Hutchinson Cancer Research Center). Contributed talks will be selected from abstracts submitted to the SMBE2014 website

The abstract submission deadline is January 27, 2014. Additional information about SMBE2014 can be found here: http://smbe.org/annual/2014/ Ravinder Kanda (symposium organiser) Department of Zoology University of Oxford The Tinbergen Building South Parks Road Oxford, OX1 3PS UK

Email: ravinder.kanda@zoo.ox.ac.uk

Ravinder Kanda <ravinder.kanda@zoo.ox.ac.uk>

Raleigh Evolution Jun20-24 MSITravelAward

Evolution 2014 MSI Faculty Travel Award

Are you a faculty member at a minority-serving institution (MSI)? Apply now for a travel award to attend Evolution 2014 from June 20-24 in Raleigh, NC (www.evolution2014.org).

The National Evolutionary Synthesis Center (NESCent - www.nescent.org), with support from the Society for the Study of Evolution, is pleased to announce travel awards for faculty from Minority Serving Institutions to attend Evolution 2014, as part of our continuing outreach efforts focusing on groups that are underrepresented in evolutionary science.

If you are a faculty member at an MSI, HBCU or other institution with significant enrollment of underrepresented minority students, you are encouraged to apply. Funds are available to cover conference registration, travel, food and lodging.

This award is intended to provide MSI faculty with an opportunity to present original research in evolution, systematic biology, evolutionary genomics/informatics, evolution education/outreach or other disciplines typically represented at the Evolution meetings. As such, your application must include a talk/poster title and abstract. In addition, you will be asked to provide a brief (1 page) statement describing how this award will contribute to your professional/scientific development, as well as provide benefit to your students and institution.

To apply, please visit www.nescent.org/-Evo2014facultyapp Application Deadline: March 31st, 2014 (Awards will be announced by April 4th, 2014)

For more information, please contact Dr. Jory Weintraub (jory@nescent.org)

Jory P. Weintraub, PhD Assistant Director, Education & Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200, Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Email: jory@nescent.org Skype: jory.weintraub

"Weintraub, Jory P" <lviscrst@live.unc.edu>

Raleigh Evolution Jun20-24 UndergradDiversity

Undergraduate Diversity at Evolution 2014

We are pleased to announce an undergraduate travel award to bring talented and diverse undergraduates to the Evolution meetings this June 20-24 in Raleigh, NC (www.evolution2014.org). For the 12th year in a row we will fly a cohort of undergraduates from throughout the US and Puerto Rico to present a poster at the meetings, receive mentoring from graduate students, postdocs and faculty, and participate in a career-oriented 'Undergraduate Futures in Evolutionary Biology' panel and discussion. The program covers the costs of travel, registration, food and accommodation at the meetings.

The application deadline is Monday, April 14th, and decisions will be announced by Monday, April 21st. Applications are welcomed from all undergraduates, and the admissions goal is to create a diverse pool of students.

An overview of the program and student eligibility, and a link to the online application can be found at:

www.nescent.org/eog/undergraddiversity Applications

consist of a short statement of interest, a letter of recommendation and the title and abstract of the poster to be presented.

In addition, we will be soliciting names of graduate students, postdocs and faculty members who would like to serve as mentors during the meetings. Mentors meet with pairs of students and attend talks with them, introduce them to colleagues, network and generally make the meetings a welcoming place for them. Although costs are not covered for mentors it is an unusually rewarding experience. Contact Richard Kliman (rmkliman@cedarcrest.edu) if you are interested in serving as a mentor.

For inquires contact one of the organizers:

Jory Weintraub - jory@nescent.org

Richard Kliman - rmkliman@cedarcrest.edu

Scott Edwards - sedwards@oeb.harvard.edu

Jory P. Weintraub, PhD Assistant Director, Education & Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200, Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Email: jory@nescent.org Skype: jory.weintraub

"Weintraub, Jory P" <lviscrst@live.unc.edu>

Raleigh NorthCarolina Evolution2014 Jun20-24

Dear colleagues

This year, the annual joint conference of ASN, SSB and SSE will be held in Raleigh, North Carolina from 20 - 24 June 2014. As in past years, the conference will be held in tandem with iEvoBio, which will run on 24 and 25 June.

You will be able to register for either or both conferences in February, but you can already check out our website (www.evolution2014.org) for all current information about the meeting, including registration and other costs, accommodation options, pre- and post-conference events and symposia.

The program lineup is exciting and we are expecting a large number of attendees. We therefore recommend that you book your accommodation now, if you know that you will be attending the conference.

We will send out another announcement once the registration site is live. Until then, if you have questions, please email organizer@nescent.org.

We look forward to meeting you in Raleigh, and learning about your research!

Allen Rodrigo Director, NESCent Chair, Evolution 2014 Organizing Committee

a.rodrigo@nescent.org

Roscoff Viral Emergence Evolution Apr2-6

New deadline for registration: Jan 22, 2014

>From emerging to pandemic viruses: interplay between host ecology and viral evolution

April 2-6, 2014, Roscoff (Brittany, France)

http://www.mivegec.ird.fr/monod/-CJM_Regoes_en.htm Confirmed speakers

ALIZON Samuel (Montpellier, France) - Vice-chairperson (samuel.alizon@cnrs.fr) ARTS Eric (Cleveland, USA) ASQUITH Becca (London, UK) BENKIRANE Monsef (Montpellier, France) BLANC Stephane (Montpellier, France) BONHOEFFER Sebastian (Zurich, Switzerland) CHARBONNEL Nathalie (Montpellier, France) CLAVERIE Jean-Michel (Marseille, France) COBEY Sarah (Chicago, USA) CUNNINGHAM Andrew (London, UK) DE LAMBALLERIE Xavier (Marseille, France) ELENA Santiago (Valencia, Spain) FRASER Christophe (London, UK) GANDON Sylvain (Montpellier, France) GAUDIN Yves (Gif-sur-Yvette, France) GESSAIN Antoine (Paris, France) HAMPSON Katie (Glasgow, UK) JIGGINS Franck (Cambridge, UK) KOSKELLA Britt (Exeter, UK) LEVIN Bruce (Atlanta, USA) LLOYD-SMITH James (Los Angeles, USA) MARTIN Darren (Cape Town, South Africa) PRANGISHVILI David (Paris, France) PYBUS Oliver (Oxford, UK) REGOES Roland (Zurich, Switzerland) - Chairperson (roland.regoes@env.ethz.ch) TURNER Paul (New Haven, USA) VAN BOVEN Michiel (Bilthoven, Netherlands) VIGNUZZI Marco (Paris, France) WEAVER Scott (Galveston, USA) WIMMER Eckard (Stony Brook, USA)

Emerging viruses are recognized to be a threat not only to human health but also to activities, such as crop or cattle farming, and even to endangered species. This Jacques Monod conference will study virus evolution and emergence through an original perspective by fo-

cusing on where viruses thrive. A first series of lectures will present virus outbreaks in the wild, ranging from 'classical' topics (ebola in humans) to more unusual viruses (viruses infecting Archae or viruses infecting... viruses). A second series of lectures will present experimental results on outbreaks, with a particular focus on bacteriophages, which are particularly amenable to experimental evolution approaches. Finally, the third series of lectures will focus on deciphering the dynamical processes that can lead to outbreaks of new viruses. Overall, this conference stands out as one of the few that gathers researchers, who use different approaches (molecular biology, experimental evolution, mathematical modeling) and work on viruses infecting a wide variety of hosts (animals, plants, bacteria, Archae, viruses) but who are all interested in virus emergence.

Registration fee (includes board and lodging, i.e. 4 nights, breakfeast and 6 meals)

420 EUR for PhD students 600 EUR for other participants

Application for registration

The total number of participants is limited to 115 and all participants are expected to attend for the whole duration of the conference. Selection is made on the basis of the affinity of potential participants with the topics of the conference.

Scientists and PhD Students interested in the meeting should send: 1. a short curriculum vitae 2. the list of their main publications for the 3 last years 3. the abstract of their presentation to the Chairperson of the conference (roland.regoes@env.ethz.ch) before the deadline.

Except in some particular cases approved by the chairperson, it is recommended that all selected participants present their work during the conference, either in poster form or by a brief in-session talk. The organizers choose the form in which the presentations are made. No payment will be sent with application. Information on how and when to pay will be mailed in due time to those selected.

Sponsors: CNRS, INSERM, IRD, FEMS, REID, ESV

Please do not hesitate to forward this announcement to any collaborators who might be interested.

http://www.mivegec.ird.fr/monod/-CJM_Regoes_en.htm samuel.alizon@cnrs.fr

RoySoc London PhylogenyExtinction Mar10-11

Dear Colleague,

You are warmly invited to attend a Royal Society scientific discussion meeting.

Phylogeny, extinction risks and conservation < http://-/royalsociety.org/events/2014/phylogeny-extinction-conservation/ > 10 - 11 March 2014 The Royal Society, London

Register now < http://royalsociety.org/events/2014/-phylogeny-extinction-conservation/ >

More information

The integration of phylogenetic information with metrics of extinction risk provides powerful tools for the conservation of phylogenetic diversity. This meeting will present advances and comparative analyses of methodologies used to support conservation efforts. Speakers include Professor Keith Crandall, Dr Katrin Vohland and Dr Sven Buerki.

For more information please contact Camilla Tham at events@royalsociety.org or on 020 7451 2213.

Please feel free to pass this on to any potentially interested colleagues or students.

The Royal Society, 6-9 Carlton House Terrace, London SW1Y 5AG Registered Charity No 207043

"Tham, Camilla" <camilla.tham@royalsociety.org>

Swiss Alps Systems Evolutionary Genetics May18-22

###Deadline for Abstract submission / Registration is February 15th 2014###

Conference / Registration website: http://-sge2014.epfl.ch/ We are pleased to announce our conference dedicated to discussing recent advances in systems and evolutionary genetics. The principle topics will revolve around understanding the molecular and evolutionary mechanisms underlying genomic variation

and how this variation results in phenotypic differences between individuals. We can only accommodate 80 participants - so please register early!

CONFIRMED SPEAKERS Johan Auwerx Doris Bachtrog Brian Charlesworth Andy Clark Bart Deplancke Denis Duboule Laurent Excoffier Jonathan Flint Julien Gagneur Hopi Hoekstra Jeffrey Jensen Sandy Johnson Laurent Keller Ben Lehner Aldons Lusis Trudy Mackay Benjamin Prud'homme Molly Przeworski Guy Sella Greg Wray

ORGANIZERS: Jeffrey Jensen (jeffrey.jensen@epfl.ch) http://jensenlab.epfl.ch/ Bart Deplancke (bart.deplancke@epfl.ch) http://deplanckelab.epfl.ch/ jeffrey.jensen@epfl.ch

TucsonArizona DeepGenomics Apr3-5

We are pleased to announce the National Science Foundation's Integrative Graduate Education and Research Traineeship (NSF-IGERT) Symposium on Deep Genomics on April 3-5, 2014 in Tucson, Arizona.

Symposium website: http://-www.genomics.arizona.edu/meeting.html The University of Arizona IGERT Program in Comparative Genomics is sponsoring an international meeting on Deep Genomics. The symposium's theme this year encompasses broad scale comparative inferences in the three areas of our training program, including comparative and evolutionary genomics of divergent species, genomics of development, traits, and related interaction networks originating early in evolutionary history, and computational challenges associated with genomics at a broad phylogenetic scale. The meeting will take place at the Marriott University Park Hotel adjacent to the University of Arizona campus in Tucson on Thursday-Saturday, April 3-5, 2014. The format of the meeting will allow considerable time for informal discussion and interaction among participants. Participation by graduate students and postdoctoral fellows is strongly encouraged, and discounted rates for registration will be available.

REGISTRATION Early registration deadline: March 15, 2014 Faculty: $150, Students and Postdocs: $75

Late registration deadline: March 30, 2014 Faculty: $175, Students and Postdocs: $90

KEYNOTE SPEAKER Kenneth Wolfe - University College Dublin, Ireland

CONFIRMED SPEAKERS Robert Beiko - Dalhousie University, Canada William Cresko - University of Oregon Miklos Csuros - Universite de Montreal, Canada Patrick Degnan - University of Illinois Dannie Durand - Carnegie Mellon University Veronica Hinman - Carnegie Mellon University Erin Kelleher - University of Houston Junhyong Kim - University of Pennsylvania Li-Jun Ma - University of Massachusetts Michael Nodine - Gregor Mendel Institute, Austria Robert Reed - Cornell University Shin-Han Shiu - Michigan State University Joseph Thornton - University of Chicago Travis Wheeler - HHMI Janelia Farm

POSTER SESSION The symposium will feature a poster session. Please refer to the website for more information: www.genomics.arizona.edu/-meeting.html Please contact Dr. Michael Sanderson, sanderm@email.arizona.edu, with all scientific queries. Please contact Mrs. Pennie Liebig, genomics@email.arizona.edu, with all registration or administrative queries.

We hope to see you in April!

genomics@email.arizona.edu

UBremen EvolBiolGraduates Mar19-21

Graduate Meeting Evolutionary Biology 2014

The meeting takes place March 19-21 2014 at Bremen University, Germany

https://sites.google.com/site/evolgradmeeting2014/
Dear colleagues,

the Evolutionary Biology study group of the German Zoological Society (DZG) is pleased to announce the 19th DZG evolutionary biology graduate meeting, to be held from March 19 to 21, 2014 at the University of Bremen.

The conference topic "plasticity" addresses a variety of questions from organism to populations, in the lab or in the field. Current insights are given by Gabriele Gerlach (Universität Oldenburg, D), Marcel Visser (NIOO, Wageningen, NL), and Tadeusz Kawecky (Université de Lausanne, CH).

If you are a graduate student, Master student, or young PostDoc, and your research is connected to plasticity or

genetic diversity, please don't hesitate to participate. This meeting gives you the opportunity to meet your peers and to discuss your research in a friendly atmosphere.

If you are a supervisor of graduate students, Master students, or young PostDocs, please forward this message to those that might be interested.

We also offer a small statistics workshop in addition to the regular meeting, to help you improving your skills in data analysis. There will be two parallel sessions, either on the meaning of D- and GST-values for population genetic studies, held by Gabriele Gerlach (University of Oldenburg), or on generalized linear models as an alternative to non-parametric tests and data transformation, given by Thomas Hoffmeister (University of Bremen).

The conference fee is euro 20,- (and it's free for members of the DZG).

We hope to welcome you soon in Bremen!

On behalf of the organizing committee,

Andra Thiel

For more information please visit our website https://-sites.google.com/site/evolgradmeeting2014/ Registration deadline: February 14, 2014

Dr. Andra Thiel

Population and Evolutionary Ecology FB 02, Institute of Ecology University of Bremen D-28334 Bremen

fon ++49-421-218-62937 fax ++49-421-218-62949

email: thiel@uni-bremen.de

http://www.popecol.uni-bremen.de

UGoettingen SizeShape Apr2-4

Dear Colleagues,

we are pleased to announce that the registration for the symposium "Size and Shape - Integration of morphometrics, mathematical modelling, developmental and evolutionary biology" is open. The registration will be open until all slots are taken. Note that the number of participants is limited to 60 and slots will be given on a first-come, first-served basis!

*Dates: Wednesday, April 2nd - Friday, April 4th, 2014

*Venue: Georg-August-University Göttingen Ernst Caspari-Haus (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

*Scope of the Symposium: This symposium attempts to bring researchers from various research fields together to foster interaction and fruitful discussions about the status and the future of research on size and shape related topics. If you work on a project aiming to understand how size and/or shape of complex organisms or organs is regulated, your input is highly appreciated!

*Topics covered: Geometric morphometrics Body size regulation Mathematical modelling Developmental Biology Evolutionary Biology

*Confirmed speakers: Arkhat Abzhanov (Havard University, USA) Fernando Casares (CABD, Sevilla, Spain) Dagmar Iber (ETH Zurich, Switzerland) Jukka Jernvall (University Helsinki, Finland) Christian Peter Klingenberg (University Manchester, UK) Alistair P. McGregor (Oxford Brookes University, UK) Philipp Mitteröcker (University Vienna, Austria) Armin Moczek (Indiana University, USA) Lynn M. Riddiford (Janelia Farm, Ashburn, USA) Alex Shingleton (Michigan State University, USA) Richard S. Smith (MPI Plant Breeding Research, GER) Diethard Tautz (MPI Evolutionary Biology, GER)

*Registration and Abstract submission: http://-www.evolution.uni-goettingen.de/registration.html *Registration fee: payment via bank transfer: 195 EUR payment via credit card: 201,44 EUR

*For more information please visit: http://-www.evolution.uni-goettingen.de/ In case of questions, feel free to contact: nposnie[at]gwdg.de

We are looking forward meeting you in April!

Nico Posnien Georg-August-University Göttingen Johann-Friedrich-Blumenbach Institute for Zoology and Anthropology Department of Developmental Biology Ernst-Caspari-Hause (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

Phone: +49 (0) 55139 20817 E-mail: nposnie[at]gwdg.de

nico.posnien@gmail.com

UKonstanz PopBio May29-31

dear all,

The 27th Conference of the Plant Population Biology

Section (PopBio) of the Ecological Society of Germany, Austria and Switzerland (GfÖ) will be held at the University of Konstanz (Germany) from 29th to 31st May 2014.

PopBio is the annual international meeting for people working in the field of plant population biology and ecology, and is one of the major meetings in this field in Europe. More information can be found at http://-cms.uni-konstanz.de/popbio-2014/ . best wishes, Mark van Kleunen

Mark van Kleunen <mark.vankleunen@uni-konstanz.de>

Venezuela ConservationGenetics May5-9 reminder 2

Spanish and Portuguese versions follow

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THERE'S STILL TIME! Deadline for abstract submission EXTENDED until January 31, 2014.

First Latin American Conference on Conservation Genetics

In celebration of its tenth birthday, The Red de la Genética para la Conservación, or ReGeneC, announces the First Latin American Conference on Conservation Genetics, in Estado Vargas, Venezuela, May 5-9, 2014. See http://www.regenec.org/taller/may2014/ for recent updates.

Confirmed plenary speakers include: Dr. Jonathan Ballou, Smithsonian Institution, USA Dr. Jesús Maldonado, Smithsonian Institution, USA Dr. Cristina Miyaki, Universidade de Sao Paolo, Brazil Dr. Andrea Premoli, Universidad del Comahue, Argentina Dr. Antonio Solé-Cava, Universidade Federal do Rio de Janeiro, Brazil

We welcome abstracts for talks or posters presenting original scientific work from across the region, focused on using genetic tools to solve conservation problems in Latin America:

http://www.regenec.org/taller/may2014/-resumenes.php The official languages of the conference will be Spanish and Portuguese.

We have extended the deadline for submitting abstracts to Jan 31 to assist the many people who have expressed interest in attending, but need more time to secure funds to ensure participation.

For full conference schedule, including pre- and post-conference courses, ReGeneC alumni round table, symposia/fora, and details about conference contributions to a special issue in the Journal of Heredity, see our website

We look forward to seeing you in May!

- The Conference Organizing Committee

ReGeneC is a network of researchers and conservation practitioners from across Latin America dedicated to supporting the growth and development of conservation genetics in the region: http://www.regenec.org/
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!TODAVIA HA CHANCE! La fecha límite para la recepción de resúmenes ha sido EXTENDIDA hasta el 31 de enero de 2014.

Primer Congreso Latinoamericano de Genética para la Conservación

En el marco de la celebración de su décimo aniversario, la Red de la Genética para la Conservación, o ReGeneC, anuncia el primer Congreso Latinoamericano de Genética para la Conservación, en el estado Vargas, Venezuela, el 5-9 de mayo de 2014. Ver http://-www.regenec.org/taller/may2014/ para recientes actualizaciones.

Como conferencistas confirmados tenemos a: Dr. Jonathan Ballou, Instituto Smithsoniano, EEUU Dr. Jesús Maldonado, Instituto Smithsoniano, EEUU Dra. Cristina Miyaki, Universidade de Sao Paolo, Brasil Dra. Andrea Premoli, Universidad del Comahue, Argentina Dr. Antonio Solé-Cava, Universidade Federal do Rio de Janeiro, Brasil

Se encuentra abierta la recepción de resúmenes para presentaciones orales o en forma de cartel de trabajos científicos desarrollados en América Latina, enfocados en el uso de herramientas genéticas para solventar problemas en conservación:

http://www.regenec.org/taller/may2014/-resumenes.php Los idiomas oficiales del congreso serán castellano y portugués.

Se extendió la fecha límite para entregar resúmenes hasta el 31 de enero para ayudar a los muchos que nos han expresado interés en asistir, pero necesiten tiempo adicional en la búsqueda de fondos para asegurar su participación.

Para consultar el cronograma completo del congreso, los cursos pre- y post-congreso, las actividades de ex-estudiantes de los cursos ReGeneC, los simposios/foros y los detalles sobre cómo ser parte de un número

especial del Journal of Heredity, les invitamos visitar nuestro sitio web: http://www.regenec.org/taller/-may2014/ Les esperamos en mayo! - El comité coordinador ReGeneC es una red de investigadores y otras personas trabajando en la conservación de América Latina, dedicada al apoyo del crecimiento y desarrollo de la genética para la conservación en la región: http:/-/www.regenec.org/ *****

LEMBRETE: O prazo para submissão de resumos foi PRORROGADO até 31 de janeiro de 2014

Primeiro Congresso Latinoamericano de Genética para a Conservação

Entre as comemorações de seu décimo aniversário, a Rede de Genética para a Conservação, ReGeneC, anuncia o primeiro Congresso Latinoamericano de Genética para a Conservação, no estado de Vargas, Venezuela, de 5 a 9 de maio de 2014. Veja a

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York UK InsectGenomics Aug3-8

Call for speakers:

INSECT GENOMICS at the Royal Entomological Society

We are looking for speakers for a symposium on insect genomics at the annual meeting of the Royal Entomological Society from 3rd - 8th August 2014, to be held in the beautiful city of York. This follows on from the highly successful Insect Genomics Special Interest Group meeting in Cambridge in 2012.

The symposium aims to highlight the insights that can be gained by using genomic techniques in all aspects of entomology, and to bring together genome biologists with entomologists to encourage new uses of genomics techniques. We therefore encourage submissions from anyone using genomics approaches in any insect system.

For more details and an abstract submission form see http://www.royensoc.co.uk/meetings/-20140803_ece2014.htm Chris Jiggins Reader in Evolution and Biological Diversity Department of Zoology University of Cambridge Tel: (+44)(0)1223 769021 Mob: (+44)(0) 7549-524-481 http://-www.heliconius.org/ http://heliconius.zoo.cam.ac.uk/ Fellow of St John's College, Director of Studies in Biological Sciences Cambridge, UK. CB2 1TP

cj107@hermes.cam.ac.uk

York UK InsectVirusCoevolution Aug3-8

###Deadline for abstract submission is the 25th January 2014###

'Insect-virus interactions: Molecular biology, Ecology and Evolution' at the European Congress of Entomology in York, UK on the 3rd-8th August 2014.

The Keynote speaker for the session is Jean Luc Imler (CNRS, Institut de Biologie Moléculaire et Cellulaire, France http://www-ibmc.u-strasbg.fr/ridi/-profil.php?equipe_id=13).

The congress as a whole promises to have some exciting sessions with related sessions on various aspects of insect-parasite interactions (immunology, symbionts, genomics, ecology and evolution), and plenary speakers in related fields to this symposium (Bruno Lemaitre - Ecole Polytechnique Federale and Nancy Moran - Yale University). For the draft programme see: www.ece2014.com . This session will bring together an exciting mix of evolutionary bilogists, molecular biologists and ecologists to understand the ways in which viruses shape insect function and evolution.

Deadline for abstract submission is the 25th January 2014. To submit an abstract for a talk/poster please email b.longdon@gen.cam.ac.uk with the subject 'ento14 virus symp' including a completed abstract form (form found here http://goo.gl/mM6S40). Registration and other info can be found here: www.ece2014.com Each talk = 12 min + 3 min questions. Presenters not offered talks may present posters.

Postgraduate students are eligible to apply for assistance from the RES to attend the meeting: http://www.royensoc.co.uk/awards/-ORF_and_CPF_Grants.htm Poster info:

In addition to the regular A0 poster size (841 x 1189 mm, portrait orientation) we will be adopting a second poster format of so-called essence poster. This is an A3 poster presenting preliminary data, data that need to be discussed more informally or are an outlook

of a project. The advantage of these essence posters is that every participant will be able to present something, which is important as funding for congress participation is often available only if something is being presented.

Session organisers: Ben Longdon, Frank Jiggins and Darren Obbard.

bjl48@hermes.cam.ac.uk

Yosemite Symbiosis May3-4

Dear Colleagues,

This is a reminder that early-bird registration (Jan 15, 2014) for the Yosemite Symbiosis Conference (May 3-4, 2014) is fast approaching. The meeting can only accommodate 50 participants. Registration is first come, first served with priority given to those presenting.

Keynote speaker: Dr. John Pringle from Stanford University. Title: Aiptasia, a model system for dinoflagellate-cnidarian symbiosis

Link to meeting information: http://medinalab.org/-new/2014symbiosis We will let you know soon after Jan 15th if your registration was successful so you can proceed with your payment.

This year, the registration is handled by the UC NRS Wawona station director, Dr. Becca Fenwick <bfenwick@ucmerced.edu>. Please direct questions to her about registration and payment.

See you in Yosemite!

Monica Medina (Penn State University) <momedinamunoz@gmail.com> Joel Sachs (UC Riverside) <joel.sachs@ucr.edu> Becca Fenwick <bfenwick@ucmerced.edu>

Please consider adopting the Email Charter! http:/-/www.emailcharter.org/index.html Monica Medina Associate Professor Department of Biology Penn State University 326 Mueller Lab University Park, PA 16802 momedinamunoz@gmail.com monicamedina@psu.edu www.medinalab.org office: 814-867-2958 lab: 814-867-2959 fax: 814-865-0768

Monica Medina <momedinamunoz@gmail.com>

GradStudentPositions

CharlesU EvoluitonBirdSong

PhD position available from October 2014

Ecological and evolutionary significance of convergence in bird song: male and female responses to mixed singing in hybridizing nightingales

Charles University in Prague, Department of Ecology

Project background: Vocalization is important for maintenance of reproductive barriers in many bird species. Interspecific copying of acoustic signals nevertheless frequently occurs, and its ecological and evolutionary significance is still insufficiently understood. The aim of the PhD project is to evaluate potential adaptive value of this phenomenon in our intensively studied system, the contact zone of two hybridizing sister species of nightingales (Luscinia megarhynchos and L. luscinia). In sympatry, most L. luscinia males incorporate songs of L. megarhynchos in their repertoires but not vice versa. The student will test in field experiments the possible implications of this asymmetric song convergence: interspecific territoriality, mating preferences and hybridization. Playback experiments and bioacoustic analyses will show how males of both species respond to the mixed song in contrast to the pure species-specific song. Experiments on female preferences will test how mixed song is perceived by potential mates in both species. Detailed genomic analyses performed in parallel with this PhD project, will allow us to put field results into evolutionary context. For more information, visit: http://web.natur.cuni.cz/-˜radkas/index.php?page=opportunities Eligibility: We expect a motivated student with good experience in field ornithology, able (after some training) to work independently in harsh field conditions. The ideal candidate for this PhD position is interested in both ecology and evolutionary biology, and is willing to learn new methods (experience of bioacoustics is a plus). He/she must have finished the MSc. (or equivalent) by September 2014 at the latest.

Time and place: The student will work in a young team based at the Faculty of Science, Charles University in Prague, Czech Republic. The project will be conducted in close collaboration with Freie Universität Berlin, Germany. Fieldwork will be conducted in Poland, Czech Republic and Germany. The position is available for up to four years, starting in October 2014.

Salary: The PhD candidate's net monthly income will start at 16.500 CZK (ca 610 EUR) in the first year, and may progressively increase with experience and achievements during the study. (Note that living expenses in the Czech Republic are generally lower than in Western European countries.)

Research team: Tereza Petrusková (Department of Ecology, Charles University in Prague) - supervisor JiÅí Reif (Institute for Environmental Studies, Charles University in Prague) - co-supervisor Adam Petrusek (Department of Ecology, Charles University in Prague) Radka Reifová (Department of Zoology, Charles University in Prague) Silke Kipper (Freie Universität Berlin)

How to apply: If interested, send a motivation letter, CV, publication list, title or abstract of Master (Diploma) thesis, and contact details of 2-3 senior scientists that can provide references on you in a single PDF file to tereza.petruskova@natur.cuni.cz until February 20, 2014. Pre-selected candidates will be encouraged to submit an official application to the university.

petrusek@natur.cuni.cz

CharlesU PlantReproductiveEvolution

PhD position on Evolutionary and ecological significance of apomictic reproduction in vascular plants available at the Department of Botany, Charles University in Prague, Czech Republic

Project description Asexually reproducing organisms (i.e. agamosperms producing seeds without meiosis) are considered to be less adaptive than their sexually reproducing counterparts as they are constrained by reduced genetic variation. Nevertheless, it has been observed that many clonal agamospermic species are able to occupy larger ranges than their sexual relatives, a pattern which is called 'geographical parthenogenesis'. Various hypotheses (e.g. superior colonization capacity through uniparental reproduction, metapopulation hypothesis, more efficient niche exploitation) have been proposed to explain such patterns but with a limited evidence for any of them mostly due to a few empirical studies. The aim of the PhD project is to test these hypotheses using straightforward combination of observational (seed set and ecological preferences assessment along the latitudinal transect in Europe), experimental (plasticity and inbreeding depression experiment), cytological (flow cytometry seed screening), embryological (in collaboration with the University in Göttingen, Germany), molecular (epigenetic methylation) and modeling approaches (spatial distributional models combining with phylogeographical data, in close collaboration with the University of Lausanne, Switzerland). Diploid sexual and autotriploid asexual Hieracium alpinum (Asteraceae) will be used as a model system.

Contact for further details Patrik MRÁZ, mrazpat@natur.cuni.cz

Profile & qualification Highly motivated applicants with excellent communication skills and English, and deep interest in evolutionary ecology should hold a MSc or equivalent degree in biology or a related discipline at the point of enrollment.

Founding Accepted applicant will be supported by a salary from three years project (2014-2016) by the Czech Science Foundation (starting in March / April 2014). In addition, four years PhD fellowship will be provided by the Faculty of Sciences (starting from October 2014) and STARS PhD fellowship directly linked to the project (starting from October 2014, application deadline for STARS is 28, February 2014, online application form is at http://www.stars-natur.cz/-application).

Application Please send your application / motivation letter including your CV and contact details of two references as a single pdf by e-mail to: assoc. prof. Patrik Mráz, mrazpat@natur.cuni.cz before 28, February 2014.

Patrik Mráz Herbarium PRC & Department of Botany Charles University in Prague Benátská 2 12801 Praha CZECH REPUBLIC ++420 221951642

mrazpat@natur.cuni.cz

CharlesU Prague PlantAdaptation

Dear all,

here is a job announcement for a three-year PhD position in epigenetics:

In a three year project "Stress induced memory in clonal plants" we will investigate the role of environmental stress on induction of transgenerational effects in clonal plants and the role of transgenerational effects in adaptation of clonal plants to new environments. The successful applicant will focus on the role of epigenetic variation in the observed transgenerational effects and will compare transmissibility of environmentally induced epigenetic variation among clonal and sexual generations.

If you consider this offer interesting and you have good experience in common molecular techniques (MSAP or AFLP are preferable but not mandatory) and you are good in statistics and writing, please contact us at vit.latzel@ibot.cas.cz together with your CV, short motivation letter and contacts of two referees. The three year position is available from January 2014 but the start can be postponed on summer 2014. The research will be carried out at the Institute of Botany of the Academy of Sciences of the Czech Republic and Charles University in Prague. Both belong among the best research institutions in the Czech Republic offering internationally well established personnel and excellent technical facilities. Prague is great city to live, often ranked among the most beautiful cities in the world offering great cultural and social activities. The salary should secure financial independence for the student

(70% workload at the Institute of Botany plus standard scholarship at the Charles University) and will be above the average level in the CR. The application deadline is in 7 February 2014.

Vit Latzel (vit.latzel@ibot.cas.cz) Institute of Botany ASCR Pruhonice http://www.ibot.cas.cz/en/ Charles University in Prague http://www.cuni.cz/UKEN-1.html Fehrer Judith <Judith.Fehrer@ibot.cas.cz>

CzechRepublic MothBiodiversity

A Ph.D. studentship

Changes in biodiversity of moths along an altitudinal gradient of Mt. Cameroon

We are seeking a highly motivated Ph.D. student to join a project assessing studies of species and functional diversity of moth communities on Mt. Cameroon. The student will actively participate on field sampling (about 2 months every year) of selected groups of moths and their subsequent processing in collaboration with international specialists. The length of the study is 4 years.

The successful applicant will be supervised by Dr. Robert Tropek and Prof. Vojtech Novotny as a part of the joint team at the Institute of Entomology, Biology Centre, Czech Academy of Sciences (led by Vojtech Novotny) and Faculty of Science, University of South Bohemia (led by Yves Basset), both institutions are located in Ceske Budejovice, Czech Republic. The team is a world-leading centre for tropical ecology, four Science/Nature papers were first-authored by its members over the past ten years.

Offered

- attractive scientific topic in an established international team

- standard university scholarship (up to 102,000 CZK according to discharging of the study responsibilities) and 68% employment (182,000 CZK annually) on an ongoing grant for four years, it sufficiently covers living expenses in the Czech Republic

Required

- enthusiasm in nature and ecological science

- ability to lead a field research in challenging conditions of tropical environments

- fluency in English

- a MSc degree in biology or related fields

Desirable (but not necessary)

- previous experience of collaboration in scientific projects evidenced by a (co)authorship of research papers or conference contributions

- previous experience with moths or other arthropods

- basic knowledge of French

All applicants will send a structured CV, contacts of three references, and a cover letter stating their previous work, qualification and motivation to Robert Tropek (robert.tropek@gmail.com). Review of applications will begin on 20th February 2014 and will continue until the position has been filled. The position is available from 1st April 2014 (or later for those finishing their master studies in this academic year).

Robert Tropek <robert.tropek@gmail.com>

Durham UK EvolutionMateChoice

DOCTORAL RESEARCH PROJECT AVAILABLE IN DURHAM & STIRLING, UK

We are seeking excellent applications for a PhD studentship on "The importance of male mate choice in a mammal with typical sex roles", co-supervised by

Dr Jo Setchell, Durham University (https://-www.dur.ac.uk/anthropology/staff/academic/?id=-5345)

Dr Shane Richards, Durham University (https://-www.dur.ac.uk/biosciences/about/schoolstaff/profile/-?mode=staff&id=2874)

Dr Luc Bussiere, Stirling University (http://-rms.stir.ac.uk/converis-stirling/person/11652)

This project is part of the North East of England's and Scotland's multidisciplinary Doctoral Training Partnership (DTP) for the environmental sciences, funded by NERC.

You can find full details of the project here: http:/-/www.iapetus.ac.uk/wp-content/uploads/2014/01/-IAP_13_38-DUR-Setchell.pdf and details of the studentship competition, including how to apply, here: http://www.iapetus.ac.uk/?page_idc We are only able to consider applications from Home/European Union candidates. International candidates are not eligible and where an candidate from another EU country has

not been resident in the UK for 3 years or more prior to the commencement of their studies with IAPETUS, they will only be eligible for a fees-only studentship.

We are looking for candidates with the following qualities and backgrounds: - A first or 2:1 undergraduate degree, or have relevant comparable experience; - In addition, candidates may also hold or be completing a Masters degree in their area of proposed study or a related discipline; & - An outstanding academic pedigree and research potential, such as evidenced through the publication of articles, participation in academic conferences and other similar activities.

Jo Setchell

Dr Joanna (Jo) M Setchell Reader in Evolutionary Anthropology Durham University, UK http://-/tinyurl.com/jo-setchell Behaviour, Ecology and Evolution at Durham: www.dur.ac.uk/beer-centre Editor-in-Chief, International Journal of Primatology www.springer.com/10764 "SETCHELL J.M." <joanna.setchell@durham.ac.uk>

Goettingen DPZ PrimateKinRecognition

Master's thesis on kin recognition in mandrills:

In the french-german-gabonese collaboration 'Mandrillus Project' we are looking for a master's student to write her/his master's thesis on possible visual kin recognition mechanisms in mandrills. Within the scope of our study on kin selection in a complex social system, it will be evaluated how indiduals react to visual stimuli of related and unrelated fellows. The experiments will be conducted on caged individuals at the CIRMF reserach institute in Franceville, Gabon. Start of the ca. 3 month of field work will be beginning/mid may. Transport and accomodation are provided; fluid french and the motivation for independend practical work are a prerequisite. Due to the nature of the funding german students will have to be given priority. For further questions and/or applications please contact timo.brockmeyer@gmail.com. See also the links to the collaboration partners: http://www.cefe.cnrs.fr/-mandrillus/presentation; http://www.soziobio.uni-goettingen.de timo.brockmeyer@gmail.com

Heidelberg Phyloinformatics

Dear evoldir,

There is a PhD Scholarship available for PhD Students in my group at the Heidelberg Institute for Theoretical Studies (HITS) in Heidelberg, Germany.

The Scientific Computing group (http://www.exelixis-lab.org/), the home of RAxML, at the Heidelberg Institute for Theoretical Studies (HITS) in Heidelberg, Germany, is soliciting applications for a PhD position in the broader area of Phyloinformatics.

HITS gGmbH is a private non-profit research institute carrying out multidisciplinary research in the computational sciences. It receives its base funding from the Klaus Tschira Foundation.

Applicants shall have a background and Masters degree in bioinformatics or computer science and excellent C/C++ programming skills. Expertise in the area of high performance computing will be a plus.

Our research mainly focuses on

-Computational Molecular Phylogenetics -Large scale evolutionary biology data analyses -Supercomputing -Quantifying Biodiversity -Next Generation Sequence Data Analysis

Secondary research interests include, but are not limited to

-Emerging parallel architectures (FPGAs, GPU, Xeon PHI) -Discrete algorithms on trees -Population Genetics

The starting date is flexible. To apply, please enter your application here: https://application.h-its.org/intern/reg_registration_for.php?a=-0100001240000000000000000000000000000000100005101000000 Applications must be submitted by February 28, 2014. Please note that applications not submitted via the online system will not be considered.

Please contact Alexandros Stamatakis (Alexandros dot Stamatakis at h-its dot org) if you have any further questions.

All the best,

Alexis

– Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

www.exelixis-lab.org alexandros.stamatakis@gmail.com

ImperialC London ClimateAdaptation

*Studentship 1: The effects of climatic temperature change on microbial adaptation *Global climate change will affect all creatures on Earth, from microbes to mammals. However, how species adapt and acclimatise to a changing thermal environment remains poorly studied. The Pawar and Bell labs at Imperial College London, Silwood Park are seeking a candidate for a 4 year fully-funded BBSRC PhD Studentship to commence in October 2014. The student will combine experiments with mathematical modelling of biochemical acclimation and adaptation to study limits to adaptation in different thermal regimes. The project will use a diverse collection of microbes (bacteria and protozoa) taken from natural environments to understand how species acclimatise and adapt to experimental manipulations of temperature over different timescales. This is an integrated 1 year MSc/MRes + 3 yr PhD studentship, with the MSc component being in Quantitative Biology at Silwood Park (http://www3.imperial.ac.uk/lifesciences/postgraduate/courselist/quantitative-biology).The studentship includes all fees, maintenance costs, and research expenses as set by the Research Councils for 2014-15. * Application deadline is *31 Jan 2014; *For eligibility criteria, please see: *http://www.findaphd.com/search/ProjectDetails.aspx?PJID=49520&LID=907

*Studentship 2***: Scaling up metabolic costs of temperature fluctuations on individuals to the effects of climate change on stability of complex ecosystems* Climatic temperature first and directly impacts ecological systems by changing the metabolic rate (rate of energy use) of individual organisms. Therefore, understanding how temperature-driven changes in individual metabolism scale up to the dynamics of whole networks of interacting individuals and species (e.g., food webs) is key for predicting impacts of climate change on ecosystems. The Pawar (Life Sciences) and Stan (Bioengineering) Labs at Imperial College London (Silwood Park and South Kensington Campus, respectively) are seeking a candidate for a fully-funded PhD Studentship to commence in 2014. The student will use a novel combination of metabolic theory, dynamical network (graph) theory, and a massive database on the thermal responses of metabolic traits to address key questions about the effects of climatic fluctuations on population interaction networks underlying complex ecosystems. The study will pay particular attention to the consequences of mismatches in thermal responses of metabolic traits of interacting species on the dynamics (energy flows) and stability of consumer-resource systems. Such mismatches are becoming increasingly common as new species are introduced into ecosystems through climate-driven range shifts or direct human transportation. The student will have freedom to choose what specific questions she/he would like to ask within this framework. Some examples are: (i) To what extent will thermal responses of fluxes in complex networks of consumer-resource interactions (food webs) mirror the thermal responses of individual physiology? (ii) Will between-species mismatches in thermal responses destabilize ecosystems in a changing climate? (iii) What motifs of interaction network structure strongly determine the thermal responses of whole ecosystem dynamics, and can therefore be used to mitigate climate change impacts? (iv) What network motifs are most likely to experience species losses due to temperature changes? All these questions are fundamental for understanding the effects of climate change on stability of complex ecosystems, and will generate empirically-grounded predictions that can be tested using burgeoning data on ecological network-level effects of climatic warming.

***Application deadline is **20 Jan 2014*; For eligibility criteria, please see http://www.findaphd.com/search/ProjectDetails.aspx?PJID=50484&LID=879 Also see: https://workspace.imperial.ac.uk/climatechange/Public/pdfs/Studentships/2014/2014_81%20-%20Pawar.pdf **For both studentships*, applications should include a CV, names and addresses of two academic referees and a cover letter. The application materials should be emailed as a single, merged pdf file to s.pawar@imperial.ac.uk.* *

Thanks,

Samraat

– Samraat Pawar

Lecturer, Grand Challenges in Ecosystems and the Environment Department of Life Sciences Imperial College London, Silwood Park Campus N1.12 Munro Hall Buckhurst Road Ascot, Berkshire SL5 7PY United Kingdom

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

ImperialCollege London MolEvol

UK/EU PhD studentship

Department of Infectious Disease Epidemiology, School of Public Health at Imperial College London. Zoological Society of London (ZSL)

The Department of Infectious Disease Epidemiology is offering one 4-year Industrial CASE studentship funded by NERC. The student will be based in the Department of Infectious Disease Epidemiology < http://www1.imperial.ac.uk/publichealth/departments/ide/ > (DIDE), School of Public Health, St Marys Campus, Paddington, in CASE partnership with the Institute of Zoology < http://www.zsl.org/science/ > (IoZ), Zoological Society of London (ZSL).

The project will be on 'Understanding how environmental variation regulates infectious disease emergence in a host community' and will be integrated with our newly-funded NERC project 'The spatial epidemiology and molecular evolution of amphibian chytridiomycosis'. Research will take advantage of a well-described system of ongoing disease outbreaks caused by the globally-emerging amphibian pathogen Batrachochytrium dendrobatidis. Research will be located in the Pyrenees of both France and Spain, and will investigate how seasonal temperature profiles influence disease dynamics both directly and indirectly. Approaches can involve field manipulations, statistical/mathematical modelling and microbiome-profiling of infected lakes. The project will involve extended periods of fieldwork in high montane environments so the candidate needs to be physically fit and able to work independently. French language skills are an asset.

The studentship will pay UK/EU tuition fees and a stipend of £17,500, and the student will belong to the Graduate School which provides a full programme of training in research and transferable skills. The studentship is available to UK nationals or EU nationals who have lived in the UK for at least three years immediately preceding the date of an award. For full eligibility details please see the following Natural Environmental Research Council (NERC) terms and conditions: http://www.nerc.ac.uk/funding/available/postgrad/schemes/industrial-case.asp *Owing to funding restrictions applications from overseas candidates cannot be considered for this scheme*

Applicants should have, or expect to achieve, a first or upper second class degree or UK equivalent in a relevant subject*. Informal enquiries about the studentship should be directed to Prof. Matthew Fisher < http://www1.imperial.ac.uk/medicine/people/matthew.fisher/ > (matthew.fisher@imperial.ac.uk)

The closing date for applications for the October 2014 intake is 31st January 2014. Interviews of all short listed candidates will take place on 24th-25th February 2014. Applications should consist of 2 parts, preferably as a combined single PDF document:

1. A full CV which must include your title & full name, date of birth, gender, nationality, first degree (BSc, MSc, MBBS etc), degree class awarded or marks/grades to date, subject of first degree, place of study and university awarding the first degree, and the names, mailing addresses and email addresses of at least two academic referees (The email addresses of your referees should be for their official institution email address. You should not supply personal email addresses from Hotmail/ Gmail /Yahoo etc).

2. A one page statement indicating why you want to undertake this PhD project.

Please ensure that you include your own email address on your CV as this will be our main method of corresponding with you. Please email your completed application to: ide-phd@imperial.ac.uk stating "NERC CASE PhD Application" in the title. Please note that candidates must fulfil College admissions criteria, details of which can be reviewed at: http://www3.imperial.ac.uk/entryrequirements/graduate matthew.fisher@imperial.ac.uk

KULeuven EvolutionaryBiologyFish

Scientific project collaborator - Connectivity of fishes of the Southern Ocean University of Leuven, Department of Biology

The Laboratory of Biodiversity and Evolutionary Genomics specialises in academic research on the evolutionary biology of fishes and their parasites. In a new research project the connectivity of Antarctic fishes of

the genus Trematomus will be studied.

Research topic The marine ecosystem of the Southern Ocean is to a large extent influenced by the dynamics of the physical environment and the life cycle of polar fishes is intimately linked to it. Especially larval survival plays a critical role. For example an extended larval stage increases the chances of predation and dispersal by the currents. Nevertheless, organisms manage to maintain their populations. This suggests that the life cycle is adapted to avoid predators and that larvae stay close to the spawning grounds through homing. Hypotheses on the connectivity dynamics of rock cods will be tested through a combination of genetic profiling and IBM models. During the first research year emphasis will be put on the collection of samples during polar expeditions. Later on the population structure will be analysed with species-specific genetic markers.

To support the project we are looking for a period of 3 years for a scientific collaborator.

Profile :

- Master in Biology or Applied Biology with excellent study results

- Obligation to prepare a doctorate

- Interest in fish biology and polar ecosystems

- Ready to participate in long sampling campaigns under extreme conditions

- Experience or knowledge on molecular ecology and interest in modelling

- You will apply for a national (IWT) fellowship in September 2014

Interested candidates are requested to submit their application (motivation letter, address of three referees, summary of master thesis and Curriculum Vitae) to the Arenberg Doctoral School http://phd.kuleuven.be/-set/voorstellen_departement?departement=50000454 before 15/02/2014

Context: The doctoral research is done within the frame of the BELSPO project vERSO, in collaboration with Bruno Danis (ULB) and Anton Van de Putte (RBINS). The lab is based is in the pretty university town of Leuven, Belgium (http://www.leuven.be) and the project includes long trips to sea.

Information: prof. Filip Volckaert, phone + 32 16 323966 or E-mail. filip.volckaert@bio.kuleuven.ac.be; URL: bio.kuleuven.be/eeb/lbeg.

Filip Volckaert <Filip.Volckaert@bio.kuleuven.be>

Leibniz-IGB Berlin 2 EvolutionParasitesVectors

2 PhD student positions Relevance of parasites and vectors in freshwater ecosystems International Multidisciplinary Parasitology and Vector Biology (IMPact-Vector) Graduate School

The Leibniz-Institute for Freshwater Ecology and Inland Fisheries (IGB) in Berlin is the largest freshwater ecology research institute in Germany (www.igb-berlin.de). It is a member of the Forschungsverbund Berlin e.V. and the Leibniz-Association (www.wgl.de). The FVB manages 8 large research institutes in Berlin that have close links to all three universities in the German capital. IGB offers excellent laboratory and field facilities for interdisciplinary research, and is a member of the Berlin Centre for Genomics in Biodiversity Research

As part of the International Multidisciplinary Parasitology and Vector Biology (IMPact-Vector) Graduate School, a major new interdisciplinary research initiative funded via the Pakt for Research & Innovation of the Leibniz Association, IGB offers

2 PhD positions

on the "Relevance of parasites and vectors in freshwater ecosystems".

Depending on their interests and skills, the candidates and the supervisors will choose one out of four topics: 1. Impact of coevolution on susceptibility and resistance to the swim bladder nematode Anguillicola crassus in eels (supervisors: K. Knopf, M. T. Monaghan). 2. Zoonotic risk of endemic fish-borne trematodes (supervisor: K. Knopf). 3. Impact of parasites on top-down control of periphyton and regime shifts in lakes (supervisors: K. Knopf, S. Hilt). 4. Ecology and evolution of mosquitoes in urban, agricultural, and natural environments (supervisor: M. T. Monaghan - monaghanlab.org).

Your profile: -Masters degree (or equivalent) in biology, ecology, molecular biology, parasitology, zoology, or a related field -Laboratory and/or field research experience -Interest in solving complex biological problems -Excellent communication skills – English is the working language of the research groups

IMPpact-Vector is a joint program of the Senckenberg

Research Institute and Natural History Museum/ Biodiversity and Climate Research Center (SGN/ BiK-F, Frankfurt am Main), the Bernhard-Nocht-Institute for Tropical Medicine (BNITM, Hamburg), the Leibniz-Institute for Zoo and Wildlife Research (IZW, Berlin) and the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB, Berlin).

We offer outstanding training and support in an excellent scientific network. Faculty members are affiliated with many well-known institutes (for details see our websites). Our mission is to help students to become creative, responsible and self-confident young researchers. We are looking for highly motivated students who are strongly committed to research and share our vision to improve world health. Salary and benefits are in accordance with a public service position in Germany (50%). The contract should start in June 2014 and will be limited to 3 years. The Leibniz-Association supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

For inquiries about the research topics please contact Dr. Klaus Knopf (klaus.knopf@igb-berlin.de), for general questions about the graduate school please contact the speaker, Prof. Dr. Sven Klimpel (impactvector@senckenberg.de).

Please send your complete application before February 11th, 2014 preferably by e-mail (attachment in a single pdf document, incl. a CV, copy of the master or diploma certificate, abstract of the thesis, letter of motivation, contact details of two references and the application sheet [downloadable at http://www.senckenberg.de/files/content/ stellenausschreibungen/application_form_sgn.doc]), quoting Ref. # B 59, to the speaker of IMPact-Vector:

Herrn Prof. Dr. Sven Klimpel c/o Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt am Main impactvector@senckenberg.de

Michael Monaghan <monaghan@igb-berlin.de>

Leibniz-IGB Berlin 2 FungalGenomicsEcology

2 PhD Studentships and 2 Postdocs Biodiversity, Ecology, and Genomics of Aquatic Fungi

Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) Leibniz Centre for Agricultural Landscape Research (ZALF)

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) is the largest freshwater ecology research institute in Germany (www.igb-berlin.de) and one of 8 member institutes of the Forschungsverbund Berlin e.V (www.fv-berlin.de). IGB offers world-class laboratory and field facilities for interdisciplinary research and is a founding member of the Berlin Center for Genomics in Biodiversity Research. The Leibniz Centre for Agricultural Landscape Research (ZALF) brings together scientific competence from agricultural science, geo- and biosciences to socio-economics (www.zalf.de).

Fungi are of central importance for the global carbon cycle because of their role in the degration of complex organic matter such as plant material. Fungi also represent one of the last frontiers of biodiversity, as their taxonomic diversity and metabolic potential remain poorly understood. This is particularly true for those fungi that are abundant in freshwaters. MycoLink (Linking aquatic mycodiversity to ecosystem function) is an interdisciplinary project integrating the expertise of 4 Leibniz Institutes: IGB, ZALF, DSMZ, the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), the Leibniz Centre for Agricultural Landscape Research (ZALF), and the Leibniz-Institute of Zoo- and Wildlife Research in Berlin (IZW). We are seeking to recruit outstanding young scientists to establish an innovative research program, and currently invite applications for:

2 Postdocs and 2 PhD Students in Biodiversity, Ecology, and Genomics of Aquatic Fungi

2 positions (1 PostDoc, 1 PhD student) will focus on global biodiversity and evolutionary genomics of freshwater fungi, using second- and third-generation sequencing and bioinformatics to analyse natural populations and experimental cultures. For further information, contact Michael T. Monaghan (monaghan@igb-berlin.de)(monaghanlab.org).

2 positions (1 PostDoc, 1 PhD student) will focus on the ecological and functional role of aquatic fungi by combining state-of-the-art biochemical analyses with modeling in experimental and natural ecosystems. For fruther information, contact Hans-Peter Grossart & Katrin Premke (hgrossart@igb-berlin.de; premke@igb-berlin.de)

Applicants must hold a Diploma / Masters degree (PhD student positions) or PhD (Postdoc positions) in a relevant field. Positions are available for up to three years. Salary is according to the German TvöD (Post-

doc: 100%, PhD student: 65% position). Positions will be based at IGB Berlin, IGB Neuglobsow, and at the Berlin Centre for Genomics in Biodiversity Research. The institutes of the Leibniz Association strive to increase the proportion of female scientists. Therefore, female candidates are specifically encouraged to apply. Disabled applicants with identical technical and personal qualification will be preferentially selected.

Please submit a curriculum vitae (including publication list), a brief statement of motivation and research interests, and the names and contact information of two referees. Please send all documents as a single pdf file to monaghan@igb-berlin.de. Review of the applications will start on 21 February 2014 and continue until the positions are filled. Interviews for shortlisted applicants will take place in March.

monaghan@igb-berlin.de

LeibnizInst Berlin ClimateAdaptation 2

THIS IS A REMINDER (application deadline: 15.02.2014):

The Department of Ecosystem Research of the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) in Berlin together with the Free University of Berlin, invite applications for the position of:

PhD student in Evolutionary Biology

Application deadline: 15.02.2014; Starting date: May 2014, or as soon as possible thereafter (interviews will be conducted in March); Duration of the position: 3 years

Project title: *"Evolutionary responses to a global change"*

The PhD student will join the research group of Justyna Wolinska. The group is currently located at the Ludwig Maximilian University of Munich (Germany) but will move to Berlin in March 2014. He / she will study the evolutionary responses of communities and populations which may result from manipulated experimental conditions (i.e. global stressors), using cladoceran *Daphnia*as a model system. The student will also study the impact of manipulated conditions on the spread of infectious diseases and host-parasite coevolution (using *Daphnia* and their microparasites as a model host-parasite system).

This project is part of a research initiative around a large experimental setup located at Lake Stechlin near Berlin. "Lake Lab" (http://www.lake-lab .de/) consists of 24 experimental lake-water basins each 9 metres in diameter and around 20 metres deep, all isolated from the rest of the lake. In these experimental cylinders, future climatic scenarios are simulated and their effects on the lake studied. The overarching goal of this large research initiative is to find out if and how biodiversity will be affected as a result of climate change.

The PhD student will be involved in screening temporal changes in *Daphnia*populations using microsatellites and SNP markers, and he / she will study changes in gene expression of *Daphnia* induced by environmental conditions. Moreover, the PhD student will track temporal variation in parasite populations using NGS. Depending on the interest of the student, he / she can be further involved in field and / or experimental work.

The ideal candidate should be familiar with molecular methods and have a strong background in evolutionary biology. In addition, knowledge of bioinformatics and/or population genetics will be highly advantageous. Excellent communication and writing skills in English, good work ethic, and creative thinking are desired. A Master's degree (or equivalent) in biology is necessary for admission. The working language of the group is English.

The student will participate in the organized PhD program and will take courses at the Free University of Berlin. In addition, the student will have the chance to collaborate intensively with researchers from IGB as well as from other institutions. Generous funds are available to cover attendance at national and international conferences as well as research stays (lab rotations) in other universities.

Applications should include 1) a letter of interest with a description of relevant experience, 2) curriculum vitae, 3) abstract of the Master's thesis, 4) a list of publications (if any), 5) the names (with e-mail addresses) of two potential referees. Applications should be submitted as a SINGLE (!) PDF document to the following e-mail address: wolinska@bio.lmu.de , with the subject line: "PhD application <your family name>".

– Justyna Wolinska Ludwig-Maximilians-Universität München Department Biologie II Evolutionsökologie Grosshaderner Str. 2 82152 Planegg-Martinsried, Germany

Phone: +49 (0)89 2180 74201 Fax: +49 (0)89 2180 74204 email: wolinska@bio.lmu.de

http://www.evolutionary-ecology.bio.lmu.de/-people/assistant_profs/wolinska/index.html

http://www.evolutionary-ecology.bio.lmu.de/ http://www.igb-berlin.de/ Justyna Wolinska <wolinska@bio.lmu.de>

MemorialU SalmonConservation

PhD (or MSc) opportunity [Memorial University, Canada]

Atlantic salmon ecology & conservation

Applications are sought for a PhD position under the supervision of Dr. Craig Purchase (www.ucs.mun.ca/-˜cfpurchase) in the Fish Evolutionary Ecology Research Group (mun.ca/biology/research/feerg) at Memorial University.

The position will be sponsored by the Salmonid Association of Eastern Newfoundland (SAEN) (www.saen.org) & will include collaboration with Fisheries & Oceans Canada (DFO). For final acceptance, the selected student must apply & be approved under the Natural Sciences & Engineering Research Council of Canada (NSERC), Industrial Postgraduate Scholarship Program (nserc-crsng.gc.ca/students-etudiants/pg-cs/ips-besii_eng.asp) [high success rate].

The foundation of the four year program will include 4 key projects. The student is expected to shape the details of each & there is great scope for expansion into related areas.

Rocky River is the largest watershed on the Avalon Peninsula of Newfoundland & contains an impassable waterfall that historically prevented migration of anadromous salmon. SAEN led stocking of the watershed & construction of a fish ladder in the 1980s, which has created annual runs of hundreds of fish. Data indicate that there is a particularly poor stock/recruitment relationship. Two projects will test the hypothesis that this is due to salmon spawning in a yet unknown but very restricted part of the watershed. 1. Electronic tagging of upstream migrating salmon & subsequent tracking to spawning locations 2. Electrofishing to determine parr densities & growth rates in different parts of the watershed

Rennie's River carves through the heart of the city of St. John's & historically contained runs of wild salmon that became extinct >100 years ago. In 2012 SAEN instigated a 5-year plan to reintroduce salmon to this system. To date ˜150,000 wild eggs sourced from Exploits River fish have been incubated instream. Two projects will work with continued stocking efforts. 3. Electrofishing to determine densities, growth rates & precocial maturation of parr of both stocked salmon & naturally spawning non-native brown trout in different parts of the watershed 4. Using the stocked eggs, test the hypothesis that virgin salmon have superior egg quality than repeat spawning kelts, using instream incubators & laboratory analyses/experiments

Planned start date is Sept/14. If no suitable PhD candidate is found a MSc will be selected to proceed with Projects 3-4. The ideal candidate will have a background in ecology or fisheries, & field work experience. He/she is expected to be an active participant in collaborations, be independent & highly motivated.

Prospective candidates should email a cover letter, CV, & contact information for three people who can serve as references. Review of applicants will begin Feb 5/14 & continue until the position is filled.

Dr. Craig Purchase Biology Department, Memorial University St. John's, NL, A1B 3X9, Canada T: (709) 864-4452, F:(709) 864-3018 cfpurchase@mun.ca @CraigPurchase

cfpurchase@mun.ca

MonashU MarineEvolutionaryBiology

PhD position open: the evolutionary ecology of sessile marine invertebrates < http://meeg.org/2012/01/09/-phd-positions-available/ >

A PhD position is open to students interested in working on the evolutionary ecology of sessile marine invertebrates in Prof Dustin Marshall's group (www.meeg.org). The group's research ranges from quantitative genetics to community ecology and most projects are field based with a heavy empirical component. The specifics of the project will be determined by joint collaboration between student and supervisor.

After an expression of interest, approved applicants would be required to apply for a scholarship and tuition waiver through Monash University by April 15th. *Note that the success of such applications is not assured and the application process is extremely competitive, students without at least one first author publication in an international journal (in the topic or of ecology or evolution) will not be considered. *The stipends include all course fees plus ˜$25,000 AUD per annum

tax-free (the equivalent of approx. $33,000 before tax) with no teaching requirements for 3.5 years (the length of a Ph.D. in Australia).

Should the applicant be successful, the funding of project costs and research support including the costs of attending at least one conference per year will be provided by the research group.

Project start dates must be before June 30 2014.

Interested applicants should send an expression of interest, their CVs, a brief statement of a potential research project and the contact details of two referees to dustin.marshall@monash.edu

To be eligible, applicants must have completed at least one year of post-graduate research in ecology or evolution.

Preference will be given to those with strong quantitative skills.

Prof. Dustin Marshall School of Biological Sciences Monash University Melbourne Australia 3800 www.meeg.org Dustin Marshall <dustin.marshall@monash.edu>

NIOO-KNAW Netherlands ZooplanktonEvolution

The Netherlands Institute of Ecology (NIOO-KNAW) is a top research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW). NIOO-KNAW focuses on fundamental and strategic research on individual organisms, populations, ecological communities, and ecosystems.

The department of Aquatic Ecology offers a PhD position, funded by the Netherlands Organisation for Scientific Research (NWO)

PhD position

Rapid evolution of zooplankton under conditions of stoichiometric imbalance: Consequences for ecosystem functions and trophic interactions

Vacancy number PhD-AqE-014010

Project description:

According to ecological stoichiometry, consumers require biogenic elements (e.g. C, N, and P) in specific ratios and deviations from these ratios in food resources may result in lowered growth rates, fecundity and survival. A variety of consumer organisms have been shown to harbor substantial intra-specific genetic variation for the ability to cope with such elemental imbalances. An important implication is that stoichiometric imbalances can thus potentially be an important selection factor causing rapid micro-evolutionary adaptations in natural consumer populations. In this project, we will make use of genotypes of the rotifer Brachionus calyciflorus that have adapted to imbalanced food in a laboratory selection experiment. Through the combination of common garden experiments and mathematical modeling, we will study how rotifers adapt to stoichiometric imbalances and which are the consequences of such adaptations for elemental cycling, phytoplankton productivity and predator-prey interactions.

Requirements: - Highly motivated candidate with a degree in aquatic ecology or evolutionary ecology or a closely related field, interested in the combination of empirical work with modeling. - Experience with designing and executing laboratory experiments; mathematical and/or statistical modeling; the application of molecular techniques - Creative, critical and conceptual thinking skills - Good communication and writing abilities in English - Willingness to live in the close neighborhood of Wageningen

Appointment: This is a temporary appointment, initially for 1 year and upon satisfactory to be prolonged for a maximum of 4 years total.

Salary: The gross salary starts at euro 2.083, - per month in the 1st year, and will gradually increase to a maximum of euro 2.664, - per month in the 4th year, scale P, Collective Agreement for Dutch Universities (CAO Nederlandse Universiteiten), excluding 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Information: Additional information is available upon request from dr. S. Declerck (email: s.declerk@nioo.knaw.nl; URL: https://-www.nioo.knaw.nl/users/sdeclerck). Information on NIOO-KNAW can be found on the Internet: http:/-/www.nioo.knaw.nl Applications: Please send your application including complete curriculum vitae and names of three referees and vacancy number to vacature@nioo.knaw.nl. The closing date for application is 28 February 2014. Interviews are scheduled in the third week of March 2014.

We are not interested in services offered by any recruitment agency. Acquisition is not appreciated.

Met vriendelijke groet,

Maaike Scholten HR manager Nederlands Instituut voor Ecologie (NIOO-KNAW) Bureau Bedrijfsvoer-

ing, Droevendaalsesteeg 10 6708 PB Wageningen P.O. Box 50 6700 AB Wageningen The Netherlands M + 31(0)6-30884960 T + 31(0)317-473400 m.scholten@nioo.knaw.nl

"Scholten, Maaike" <M.Scholten@nioo.knaw.nl>

OldDominionU EvolutionCorals

Hi All,

The Barshis lab at Old Dominion University in Norfolk, VA (www.odu.edu/ ˜ dbarshis) is seeking highly qualified Ph.D. applicants to join the lab starting in Fall 2014. The lab focuses on the environmental and physiological mechanisms contributing to coral susceptibility and tolerance of environmental stress, particularly thermal challenge. We use a variety of approaches from experimental field ecology to 'omics technologies and bioinformatics.

Of particular interest are applicants with experience in the following:

1. Independent research 2. Remote field work and scientific diving 3. Minimum 3.0 undergraduate GPA

Additional desired qualifications include experience in: 1. Coral husbandry and *Symbiodinium* culture techniques 2. Molecular biology/molecular ecology 3. Next generation sequencing and bioinformatics 4. A master's degree in a related scientific field will be viewed positively

Interested candidates should email Dr. Dan Barshis directly (dbarshis@odu.edu) with a CV/resume and a brief description of her/his qualifications and interest in the ODU Ph.D. program. More information about the program can be found at http://ww2.sci.odu.edu/-biology/academics/ecologyphd.shtml NOTE: Application deadline for ODU is coming up soon on Feb. 1st 2014.

Daniel Barshis, Ph.D. Assistant Professor Department of Biological Sciences Old Dominion University Norfolk, VA 23529

barshis@gmail.com

Prague FishEvolution

PhD position available from *October 2014*

Gene expression analysis in highly polyploid and hybrid sturgeons in the Laboratory of Fish Genetics, Institute of Animal Physiology and Genetics (Libìchov), Czech Academy of Sciences, Charles University (Prague), Department of Zoology and Laboratory of Molecular, Cellular and Quantitative Genetics, Faculty of Fisheries and Protection of Water, University of South Bohemia (È.Budìjovice).

Project background: Polyploidy is an extraordinarily important evolutionary mechanism contributing to huge biodiversity of contemporary fishes. Similarly, the ease with which polyploidy of various degrees occurs naturally or can be induced experimentally by means of different approaches, gives evidence for significance of this biological phenomenon associated with fish genome plasticity. However, there are only few phenomena in fish biology and genetics on which we have so incomplete, fragmentary and sometimes biased knowledge like on polyploidy of fish. Sturgeons (Acipenseridae) together with paddlefishes (Polyodontidae) are the oldest living group of actinopterygian fishes, living fossils which literally "forgot to extinct". They diverged from the vertebrate phylogenic tree, similarly to gars after having passed two rounds of genome duplication. Chromosomes of these fish also do not exhibit, except for gars, similarity to those of other actinopterygians and chromosome numbers give evidence of the large role of polyploidization events when forming the genome of acipenserid fishes and karyological studies, flow cytometry and DNA content measurements distinguish 4 naturally existing ploidy levels: paleo4n, paleo8n, paleo9n and paleo12n species with ˜120, ˜240, ˜270 and ˜360 chromosomes, respectively. In this project we plan to investigate gene expression in sturgeons of different ploidy levels and also in interspecies hybrids with elevated ploidy levels using methods of RT-PCR, RNA FISH combined with DNA FISH and DNA/histone methylation status. This work will be performed in the context of genome size assessment (flow cytometry) and molecular cytogenetic karyotype descriptions.

For more information, visit: http://www.iapg.cas.cz/-uzfg/index.php?p=3Dsekce&site=3Ddefault&id=-3D12 or email symonova@natur.cuni.cz

Eligibility: We expect a motivated student with ex-

perience in ichthyology or cold-blooded vertebrates biology. The ideal candidate for this position is interested in molecular biology, genetics and evolutionary biology, and is willing to learn new methods. He/she must have finished the MSc (or equivalent) by September 2014 at the latest.

Time and place: The student will work in the Laboratory of Fish Genetics, Institute of Animal Physiology and Genetics, Czech Academy of Sciences in Libìchov (close to Mìlník), Czech Republic. Partly also in the Laboratory of Molecular, Cellular and Quantitative Genetics, Faculty of Fisheries and Water Protection, University of South Bohemia in Èeské Budìjovice. The position is available for up to four years, starting in October 2014.

Salary: The PhD candidates net monthly income will start at 9.000 CZK/month netto and University scholarship (6.300 CZK/monthly in the first year) and may progressively increase with experience and achievements during the study. There will be a direct support from a new GA ÈR (Grant Agency, Czech Republic) project (living expenses in the Czech Republic are generally lower than in Western European countries).

Research team: *dr. Radka Symonová* (Lab. of Fish Genetics in Libechov, Dept. of Zoology, Charles University, Prague) supervisor; *prof. Petr Ráb*(Lab. of Fish Genetics) co-supervisor; *prof. Martin Flaj[1]hans* (Faculty of Fisheries and Water Protection, University of South Bohemia) co-supervisor.

How to apply: If interested, please, send a letter of interest, CV, list of publication, title and abstract of Master/Diploma thesis, and contact details of 2-3 senior scientists for references on you in a single PDF file to *symonova@natur.cuni.cz* until February 28, 2014. http://www.iapg.cas.cz/uzfg/ Pre-selected candidates will be encouraged to submit an official application to the university.

Mgr. Radka Symonová, Ph.D. E-mail: radka.symonova@natur.cuni.cz

Laboratory of Fish Genetics Institute of Animal Physiology and Genetics Czech Academy of Sciences Rumburska 89 CZ - 277 21 Libechov Czech Republic

Department of Zoology Charles University in Prague Faculty of Science Albertov 6, 128 43 Praha 2 www.natur.cuni.cz/en symonova@natur.cuni.cz

PurdueU HellbenderConservation

Title: PhD Assistantship - Hellbender Ecology and Conservation

Agency: Purdue University

Location: West Lafayette, IN

Job Description: Seeking a highly motivated student for a fully funded PhD position focusing on hellbender ecology and conservation. The selected candidate will evaluate larval hellbender captive rearing techniques, assess post-release movements and survival, and characterize juvenile hellbender habitat use. This project will consist of intensive field work combined with extensive travel to field sites located in southern Indiana. Transportation and off-campus housing will be provided. Graduate position begins in August 2014, but opportunities for field work can begin in May 2014.

Qualifications: A student with an MS in herpetology or related field is preferred although exceptional applicants with a BS will be considered. Experience using radio- telemetry is desired. Applicants must have a strong work ethic and the ability to work both independently and as a member of a research team. Excellent interpersonal skills are essential. Applicants will work closely with a diverse group of state wildlife biologists, private landowners, and supervise field technicians. Potential applicants are encouraged to visit https://-ag.purdue.edu/fnr/Pages/gradadminguide.aspx to ensure they meet the minimum departmental requirements for admission. Students that do not meet minimum requirements will not be considered. Experience in the peer-reviewed publication process is desired.

To apply, electronically submit a cover letter stating research and career interests, CV (including cumulative GPA and GRE scores), and contact information for three references to Dr. Rod Williams (rodw@purdue.edu).

Purdue University is an equal access/equal opportunity/affirmative action employer fully committed to achieving a diverse workforce.

Stipend: ~$20,000/yr

Last Date to Apply: March 1, 2014

Contact: Rod Williams E-mal: rodw@purdue.edu

Phone: 765-494-3568 Web: http://-

web.ics.purdue.edu/~rodw/ Steve Kimble Postdoctoral Research Assistant, Department of Forestry and Natural Resources Purdue University skimble@purdue.edu sjkimble@gmail.com http://web.ics.purdue.edu/~rodw/sKimble.php sjkimble@gmail.com

QueensU PopulationDynamics

Temperature, seasonality and recurrent insect outbreaks

A PhD position is available in the area of Experimental Population Dynamics, which is part of a larger project aimed at understanding how seasonal temperature changes influence the stability of population dynamics. The overall project is an international collaboration between Dr. Nelson (Queens University, Canada), Dr. Bjornstad (Penn State, USA), Dr. Tobin (USDA, USA) and Dr. Yamanaka (NIAES, Japan) and is funded by the National Science Foundation (USA). While the project is strongly interdisciplinary between mathematical and experimental approaches, it is anticipated that each graduate student on the project will take a single focused approach to studying the problem. Candidates for this position will have the opportunity to work with the tortrix tea pest (Adoxophyes honmai) at Queens University, which is a new experimental model system for studying population dynamics. While the experimental parts of the project will be done at Queens University and the theoretical work done at Penn State, all graduate students on the project will have regular interactions. More background on this project and my lab group can be found on my website (http://post.queensu.ca/~nelsonw/Index.html). Applicants for this position should have a strong academic record and demonstrated ability for independent research. We encourage applicants with a background in either mathematics or experimental biology. Please send your CV, a copy of academic transcripts and a cover letter to Bill Nelson (nelsonw@queensu.ca).

Queens University is a research intensive institution with a strong graduate program in Ecology and Evolution, and Mathematical Biology. The Biology department provides stimulating academic environment with a collegial atmosphere.

William Nelson Associate Professor

Department of Biology Queen's University Kingston, ON, Canada, K7M 3N6 Phone: (613) 533-6130 Fax: (613) 533-6617 http://post.queensu.ca/ ~ nelsonw/-Index.html William Nelson <nelsonw@queensu.ca>

RuhrU Bochum FungalBiodiversity

The Department of Geobotany of the Ruhr-University Bochum invites applications of PhD candidates for a thesis on

Functional Diversity of Fungi at the Soil-Water-Boundary

Microorganisms are responsible for nutrient cycling in all habitats, but their individual functional roles in natural environments, such as soil, water or plant tissues, are still largely unexplored. Only most recent developments in massive parallel sequencing approaches provides detailed insights into the complexity of microbial communities and their indispensable contributions to ecosystem processes. The main aim of the project is to disentangle these contributions on the (meta-)genomic and transcriptomic level.

The candidate must hold a MSc or Diploma degree in Biology, Botany or Microbiology and is expected to have thorough knowledge at least in one of the following fields: molecular genomics/transcriptomics, ecological and environmental statistics, or fungal ecology. The candidate is expected to conduct the research project largely independently and to interact in a broader research consortium.

The Ruhr-Universität Bochum is an equal opportunities employer and particularly encourages applications from women and disabled people.

Applications including CV, a motivation letter (max. two pages) and names of two potential referees should be submitted electronically no later than 31th of January 2014 to Prof. Dr. Dominik Begerow (dominik.begerow@rub.de). URL: http://www.ruhr-uni-bochum.de/geobot/en/geobot/index.html . Prof. Dr. Dominik Begerow Ruhr-Universität Bochum AG Geobotanik Gebäude ND 03/174 Universitätsstraße 150 44780 Bochum Tel: *49 (0)234 32 27212 Sekretariat: *49 (0)234 32 26237 Fax: *49 (0)234 32 14434 E-Mail: dominik.begerow@rub.de

Dominik Begerow <dominik.begerow@rub.de>

SoutheasternLouisianaU PlantSystematics

MSc position with Dr. Rick Miler, Department of Biological Sciences, Southeastern Louisiana University, Hammond, LA

Topic: "Taxonomic revision of sweet potato and its wild relatives"

Deadline for application: 1 February 2014

Project description:

There is a growing interest in the systematics and evolutionary biology of sweet potato and its wild relatives, motivated in part by wanting to determine the gene pool that could contribute to crop improvement. This group of morning glories (*Ipomoea*) includes 14 named species of the *Batatas* complex. Recent molecular work by our lab has demonstrated that the relationships among populations of the named species are not consistent with previous notions of species boundaries. These results and the general understanding of the biology of these morning glories warrants a new examination of the pattern of morphological variation and continued study of molecular genetic variation among the members of the *Batatas* complex to develop a revised taxonomy.

In this project, the Master's student will carry out an investigation of the pattern of morphological variation using quantitative analyses, as well as continue obtaining DNA sequence data to further understand relationships among population samples of the *Batatas* species. This contribution will be important as we develop the wild crop relatives into resources for the improvement of sweet potatoes. Additional areas of study are possible, such as crossing studies among populations of *Batatas* species to determine levels of interfertility, as well as field trials to evaluate traits important in crop improvement (e.g. drought resistance, resistance to pathogens and insects).

Our lab is generally interested in the evolution of ecologically important traits and the systematics of morning glories, the model system for our research. We have ongoing research in the systematics of morning glories, phylogeography of particular species, evolution of life history traits, and the evolution of flowers from molecules to ecology. Our lab includes master's students, as well as excellent undergraduate research assistants carrying out many aspects of our research effort. For example, we recently completed a study of the systematics of morning glories based on over 30 whole-chloroplast genomes, that was the work of a master's student and an outstanding team of undergraduate assistants (Eserman et al. 2014. AJB 101: 92-103).

The Department of Biological Sciences at Southeastern includes a broad group of biologists with strengths in systematics, evolutionary biology and ecology, as well as organismal biology in general. Hammond is located north of New Orleans and east of Baton Rouge.

For information on the application process visit the Biology Department website and information for graduate student applicants (Graduate Degree Programs).

http://www.southeastern.edu/acad_research/depts/-biol/ To further discuss this research opportunity and the graduate program, please contact:

Rick Miller, rickmiller@selu.edu

Rick E. Miller, Ph.D. Department of Biological Sciences Southeastern Louisiana University Hammond, LA 70402

Biology Building 403 office/419 lab phone: 985 549-5556 FAX: 985 549-3851 email: rickmiller@selu.edu http://www2.selu.edu/Academic/Faculty/rickmiller richard.miller@selu.edu richard.miller@selu.edu

StockholmU PlantInsectInteractions

PhD position at the University of Stockholm (Department of Ecology, Environment and Plant Sciences)

Topic: "The ecology and evolution of plant-microbe-insect interactions"

Reference number SU FV-0118-14.

Deadline for applications: February 9, 2014.

Project description Plant-based food webs are well-known for their stunning species diversity and complexity. For example, several million insect species and a similarly large number of fungi, bacteria, nematodes and viruses interact with the world's c. 300,000 plant species. Unfortunately, studies on terrestrial food webs are often hampered by the lack of interdisciplinary approaches. For example, while we know that insects interact with insects, and microbes with microbes, cross-kingdom interactions among plants, insects and microbes have only infrequently been explored. Neverthe-

less, recent evidence indicates that plant-microbe-insect interactions may be one of the major forces structuring the ecology and evolution of terrestrial plant-based communities.

In this project, the PhD student can pursue multiple approaches (depending on skills and interest) to investigate the role of plant-microbe-insect interactions in structuring a plant-based communities. The student will start the project by using field observations and a large-scale greenhouse experiment to quantify the relevance of plant-microbe-insect interactions within a community context. Next, the student may apply molecular tools to reveal the underlying genetic and physiological mechanisms underlying plant-mediated insect-microbe interactions. Several other projects may be selected according to the interest of the student. The majority of the work will be on the food web surrounding Plantago lanceolata, but some questions may also be answered using the species-rich food web on the pedunculate oak (Quercus robur).

For more information on the project and the application, see: http://www.su.se/english/about/vacancies/-phd-studies/phd-position-in-ecology -1.163114

– Dr Ayco Tack, MRG, Department of Biosciences, University of Helsinki, FI-00014 Helsinki, Finland Tel: +358 (0)45 1107855; www.plantmicrobeinsect.com https://tuhat.halvi.helsinki.fi/portal/en/person/-tack http://www.helsinki.fi/foodwebs/Ayco.htm ayco.tack@helsinki.fi

TexasAMU HydroidGenomics

The Miglietta Lab at Texas A&M University at Galveston is looking for graduate students for AY 2014-15.

If you have enthusiastic students interested in ecology and evolution and genomics of hydroids and jellyfish please have them contact me at: miglietm@tamug.edu

Projects include:

Genomics of the "immortal" jellyfish Turritopsis dohrnii Phylogenetics and evolution of Hydrozoa (Cnidaria) Medusa blooms

Deadline for admission at TAMUG graduate school is March 15 2014

For information about the program, please visit http://-/www.tamug.edu/marb/Graduate/graduate.html Sincerely,

Maria Pia

Maria Pia Miglietta Assistant Professor Department of Marine Biology Texas A&M University at Galveston Ph. 409 740 4458 http://www3.nd.edu/ ~ mmigliet miglietm@tamug.edu

TrentU ConservationGenetics

MSc POSITION in conservation genetics in the Environmental and Life Sciences Graduate Program, Trent University, Canada, in collaboration with the Ontario Ministry of Natural Resources.

Project description: Numerous species of native mussels are endangered or threatened in Ontario. One of the challenges in developing conservation management plans for these species is identifying extant populations. This project will entail the development and implementation of environmental DNA (eDNA) markers that can be used to detect the present of mussel species and identify locations that should be the targets of conservation management plans. In addition, the unusual pattern of mtDNA inheritance in mussels (maternal inheritance in females, biparental inheritance in males) allows for the possibility of developing sex-specific eDNA markers that could potentially be used to identify sites of spawning. Using a combination of field, laboratory, and experimental methods, the goals of this project are to (a) quantify the efficacy of eDNA markers under a range of conditions, (b) use eDNA markers to map the presence and absence of mussels from multiple sites, and (c) develop sex-specific eDNA markers. The project will be co-supervised by Dr.Joanna Freeland, Dept. of Biology, Trent University, and Dr. Chris Wilson, Ontario Ministry of Natural Resources.

Qualifications: BSc or similar degree. Previous experience in field work and genetic lab work an asset, but not essential. Enthusiasm and willingness to get wet are essential!

How to apply: Application should include (1) a letter stating why the applicant should be considered a strong candidate for the position, (2) a CV, (3) names,with e-mail address and telephone numbers, of two referees, and (4) any other documents that the applicant deems relevant. Please send enquiries or applications to joannafreeland@trentu.ca and chris.wilson@ontario.ca .

Joanna Freeland Dept. of Biology Trent University http://people.trentu.ca/joannafreeland/Chris

Wilson Ontario Ministry of Natural Resources http://web.nrdpfc.ca/cwilson.htm Joanna Freeland <joannafreeland@trentu.ca>

UAmsterdam EvolutionaryBiology

PhD candidate, Evolutionary Biology

University of Amsterdam

The Theoretical Ecology group at the Institute for Biodiversity and Ecosystem Dynamics at the University of Amsterdam is looking for a PhD candidate in Evolutionary Biology to investigate how the conditional expression of male alternative reproductive phenotypes affects the ecological and evolutionary dynamics of populations.

The project starts around mid 2014. The full-time appointment will be on a temporary basis for a maximum period of four years (18 months plus a further 30 months after a positive evaluation) and should lead to a dissertation (PhD thesis). An educational plan will be drafted that includes attendance of courses and (international) meetings. The PhD Student is also expected to assist in the teaching of undergraduates. The full-time gross monthly salary will range from EUR 2,083 in the first year to EUR 2,664 in the final year, according to the Dutch salary scales for PhD students. The Collective Labour Agreement Dutch Universities is applicable. The annual salary will be increased by 8 % holiday allowance and 8.3 % end-of-year bonus.

You must have a Master's degree (or equivalent) in Ecology, Evolution or Population Biology and experience with laboratory experiments, preferably with invertebrates. You must have an interest (preferably experience) in combining theory, laboratory studies, and data analysis. Good computer skills, including statistical analysis and preferably also programming in MatLab or R, are required, as is a willingness to work in a multidisciplinary environment.

Applications should include a detailed CV including educational experience, a list of publications, a letter describing motivation and research interests, and the names and contact addresses of two academic references from which information about the candidate can be obtained. Combine these materials into a single PDF file. Applications should be sent before 28 February 2014 (midnight GMT+1), via email, to: application-science@uva.nl. Please quote the vacancy number 14-008 in the subject field. Interviews, possibly via Skype, will be held 7 and/or 8 April 2014. More information can be found at: http://www.uva.nl/en/about-the-uva/working-at-the-uva/vacancies/item/14-008.html .
Dr Isabel Smallegange

Assistant Professor

Institute for Biodiversity and Ecosystem Dynamics

University of Amsterdam

P.O. box 94248

1090 GE Amsterdam

The Netherlands

I.Smallegange@uva.nl

UBasel MicrobialGenomics

PhD-position in microbial genomics and host-pathogen interactions at the University of Basel, Switzerland

A PhD fellowship is available in the group of Dieter Ebert at Basel University, Basel, Switzerland. I am looking for a highly motivated candidate with interests in evolutionary genomics and host-parasite interactions. The PhD project is concerned with the bacterium Pasteuria ramosa, a pathogen of Daphnia magna. The aim of the project is to gain insights into the genetic interactions of the pathogen and its host using genomic and experimental approaches. Part of the project will be worked out with the candidate, to accommodate interests and strength. The position is supported by the Swiss National Science Foundation and the University of Basel. The research group covers the entire range from epidemiological and ecological aspects of host-parasite interactions, to studies on the population genetics and genomics of hosts and parasites. Work is carried out in the field and in the lab. For more information see: http://evolution.unibas.ch/-ebert/ Some recent publications related to the project: - Luijckx, P., H. Fienberg, D. Duneau, and D. Ebert. 2013. A Matching-Allele Model Explains Host Resistance to Parasites. Current Biology 23:1085-1088. - McElroy, K., L. Mouton, L. Du Pasquier, W. Qi, and D. Ebert. 2011. Characterisation of a large family of polymorphic collagen-like proteins in the endospore-forming bacterium Pasteuria ramosa. Research in Microbiology 162:701-714. - Duneau, D., P. Luijckx, F. Ben-Ami, C. Laforsch, and D. Ebert. 2011. Resolving the infection process reveals striking differences in the contribution

of environment, genetics and phylogeny to host-parasite interactions. Bmc Biology 9.

Starting date for the PhD is negotiable (any time from April 2014 onwards). German is helpful in every day life, but the working language in the group is English. A Diploma or Master degree (or equivalent) in biology or related subject is necessary for admission.

Please send your application by email (all material in one PDF please) to Dieter Ebert. Applications should include a CV, a list of publications and a statement about research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Application deadline is 25. Feb. 2014.

Further information and address for application: Prof. Dr. Dieter Ebert, University of Basel, Institute of Zoology, Basel, Switzerland, Email: dieter.ebert@unibas.ch Tel. +41-(0)61-267 03 60, Fax +41-(0)61-267 03 61. Web: http://evolution.unibas.ch/ebert/ Dieter Ebert Universität Basel, Zoologisches Institut, Vesalgasse 1, 4051 Basel, Switzerland Tel. +41 (0)61 267 03 60 Email: dieter.ebert@unibas.ch

dieter.ebert@unibas.ch

UBath HoneyBeePathogenEvolution

Inferring social contact networks and transmission dynamics of honey bee pathogens from sequence data.

Main supervisor: Professor Edward Feil (Department of Biology and Biochemistry, University of Bath) email: e.feil@bath.ac.uk

The emergence and spread of infectious agents has traditionally been studied from two distinct perspectives; epidemiological dynamics (which refers to the patterns of spread over time between populations or individual hosts) and evolutionary dynamics (which refers to the genetics changes responsible for, and resulting from, changes in fitness and transmissibility). The advent of next-generation sequencing technology is leading to a closer synthesis between these two, most visibly due to the promise of sequence data to inform on individual transmission events. Although it is important to retrospectively determine who infected who over the course, a more fundamental question concerns the promise of phylogenetic analysis of NGS data (eg the genetic tree) to inform on more general epidemiological dynamics, given a model of host movement and susceptibility (eg the transmission tree). For example, the existence of 'super-spreaders' in the population (individuals which go on to infect a disproportionately high number of other individuals) might be apparent as clusters of genomes from different individuals but sharing a recent common ancestor. Such an approach has been taken for human sexually transmitted disease using known sexual contact networks, but has not been considered for wildlife diseases. Honey bees (Apis mellifera) represent an excellent case to further development this framework. Pathogens represent a major contributor to the decline in honey bee populations, which has well-publicised commercial and ecosystem consequences. Prior studies have focused on pathogen transmission and the social contact network in pollinators, but have not incorporated the use of molecular data, and recent work has modelled transmission dynamics on a landscape scale. We are also aware of large scale projects currently underway using NGS data to understand the transmission of bacterial pathogens of honey bees. Training will be provided in molecular evolution and population biology, network dynamics and epidemiological modelling. A large component of the work will be based on scripting, and full training will be given in R and PERL and various bioinformatics packages. The first year rotation will be between the groups of Feil and James at the University of Bath, who work on population biology and social network theory respectively. Later work with Turner at Bristol will involve simulating sequence evolution over alternative contact networks (using the insights gained in Bath) to determine the extent to which transmission dynamics can can be recapitulated from the genetic tree.

Funding Notes: One of our 4-year BBSRC-SWDTP studentship in World Class Bioscience, see http://-www.bath.ac.uk/science/gradschool/funding/bbsrc-phds/ Applicants must meet BBSRC criteria for UK residency in order to qualify for funding. EU applicants are not usually eligible for personal funding support.

Applicants should use the online application that can be found (along with application guidance) at: http:/-/www.bath.ac.uk/study/pgresearch/apply/ Please ensure that you upload all required documents when applying, including a CV.

Please specify 'BBSRC-SWDTP' and the project and supervisors you are interested in on your application (e.g. in section 7)

E.Feil@bath.ac.uk

UBern RodentParasiteCoevolution

Genomics and ecology of rodent and parasite speciation

PhD position, 3 years

Applications are invited for a PhD project investigating the processes and consequences of evolutionary divergence and hybridization in rodents and their effects on associated parasites. The project will combine fieldwork and genomic analyses of vole hybrid zones with investigations on the evolutionary ecology of rodent-borne viruses and other parasites. Our approaches bridge the fields of molecular ecology, evolutionary genomics and epidemiology, and aim to better understand the drivers of explosive speciation in Microtus, a prime example of very rapid evolutionary divergence in mammals.

I am seeking a highly-motivated candidate with excellent organizational skills who is able to work independently as well as in a team. The ideal candidate has a solid background in evolutionary biology, practical experience with modern molecular laboratory work and analysis methods in population genetics and phylogenetics. Experience with fieldwork on small mammals is not essential. Experience with R-programming, next-generation sequencing and bioinformatics is a plus. A Master degree in a relevant field such as evolution, genetics, or similar, and a valid driver's license is required. Good knowledge of written and spoken English is expected. The project includes periods of fieldwork and laboratory analyses abroad, and the writing of several manuscripts for leading journals in the field. Some knowledge of German or French would be beneficial for living in Switzerland but it is not essential. The working language in our institute is English.

The CMPG offers a stimulating research environment with excellent research facilities. We are also part of the Swiss Institute of Bioinformatics (SIB). Information on the research group and the University of Bern, or life here in general can be obtained from www.cmpg.iee.unibe.ch and http://bern.ch/ . The position is funded by the Swiss National Science Foundation for three years, and the anticipated starting date is March or April 1st 2014. Please send your application including a letter outlining your past research experience, technical skills and particular motivation for this position (max. 2 pages), CV, list of publications (if available), abstract of Master or Diploma thesis and contact details of 2-3 referees in a single (!) pdf file to gerald.heckel@iee.unibe.ch This is a re-advertisement. Previous applicants may reapply but make very clear why they feel particularly suited and motivated for this position. For full consideration, your application should be received before January 31 2014.

PD Dr. Gerald Heckel

Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution University of Bern Baltzerstrasse 6 CH-3012 Bern, Switzerland Tel: +41 31 631 30 29 Fax: +41 31 631 48 88 Email: gerald.heckel@iee.unibe.ch http://www.cmpg.iee.unibe.ch Swiss Institute of Bioinformatics (SIB) http://www.isb-sib.ch/-groups/Computational_Population_Genetics.htm gerald.heckel@iee.unibe.ch

UBirmingham 2 Insect Daphnia Omics

Recruitment of a PhD student at the University of Birmingham, Edgbaston campus, Birmingham, UK

School of Biosciences, Molecular Ecophysiology Group and Environmental Genomics Group

PI: Dr Scott Hayward http://www.birmingham.ac.uk/-staff/profiles/biosciences/hayward-scott.aspx Co-PI: Prof. John Colbourne (UoB) http://-www.birmingham.ac.uk/staff/profiles/biosciences/-colbourne-john.aspx 2 available projects: Deadline: 31st Jan 2014 ? after which short listed applicants will then be invited for interview. Start date: Oct 2014

Project 1: 4 Yr NERC PhD studentship - part of CENTA (http://www.birmingham.ac.uk/generic/-centa/index.aspx)

Title: Molecular mechanisms underpinning Daphnia diapause: from genes to ecosystem resilience Daphnia (the water flea) represent sentinel species in assessing the health of freshwater systems internationally, and are key indicators of ecosystem resilience to environmental change. Populations of Daphnia cannot escape environmental stress by migrating and instead enter a specialised dormant state, termed diapause, to avoid unfavourable conditions. Diapause can be a seasonal response, induced by photoperiod and temperature, or a response to other environmental cues such as food quantity/population density or predators (kairomones). The programming of diapause shifts populations from a

cycle of asexual reproduction to the sexual production of diapausing embryos. This switch plays a fundamental role in regulating Daphnia phenology, thus influencing freshwater food webs and nutrient cycling. Through our ongoing work with the Daphnia Genomics Consortium (DGC), Daphnia is emerging as one of the best characterized genomic systems. Amazingly, however, we know almost nothing about the molecular mechanisms that underpin diapause in any Daphnia species. We also know nothing about the impact of environmental pollution on diapause. Yet this information is critical to disentangling how diapause is regulated, its evolutionary history, and the ability of species to survive under continued environmental change.

Core objectives: i) First molecular characterisation of diapause in Daphnia using both genomic (HiSeq) and metabolomic approaches ii) Quantify the stress tolerance limits of diapausing embryos, and thus determine what environmental conditions represent tipping points in population survival. iii) Determine how diapause incidence is affected by increased levels of environmental pollution.

Training: Birmingham holds extensive collections of Daphnia strains from various wild populations ideally suited to this project. The DR will be fully trained in culturing this sentinel organism used in freshwater environmental research, as well as state-of-the-art omic technologies, including high throughput sequencing.. Both SH and JC are based within the Biosystems and Environmental Change (BEC) theme, where the DR will interact on daily basis with researchers at the vanguard of applying systems biology approaches to understanding organismal responses to environmental change. Further project details: http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=49489&LID=124 Project 2: 4 Yr BBSRC PhD studentship - part of MIBTP (http://www.birmingham.ac.uk/research/activity/-mibtp/index.aspx)

Title: Establishing greater food security under environmental change through understanding pollinator diapause

Establishing agricultural resilience and food security in the face of environmental change is of intense global interest, and the commercial production of pollinators, such as the bumblebee Bombus terrestris, will play a key role in achieving this objective. In common with most temperate insects, B. terrestris enters a period of dormancy, termed diapause, to survive winter under natural conditions. More uniquely, it is only mated queens that enter diapause and persist to establish new colonies the following year. In a commercial setting diapause is extremely useful as it allows the long-term cold storage of bees. However, diapause can also represent an unwanted delay in population turnover. Molecular mechanisms that underpin key diapause characteristics represent potential targets for diapause manipulation, and this has fundamental applications in controlling life cycle duration, synchronising availability with demand, providing a year round supply ?off-the-shelf?, as well as maximising the fitness of supplied bees. To date, there are no published studies on the mechanisms regulating diapause in B. terrestris. Indeed,

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UCollegeLondon ImmuneEvolution

NERC funded PhD project open for competitive applications

Eligibility: UK and EU nationals

Deadline for formal applications: 17 February 2014 Start date: October 2014

Project: Taking its TOLL: understanding the evolutionary forces shaping immune genes in threatened, reintroduced species.Supervisors: Patricia Brekke (Zoological Society of London), Francois Balloux (UCL)

Project Description: Loss of genetic variation in threatened species hinders their ability to adapt to our changing environment. However, we have a limited understanding on how the mechanisms that shape genetic variation interact in wild, threatened populations. Change in the balance between selection and genetic drift is known to facilitate shifts to novel adaptive peaks and the genetic architecture of adaptively important traits under laboratory conditions. However, its relative importance remains controversial in wild populations of non-model organisms. With this studentship, we aim to test the role of genetic drift and parasite-mediated selection in shaping functional genetic variation at TOLL-like-receptor genes (involved in immune response) and how exposure to novel environments brought on by reintroduction affects this balance. This study will be based on the hihi reintroduction programme, an endemic and endangered passerine

from New Zealand which is strongly susceptible to disease.

Research relating to this project: Alcaide, M., & Edwards, S. V. (2011). Molecular evolution of the toll-like receptor multigene family in birds. Molecular biology and evolution, 28(5), 1703V15. doi:10.1093/molbev/msq351 Grueber, C. E., Wallis, G. P., & Jamieson, I. G. (2013). Genetic drift outweighs natural selection at toll-like receptor (TLR) immunity loci in a re-introduced population of a threatened species. Molecular ecology. doi:10.1111/mec.12404 Tschirren, B., Andersson, M., Scherman, K., Westerdahl, H., Mittl, P. R. E., & B, P. R. S. (2013). Polymorphisms at the innate immune receptor TLR2 are associated with Borrelia infection in a wild rodent population. Proc. R. Soc. B doi:10.1098/rspb.2013.0364 1471-2954

Policy Impact of Research: This study will address an explicit goal of the Convention on Biological Diversity, how to conserve genetic variation to maintain biological diversity and evolutionary processes.

Further Information: http://london-nerc-dtp.org/-2013/11/27/taking-its-toll-understanding-the-evolutionary-forces-shaping-immune-genes-in-threatened-reintroduced-species/ To apply: http://-london-nerc-dtp.org/how-to-apply/ Dr Patricia Brekke Research Fellow Institute of Zoology Zoological Society of London Regents Park NW1 4RY Tel: 0207 449 6650 http://www.zsl.org/science/ioz-staff-students/-brekke,1123,AR.html < http://www.zsl.org/science/-ioz-staff-students/brekke > Follow us on twitter @hihinews and @ZSLScience

Patricia Brekke <brekke.patricia@gmail.com>

UFribourg Switzerland EvolutionaryGenomics

Ph.D. position in ecological & evolutionary genomics

Testing the drivers and limits of species radiations

The groups of Christian Lexer (Uni Fribourg), Michael Kessler (Uni Zurich) and Nicolas Salamin (Uni Lausanne) are opening several positions in their labs, funded by the Swiss National Science Foundation, to work on the ecological, evolutionary, and genomic aspects of species radiations. The positions will be part of a large collaborative project that aims at bringing together macroecology, population genomics and phylogenomics to investigate the drivers and limits of species radiations in several Neotropical plant groups. In this context, we are looking for candidates that have a strong background in one of these research areas and the willingness to collaborate on scientific questions outside of their core area of expertise.

The Ph.D. position at University of Fribourg, hosted by Christian Lexer's lab, will address the drivers of / constraints to Neotropical species radiations by applying the tools of population genomics to selected groups of bromeliads (epiphytes in rain forests) and palms. You will use high-throughout 'genotyping-by-sequencing' approaches to study the mechanisms that facilitate or limit the evolution of genomic diversity at each of the three major life cycle stages of extant species: speciation, expansion, and persistence through mechanisms conferring species cohesion. This includes (1) testing key hypotheses on speciation with strong geographic isolation vs. speciation with gene flow in neotropical mountain systems, (2) testing the role of ecological selection as a driver of population divergence and speciation in neotropical mountains, (3) identifying potential agents of selection by projecting differentially selected ('aptive) DNA variation into multivariate niche space. Prior experience with the use of DNA-based genetic markers to answer evolutionary questions is essential for this project. Also essential is a keen interest in gaining experience with the analysis of ultra high throughput DNA sequencing data. Considerable expertise in bioinformatics and computational biology is available locally in the department, from the Swiss Institute of Bioinformatics (SIB), and from Swiss Ph.D. programs. The project involves participation in several plant collecting expeditions in the New World tropics.

The starting date for the position is May 2014, and funding is available for three years. Knowledge of French or German is helpful in every day life, but the working language in the group is English. A Master degree in biology or related subject is required. Fribourg is a lively town with pleasant surroundings and an excellent quality of life. It is located ca. 30 minutes from the Alps, close to other cities such as Berne and Lausanne and just a little over an hour from Geneva and Zürich.

To apply, please send an e-mail with the application materials in a single pdf file to Christian Lexer (christian.lexer@unifr.ch). Application materials should include a CV, a list of publications, and a short (less than one page) statement of research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Applications received before 10 February 2014 will be given full consideration.

Further information and address for application: Dr. Christian Lexer, Associate Professor of Evolutionary Biology E-mail: christian.lexer@unifr.ch, Tel: +41 26 300 88 68 Web: http://www.unifr.ch/biol/ecology/-lexer/people.html

christian.lexer@unifr.ch

UGiessen Germany InsectEvolutionaryEcol

PhD Position in Evolutionary Ecology, Gie©, Germany

The Department of Applied Entomology, Institute of Phytopathology and Applied Zoology, Faculty of Agricultural Sciences, Nutritional Sciences and Environmental Management, has open position in the group of Dr. Joop (http://www.insekten-biotechnologie.de/-en/ng-joop.html) for 2 PHD STUDENTS

starting from 01/03/2014, currently until 31/12/2016. The salary will be according to salary group 13 of the Hessian wage agreement (Tarifvertrag Hessen, TV-H E13 1/2) if the applicants qualifications meet the requirements of the wage agreement.

Tasks: Participation in research projects on insects chemical defense and secretion; in the first position are the total secretions of insects and their effectiveness in the foreground, while in the second position the determination of insect symbionts and their defense mechanisms with various quantitative methods is given priority, using a diverse set of cultivation techniques; both positions come with testing of candidate substances for biological activity under various conditions.

Requirements: You have completed an above-average university degree (master or diploma) in entomology, natural science, agricultural science or related subjects.

Position 1: The ideal candidate has very good theoretical and practical knowledge in one or more of the following areas/techniques: sample preparation, GC-MS, HPLC, entomology, insect breeding, transcriptomics; experience in chemical ecology and good knowledge in statistics and/or programming languages, such as Perl, Python, or R, would be of advantage.

Position 2: The ideal candidate has very good ppractical experience in microbial, molecular (i.e. NGS, qPCR, FISH), and quantitative- analytical methods; interest in microbial ecology and complex microbial interactions; an interest and/or experience in bioinformatics as well as entomology and insect breeding would be a plus. Due to the international research environment very good command of spoken and written English is essential. The Justus-Liebig-University Giessen strives for a higher proportion of women in science; therefore we encourage qualified female scientists to apply. The Justus-Liebig-University is a family-friendly university. Applicants with children are welcome. Please send your application (in German or English) including reference number 115/00189/09 with the usual documents until 30/01/2014 or until the position is filled to Dr. Gerrit Joop, Institute of Phytopathology and Applied Zoology, Heinrich-Buff-Ring 26-32, 35392 Giessen, Germany. Severely handicapped applicants with equal qualifications will be preferred. As the documents will not be returned after end of the selection procedure do not send originals. For further information contact: gerrit.joop@agrar.uni-giessen.de.

Gerrit Joop <Gerrit.Joop@agrar.uni-giessen.de>

UGroningen ComputationalBiology

PhD (4 years) position in computational modelling of biological systems

The behavioural Ecology and Self-organization Group at the University of Groningen is seeking to recruit a PhD student to strengthen its research team on Self-organization of Social systems. The position is full-time and available immediately.

Research environment

The position is part of the project 'Optimisation of navigation for intercepting prey during aerial hunting by birds', funded by a Grant (ALW) from the Netherlands Science Foundation (NWO) to Prof. dr. Charlotte Hemelrijk. Key objective of this project is to understand how the hunting strategy of a raptor has been shaped by evolution: whether evolution has optimised the guidance of the raptor for hunting as a specialist or as generalist and what the robustness is of the optimised prey-targeting system in relation to the behaviour of the prey, whether it is unwary or trying to escape, it is flying solitarily or is flocking. For this the effects on the optimization of pursuit-evasion tactics, behavioral delays, flight control, biomechanics, the prey-targeting and flocking of prey will be studied in a computational model. Evolutionary techniques will be combined with insights from models and empirical data

of flight mechanics, hunting behavior (diving and level pursuit) and guidance of the aerial predator. Results will also be related to procedures used in the missile literature. The research team will also involve another PhD student working on escape of prey when solitary and when in a flock. Both PhD students will develop and extend computational models on specific species of raptor and prey. The research project is a collaborative effort of the research team on Self-organization of Social systems and the Oxford Flight Group. Predictions generated by the computational models will be verified with hunts from real raptors in cooperation with the Oxford Flight Group. Daily supervision will come from Prof. dr. Hemelrijk and Dr. Hanno Hildenbrandt. Dr. Graham Tayler (Oxford Flight Group, UK) will co-supervise the project.

The PhD will work in Groningen in the BESO group which is embedded in the Centre for Ecological and Evolutionary Studies (CEES), which comprises several other strong, internationally recognized research groups in the field of avian and evolutionary biology. The University of Groningen enjoys an international reputation as a dynamic and innovative centre of higher education and belongs to the best research universities in Europe.

Requirements

The successful candidate will have previous research experience in theoretical modeling, be in good command of the English language (oral and written) and possess excellent communication skills (indicated by the ability to write scientific papers and deliver presentations). Since studies on self-organisation are highly interdisciplinary, successful candidates are expected to demonstrate an active and supportive approach to interdisciplinary research and collaborate with other group members. Suitable candidates can be either individuals with a background in the computational (life-) sciences, with interest in evolutionary and biological questions, or evolutionary biologists with experience in computational modeling.

Candidates for the PhD position should have:

MSc in mathematical biology, a MSc in computational science with focus on biology or an MSc in computational physics with specialization in biology, MSc in Artificial Intelligence with a specialization in an area of computational or mathematical biology or a MSc in Biology, with a specialization in an area of computational or mathematical biology. Experience with developing computer simulation code and a sufficient background in mathematics. A strong interest in biomechanics of flight and attack, interest in collective, swarming behavior. Candidates with research experience in these areas are particularly encouraged to apply.

Conditions of employment

The University of Groningen offers a salary of euro 2,042 (salary scale 50.0) gross per month in the first year, up to a maximum of euro 2,612 (scale 50.3) gross per month in the final year, based on a full-time position. The position requires residence in Groningen and must result in a PhD thesis within the 4-year contract period. A PhD training program is part of the agreement and the successful candidate will be enrolled in the Graduate School of Science. The successful candidate will first be offered a temporary position of one year with the option of renewal for another three years. Prolongation of the contract is contingent on sufficient progress in the first year to indicate that a successful completion of the PhD thesis within the next three years is to be expected.

How to apply

Applications, including a letter of motivation, a curriculum vitae, a list of publications (if any), a list of examination marks, and the contact information of three

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UGroningen ComputationalBiology 2

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optimised prey-targeting system in relation to the behaviour of the prey, whether it is unwary or trying to escape, it is flying solitarily or is flocking. For this the effects on the optimization of pursuit-evasion tactics, behavioral delays, flight control, biomechanics, the prey-targeting and flocking of prey will be studied in a computational model. Evolutionary techniques will be combined with insights from models and empirical data of flight mechanics, hunting behavior (diving and level pursuit) and guidance of the aerial predator. Results will also be related to procedures used in the missile literature. The research team will also involve another PhD student working on escape of prey when solitary and when in a flock. Both PhD students will develop and extend computational models on specific species of raptor and prey. The research project is a collaborative effort of the research team on Self-organization of Social systems and the Oxford Flight Group. Predictions generated by the computational models will be verified with hunts from real raptors in cooperation with the Oxford Flight Group. Daily supervision will come from Prof. dr. Hemelrijk and Dr. Hanno Hildenbrandt. Dr. Graham Tayler (Oxford Flight Group, UK) will cosupervise the project.

The PhD will work in Groningen in the BESO group which is embedded in the Centre for Ecological and Evolutionary Studies (CEES), which comprises several other strong, internationally recognized research groups in the field of avian and evolutionary biology. The University of Groningen enjoys an international reputation as a dynamic and innovative centre of higher education and belongs to the best research universities in Europe.

Requirements

The successful candidate will have previous research experience in theoretical modeling, be in good command of the English language (oral and written) and possess excellent communication skills (indicated by the ability to write scientific papers and deliver presentations). Since studies on self-organisation are highly interdisciplinary, successful candidates are expected to demonstrate an active and supportive approach to interdisciplinary research and collaborate with other group members. Suitable candidates can be either individuals with a background in the computational (life-) sciences, with interest in evolutionary and biological questions, or evolutionary biologists with experience in computational modeling.

Candidates for the PhD position should have:

MSc in mathematical biology, a MSc in computational science with focus on biology or an MSc in computational physics with specialization in biology, MSc in Artificial Intelligence with a specialization in an area of computational or mathematical biology or a MSc in Biology, with a specialization in an area of computational or mathematical biology.

Experience with developing computer simulation code and a sufficient background in mathematics.

A strong interest in biomechanics of flight and attack, interest in collective, swarming behavior. Candidates with research experience in these areas are particularly encouraged to apply.

Conditions of employment

The University of Groningen offers a salary of euro 2,042 (salary scale 50.0) gross per month in the first year, up to a maximum of euro 2,612 (scale 50.3) gross per month in the final year, based on a full-time position. The position requires residence in Groningen and must result in a PhD thesis within the 4-year contract period. A PhD training program is part of the agreement and the successful candidate will be enrolled in the Graduate School of Science. The successful candidate will first be offered a temporary position of one year with the option of renewal for another three years. Prolongation of the contract is contingent on sufficient progress in the first year to indicate that a successful completion of the PhD thesis within the next three years is to be expected.

How to apply

Applications, including a letter of motivation, a curriculum vitae, a list of publications (if any), a list of examination marks, and the contact information of three academic

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UGuelphOntario AquaticEvolutionaryEcol

MSc and PhD positions available in aquatic evolutionary ecology. University of Guelph, Dept. of Integrative Biology.

I seek MSc and/or Phd students interested in the evolutionary ecology of diversification of fishes in postglacial lakes. Projects include studies on the

evolution of polyphenism in sunfishes and the evolution of heterospecific aggression in stickleback (see: http://www.uoguelph.ca/ib/people/faculty/-robinson.shtml). Both projects involve substantial field work components.

Depending on the project, ideal candidates will have a mix of the following attributes: a strong background in ecology and evolution, with some background in aquatic ecology and fishes, and an interest in the origins of diversity, individual variation and/or behavior. Advantageous skills / experience include a background in hypothesis driven independent research (honours or previous graduate research experience), small power boat certification, an Ontario G class drivers license (or equivalent). Canadian students with a strong academic record who would be eligible for federal and Ontario scholarships will be given priority although. Potential start dates are May or September 2014.

The Department of Integrative Biology, University of Guelph, continues its long history of research and training in natural resource management, wildlife biology and ecology, with an emphasis on aquatic systems, such as through their specialized major in Marine and Freshwater Biology. The department has a particularly strong group of faculty with interests in the ecology of organisms, communities, landscapes and ecosystems (www.uoguelph.ca/-ib/research/ecology.shtml). At least half of its 40 active faculty perform research on aquatic organisms or in aquatic systems (physiology, ecology, evolution, biodiversity), and support a thriving graduate program of more than 100 students (http://www.uoguelph.ca/-ib/grad/graduate.shtml). In addition, faculty in the School of Environmental Sciences (SES) at Guelph (www.uoguelph.ca/ses/content/about-ses) provide additional depth in applied ecology, ecosystem conservation, aquatic systems and environmental change. Guelph is an ideal location for research that focuses on the ecology and evolution of individual organisms up to communities, ecosystems and landscapes.

Interested students should send the following: A cover letter explaining your interests and skills A CV, including the names and contact information for three references Unofficial university transcript An example of a recent written report (that you are proud of!) reflecting independent research on some topic

To: Dr. Beren Robinson, berenrob@uoguelph.ca Website: http://www.uoguelph.ca/ib/people/faculty/-robinson.shtml berenrob@uoguelph.ca

UHelsinki EvolutionaryMorphometrics

PhD position: University of Helsinki Institute of Biotechnology

Morphometrics of embryonic development and evolution.

The Developmental Biology Program of the University of Helsinki is seeking to recruit a M.S. student to start a PhD and participate in investigations on the morphometric analysis of embryonic development and evolution. The successful applicant will have the opportunity to develop an independent project within the scope of the core research interests of the lab. The project involves developing new morphometric methods to test several existing hypothesis in evolution and development (evo-devo). These include both hypothesis developed in our group and classic hypothesis in the evo-devo literature. This line of research complements other in the simulation of the dynamics of embryonic development and evolution and how variation in this development leads to specific directions of morphological variation.

The Jukka Jernvall and Salazar-Ciudad groups include a diverse group of researchers (paleontologists, developmental biologists, genomics, functional morphologists and computational biologists) working together to integrate development, natural selection and the patterns of morphological variation in evolution.

The project would involve working with CT-scans and analysis of morphological variation within and between species.

Applicants should possess a strong understanding of basic principles of evolutionary biology (developed through coursework and/or research experience), an interest or understanding of the bases of the developmental bases of morphological variation and the ability to work productively both independently and as part of a team. Additional desirable qualities include programming skills or a willingness to acquire them and a good academic record.

Interested persons should contact Dr. Isaac Salazar Ciudad by email (isaac.salazar@helsinki.fi), including a brief statement of research interests, and a CV. Review of applications will begin immediately and continue until the position is filled.

The project involves spending some time with collaborators in Barcelona and close collaboration with Jukka Jernvall's group (http://www.biocenter.helsinki.fi/bi/-evodevo/index.shtml).

For an outline of the groups research: http://www.biocenter.helsinki.fi/bi/evodevo/-group_isaac.shtml Article exemple: Salazar-Ciudad I, Jernvall J.A computational model of teeth and the developmental origins of morphological variation. Nature. 2010 Mar 25;464(7288):583-6.

The University of Helsinki is a public University that has regularly been ranked among Europes 10 to 15 best universities on worldwide ranking lists of research universities. Some 470 doctorates are completed annually and nearly 10,000 scientific articles or monographs are published yearly by the universitys researchers.

isalazar@mappi.helsinki.fi

UHelsinki GeneNetworkEvolution

University of Helsinki, Institute of Biotechnology: PhD position in Evolutionary Biology, Developmental Biology and Systems Biology

We are looking for a student, preferably a biologists, to start a grant for a PhD on the interrelationship between the evolution of gene networks, development and the phenotype:

- Simulation of the evolution of the genotype-phenotype map of complex organs based on development.

or/and

- Computational models of pattern formation and morphogenesis in animal development

One of the current challenges of evolutionary biology is to understand how genetic variation leads to specific morphological variation (the genotype- phenotype map) and how that process affects the direction of morphological change in evolution. Our group is devoted to address this question by using gene network models.

Programming skills or a willingness to acquire them is required.

The project involves spending some time with collaborators in Barcelona and close collaboration with Jukka Jernvall's group (http://www.biocenter.helsinki.fi/bi/-evodevo/index.shtml).

The exact topic of the theses would be discussed in detail during interview.

The job can start as soon as a adequate candidate is found.

For an outline of the groups research: http://www.biocenter.helsinki.fi/bi/evodevo/-group_isaac.shtml For further inquiries: isalazar at mappi.helsinki.fi Developmental biology program, Institute of Biotechnology, University of Helsinki

Article exemple: Salazar-Ciudad I, Jernvall J.A computational model of teeth and the developmental origins of morphological variation. Nature. 2010 Mar 25;464(7288):583-6.

Salazar-Ciudad I, Marín-Riera M. Adaptive dynamics under development-based genotype-phenotype maps. Nature. 2013 May 16;497(7449):361-4.

The University of Helsinki is a public University that has regularly been ranked among Europe's 10 to 15 best universities on worldwide ranking lists of research universities. Some 470 doctorates are completed annually and nearly 10,000 scientific articles or monographs are published yearly by the universitys researchers.

Isaac.Salazar@uab.cat

isalazar@mappi.helsinki.fi

UJohannesburg SardineGenomics

MSc or PhD position in sardine genomics/bioinformatics

University of Johannesburg, South Africa

The Molecular Zoology Laboratory at the University of Johannesburg (Auckland Park, South Africa) invites applications for a full-time MSc or PhD (preferred) position in genomic and transcriptomic work on sardines. The position is funded by the National Research Foundation (NRF) for a maximum of 3 years and is available immediately.

This project is part of a multidisciplinary collaboration that presently includes Dr Peter Teske (University of Johannesburg, phylogeography), Dr Carl van der Lingen (DAFF, fisheries research), Prof Christopher McQuaid (Rhodes University, ecology) and Prof Luciano Beheregaray (Flinders University, genomics).

Instead of the usual approach of employing a geneticist and having a bioinformaticist help with the data analysis, we are instead considering employing a bioin-

formaticist and teaching her/him the limited amount of genetic methods that will be required for the project.

The student should have experience working in a Unix/Linux environment, and should preferably also have some experience analysing genomic and/or transcriptomic data. Genetic laboratory skills are not required. Remuneration is R (ZAR) 60 000 per year (NRF) + top-up funding from the University of Johannesburg + funds paid out for publications. Given that the cost of living is very cheap in South Africa, this amount of funding is quite substantial. The student should ideally be based at the University of Johannesburg (http://en.wikipedia.org/wiki/-University_of_Johannesburg) for the duration of the project. The university is located next to the cosmopolitan suburb of Melville, which has a particularly interesting mix of nightlife and culture (http:/-/en.wikipedia.org/wiki/Melville,_Gauteng).

Although NRF bursaries are normally reserved for South African students, they can be allocated to foreign students on a first-come-first-served basis, using the following quota system: MSc: 10% for African students from outside South Africa; PhD: 15% for African students, 5% for foreign students from outside Africa.

A short summary of the project is included below. The complete proposal is available on request; interested students should please contact Dr Peter Teske.

Dr Peter Teske Head: Molecular Zoology Laboratory (Aquatic Division) Department of Zoology University of Johannesburg, Kingsway Campus Auckland Park 2006 South Africa

Email: pteske101@gmail.com Private website: http://sites.google.com/site/drpeterteske/ Flinders University Molecular Ecology Lab: http://-www.molecularecology.flinders.edu.au/ Summary:

Understanding the stock structure of marine populations is critical for the sustainable management of marine resources. Molecular methods have demonstrated that many southern African marine species are subdivided into multiple distinct populations, but even though there is non-genetic evidence for spatial heterogeneity in the southern African sardine, Sardinops sagax, previous molecular analyses have failed to confirm this. It is likely that the apparent lack of genetic structure is merely a consequence of the technical approaches that have been applied to date (genotyping of a small number of selectively neutral loci) being too uninformative to study a species that is expected to show only minimal genetic divergence between stocks.

Recent technological advances in DNA sequencing technology (Next-Generation Sequencing) show considerable promise for studying the stock structure of *S. sagax*. First, these methods can generate data from hundreds of thousands of loci, and are thus more likely to capture the few loci that show genetic structure when it has only developed very recently. Second, it is possible to identify gene regions that are involved in adaptation to regional environmental conditions, and which are more likely to show divergence among southern Africa's temperature-defined marine regions than are selectively neutral loci.

The present research project will use genomics (RAD-seq) and transcriptomics (RNA-seq) to comprehensively address the issue whether or not the South African sardine resource comprises multiple stocks. We expect that the data generated will be useful to formulate management guidelines that will benefit the sustainable exploitation of this economically important species. In addition, the project will contribute towards resolving whether or not there is a universal link between genetic structure and biogeography, and it will improve South Africa's research capacity in the area of genomics research.

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Dr Peter R Teske Senior Lecturer Office D3 LAB 225 Department of Zoology University of Johannesburg, Kingsway Campus

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ULondon EvolutionaryTheory correction

Please note that in an earlier posting the incorrect deadline was given. The deadline for applications should be 24 January 2014. Sorry for any inconvenience

The following 2 PhD Projects are on offer at Royal Holloway University of London

Life history and genome architecture

The organization and architecture of the genome has been shaped by natural selection. There is abundant evidence that many genomes contain parts which were acquired from other organisms. Examples are viruses, which have integrated in the genetic material in a cell,

and plasmids found in bacteria. The most striking examples are the acquisition of the genomes of organelles such as chromoplasts and mitochondria, which have originated from a fusion of cells. One fundamental question regarding genome architecture is why, and how, natural selection favours individual genes to cluster into nuclear genomes, and what type of genes were selected to cluster. In this theoretical project we will use mathematical and computer models to investigate this question. When two genomes are brought together conflicts may arise. For the host cells, the new genome could contain beneficial traits, as well as detrimental traits, for instance bacterial viruses often carry genes which allow bacteria to survive and multiply, but these same viruses can lyse the bacterial cell. For the invading genome there is a tension between fully integrating in their hosts' genome and optimizing the transmission together with the host but in doing so giving up the possibility of independent transmission. What we aim to investigate in this project is how selection has acted on these genes, and whether selection would favour genes to cluster into a nuclear genome, or not.

Intra-genomic Conflict and Medical Disorders Intra-genomic conflict defies the logic of natural selection: why would natural selection favor any gene whose expression reduces the fitness of its host? However intra-genomic conflict has left its signature in many molecular mechanisms. A paradigmatic example of evolution driven by intra-genomic conflict is the case of genomic imprinting where conflict between paternally inherited and maternally inherited genes in the same individual results in silencing of one gene but not the other. Recently, genomic imprinting (and intra-genomic conflict in general) has been linked to several diseases. For example, deletion of the PWS/AS cluster of imprinted genes causes Prader-Willi syndrome (PWS) when the deletion is paternally inherited but Angelman syndrome (AS) when it is maternally inherited. The clinical phenotype, regarding appetite and activity levels, of children suffering from these syndromes is the reverse: poor sucking and low weight in children with PWS but insatiable appetite and obesity in children with AS. This intriguing reversal of the clinical phenotype of a deletion is best explained in the light of conflict between genes with different parental origin. In particular, it can be explained when paternally inherited copies favor a greater allocation of maternal resources to offspring than the maternally inherited copy does. We are interested in further exploring the role of intra-genomic conflict in disease. Can we predict the risk of developing diseases caused by genes in conflict? Can we suggest epigenetic modifications that may palliate some symptoms?

Supervisors Prof. Vincent A.A. Jansen and Dr. Francisco Ubeda

Further details These projects are suitable for candidates with some background or experience in mathematical modeling or simulation at undergraduate level. We are looking for candidates, either with a background in the life sciences, and experience in mathematical or simulation modeling, or for candidates with a background in a quantitative subject (e.g. mathematics, computer science, physics) and an affinity for research in ecology and evolution.

The studentship has a maintenance allowance of £15726 per annum for 3 years and a UK/EU/EEA tuition fee waiver. We expect candidates to have a 2.1 or first class degree (or equivalent if not a UK degree). Both studentships will be held in the School of Biological Sciences of Royal Holloway, University of London. The research in the School covers the breadth of biology and hosts a number of theoretical researchers. The School was ranked among the best UK Bioscience Departments in the last research assessment (RAE 2008). The scenic Royal Holloway campus < http://www.telegraph.co.uk/education/-expateducation/9480575/Beautiful-universities-around-the-world.html?frame=2312131 > is on the outskirts of London.

If you are interested in applying please contact us informally before the deadline at F.Ubeda@rhul.ac.uk or Vincent.jansen@rhul.ac.uk. Apply before the 24th of January 2014 following the link "How to apply" on

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UManchester EvolutionArthropods

Assessing fossils and fossilization to reconstruct the origin and evolution of arthropods Supervisors: Robert Sansom, Phil Manning, Roy Wogelius and Matthew Cobb (Faculty of Life Sciences and School of Earth and Atmospheric and Environmental Sciences, University of Manchester, UK). email: robert.sansom@manchester.ac.uk

Can the fossil record be reliably used to reconstruct the relationships of extinct organisms? How is our

understanding of evolutionary processes changed when we take fossilization processes and biases into account? This project aims to address these questions by focusing on the problematic origins of a complex clade –the arthropods. Three differing approaches will be taken: geochemical analysis of mechanisms of preservation, experimental investigation of fossilization processes and phylogenetic simulations. The combined data generated from theoretical and empirical studies will serve as a powerful and unique tool with which to re-visit the palaeontological data and the evolutionary inferences drawn from them. The PhD would suit biologists or geologists with an interest in evolution and palaeobiology and will provide high quality training in a variety of analytical techniques: phylogenetics, comparative anatomy, geochemical analysis, experimental decay and dissection, taxonomy, and palaeontological data analysis.

In order to reconstruct the Tree of Life and test hypotheses about the origins and evolution of animals and their body plans, we need turn to the fossil record. Fossils provide unique and direct insight into deep time allowing us to reconstruct major evolutionary events. This becomes more problematic when dealing with those important episodes occurring in soft-bodied forms; this includes the origin and diversification of one of the most diverse and numerous groups of animals on earth – the arthropods. Fossils of this kind are only preserved under exceptional circumstances and undergo complex processes of change and loss, both anatomical and chemical, during preservation. Analysis of the mechanisms and processes occurring during preservation can transform our understanding of these fossils (Wogelius et al 2011; Manning et al 2009; Briggs 2003), and when combined with analysis of phylogeny (Sansom et al 2010; Sansom & Wills 2013), interpretations of evolutionary relationships can change dramatically. Understanding of the origin of arthropods is massively impacted by fossil data, yet the relationship between decay, preservation and phylogeny is largely uncharacterized.

This project is part of the Universities of Manchester and Liverpool NERC Doctoral Training Programme. If you are interested in this particular project, make contact with the Principal Supervisor to discuss your application. You should then submit an online PhD application as soon as possible, and select NERC Doctoral Training Programme on the online application. For more details see:

http://www.ls.manchester.ac.uk/phdprogrammes/-nercdtpstudentships/ Deadline for applications: February 10th

References:

Briggs DEG. 2003. The role of decay and mineralization in the preservation of soft-bodied fossils. Annual Reviews in Earth and Planetary Sciences 31:275-301.

Budd GE, Telford MJ. 2009. The origin and evolution of arthropods. Nature 457:812-817. Manning PL, Morris PM, McMahon A, Jones E, Gize A, Macquaker JHS, Marshall J, Lyson T, Wolff G,

Buckley M, Wogelius RA. 2009. Preserved soft-tissue structures and organic molecules in a mummified hadrosaur dinosaur from the Hell Creek Formation, North Dakota (USA). Proceedings of the Royal Society Series B., 276:3429-3437.

Sansom, RS, Wills MA. 2013. Fossilization causes organisms to appear erroneously primitive by distorting evolutionary trees. Scientific Reports 3:2545.

Sansom RS, Gabbott SE, Purnell MA. 2010. Non-random decay of chordate characters causes bias in fossil interpretation. Nature 463:797-800

Wogelius RA, Manning PL, Barden HE, Edwards NP, Webb SM, Sellers WI, Taylor KG, Larson PL, Dodson P, You H, Da-qing L, Bergmann U. 2011. Trace Metals as Biomarkers for Eumelanin Pigment in the Fossil Record. Science. 333:1622-1626.

Dr. Robert Sansom NERC Research Fellow University of Manchester, Faculty of Life Sciences Michael Smith Building, Dover Street, M13 9PT, UK tel:+44(0)161 275 1496 http://-www.ls.manchester.ac.uk/research/researchgroups/-computationalandevolutionarybiology/-people/?alias=sansomr Robert Sansom <robert.sansom@manchester.ac.uk>

UMemphis PlantEvolGenetics

MS/PhD in Plant Ecological Genetics, Biodiversity The University of Memphis, Fall 2014

I am seeking motivated students who are interested in pursuing a degree studying plant population, evolutionary, or ecological genetics. My lab has broad interests in these topics, and I am particularly fascinated by the extraordinary amount of diversity that can be seen not only in natural populations, but also within a single crop species. My major research goal is to understand the processes and mechanisms that lead to this remarkable genetic, phenotypic, and ecological diversity. I use

traditional population genetic methods combined with next-gen sequencing approaches to accomplish these goals. Potential projects include a USDA-funded population and ecological genetic study aiming to understand the risk of pollen flow from crop to wild carrot or phylogenetic studies using next-gen sequencing techniques in the Compositae (sunflower) plant family. Students will also be encouraged to explore new avenues of research that stem from investigations conducted in my lab.

Details about admission and degree requirements can be found at http://www.memphis.edu/biology/-graduate.htm . Applicants must apply to both The University of Memphis Graduate School and the Department of Biological Sciences. To ensure full consideration, applications should be completed by February 1. Students (either MS or PhD) will be supported through a graduate assistantship or research assistantship position.

The University of Memphis is a leading metropolitan research institution with over 30 faculty members specializing in diverse sub-disciplines of the biological sciences. The Feinstone Center for Genomic Research (http://www.memphis.edu/feinstone/), the interdepartmental Program in Bioinformatics (http:/-/www.memphis.edu/binf/), the Ecological Research Center (http://www.memphis.edu/erc/), the Integrated Microscopy Center (http://www.memphis.edu/--imc/), and the Meeman Biological Field Station (http://www.memphis.edu/meeman/), are all administered through the department and offer outstanding opportunities for research, teaching, and collaboration.

Please contact me (jmandel@memphis.edu) with a CV if you are interested in joining my lab.

Jennifer Mandel, Assistant Professor The University of Memphis Department of Biological Sciences 3774 Walker Avenue Memphis, TN 38152 Jennifer-mandel.com

"Jennifer Mandel (jmandel)" <jmandel@memphis.edu>

UMontreal mtDNAInheritance

PhD Position in evolutionary biology in Montreal**

An opportunity is available for a PhD position in the research group of Dr Sophie Breton at the Université de Montréal, to work on the molecular mechanisms that regulate mitochondrial inheritance in the only animal group that diverges from the 'Strict Maternal Inheritance (SMI) of mtDNA rule', i.e. bivalves with their radically different Doubly Uniparental Inheritance (DUI) system.

Project: DUI is a "mother-to-daughter & son" and "father-to-son" mtDNA inheritance system where females transmit their 'F mtDNA' to all offspring, and males transmit their highly divergent 'M mtDNA' to only their sons (M vs. F DNA divergence >40%). However, the mechanisms underlying DUI are still unknown and the cause of deviation from the "SMI rule" in bivalves remains an open question. This NSERC-funded project aims to unravel the mechanisms underlying DUI by deep-sequencing transcriptomics (and proteomics). Therefore, the successful applicant should have experience or a strong interest in evolutionary biology, molecular biology, and/or bioinformatics.

Qualifications: PhD applicants should have (or expect to complete) an MSc degree and should have publications in PubMed-listed journals. Applicants will be expected to apply for scholarship funding support if selected for the position.

Full funding is available to support the successful candidate for three years in addition to a limited travel budget. Expected start date is September 2014. The Université de Montréal is a French language institution where graduate work may be undertaken in English or French.

Interested students should contact s.breton@umontreal.ca and attach a CV, academic transcript, contact details of two academic referees, and a brief description of their research interests.

The position will remain open until a suitable candidate is found.

Please note that only those selected for an interview (Skype or telephone) will be contacted. Preference will be given to Canadian citizens and permanent residents.

Sophie Breton Professeure adjointe Université de Montréal Pavillon Marie-Victorin, Faculté des Arts et des Sciences CP 6128, Succursale Centre-Ville Montréal QC H3C 3J7 514-343-7460 (tel)

Sophie Breton <s.breton@umontreal.ca>

UNewSouthWales LacebugEvolution

PhD in Molecular Genetics of the Macadamia Lacebug EERC BEES UNSW, Profs Cassis & W Sherwin

The project will investigate the identity, ecology and genetics of Macadamia lacebugs, which cause catastrophic crop loss in plantation Macadamia. In the face of increased deregistration of current insecticides, this pestiferous insect threatens the sustainability of the Macadamia industry. The proposed research will result in the determination of species and genetic diversity and species interactions of plantation and wild Macadamia Lacebugs. These results will provide the Macadamia industry a basis for designing an integrated pest management program and a sustainable future.

We are looking for PhD candidates with solid molecular genetic experience; experience in fieldwork and/or entomology is an advantage.

PROCEDURE (1) DISCUSS: Email letter with CV, academic record, and details of two academic referees, to Prof Gerry Cassis (gcassis@unsw.edu.au) or Prof Bill Sherwin (W.Sherwin@unsw.edu.au). Your letter should explain how your results are sufficient to allow successful application for a SCHOLARSHIP at UNSW (see below). We cannot consider other applications.

(2a) PhD SCHOLARSHIP APPLICATION ? LOCAL Due 23 May 2014: http://research.unsw.edu.au/-domestic-research-candidate- scholarships Australian or NZ citizens or Australian permanent residents can apply for scholarships which cover fees and stipend. Typically, a first-class honours degree with a full-year research project is needed.

(2b) PhD SCHOLARSHIP APPLICATION ? INTERNATIONAL Due 28 Feb 2014: http://-/research.unsw.edu.au/international-research-candidate- scholarships Applicants who are not Australian citizens or permanent residents can apply for International postgrad awards which cover fees and living allowance. Note that to get one of these you need to have marks of 90% or more in a full-year research degree (ie no coursework), and preferably two publications in a journal which is rated in the Thompson/ISI Journal Impact factors http://thomsonreuters.com/-journal-citation-reports/ (3) PhD CANDIDACY APPLICATION Submit with scholarship application: http://research.unsw.edu.au/how-apply-postgraduate-research-study- Professor WB Sherwin Evolution & Ecology Research Centre Deputy Head, School of Biological Earth and Environmental Science, University of New South Wales, Sydney NSW 2052 Australia W.Sherwin@unsw.edu.au PH:61-2-9385-2119 FX: 61-2-9385-1558 http://www.bees.unsw.edu.au/staff/-william-b-sherwin CRICOS provider code 00098G

William Sherwin <w.sherwin@unsw.edu.au>

UOtago NZ Modelling Biocontrol

MSc/PhD Project Opportunity Available to

Model Biocontrol Strategies for Vertebrate Pests We are seeking an MSc/PhD student with interests in ecological modelling and applied ecology to conduct research into the potential effectiveness of an in-development form of novel biocontrol (the Trojan Female Technique).

Project Description: Biological control is widely used in the control and eradication of plant and animal species. Among the most common forms of biological control are a group of approaches that aim to control or eradicate population/species by reducing their fertility and reproductive capacity. To date the most successful of these approaches has been the Sterile Male Technique (SMT), also known as the Sterile Insect Technique, where large quantities of sterile males are released into a population each generation. If released in sufficient numbers these males monopolise matings with females, but because they are sterile no progeny are produced resulting in a reduction in the population size. Repeated cycles of release ultimately result in population numbers being heavily reduced or even eradicated.

The Trojan Female Technique (TFT) is a novel twist on the SMT using mitochondrial DNA mutations that affect male but not female fertility. Since mitochondria are maternally inherited, this approach has the predicted advantage of lack of selection against individuals carrying the mutant mtDNA, offering the potential for continuous, self-sustaining biological control. Thus, unlike the SMT where large yearly releases are generally required, cost savings associated with the TFT being persistent make it potentially applicable to a wider range of invertebrate, and even vertebrate, pests. Building on preliminary work in which a generic model exploring TFT potential was developed (see Gemmell et al. 2013. Proc Roy Soc B 280: 20132549 < http://rspb.royalsocietypublishing.org/-content/280/1773/20132549.abstract >), we are seeking to explore the utility of the TFT approach in the control of a key vertebrate pest species impacting indigenous biodiversity in New Zealand, such as the ship rat or brushtail possum.

This work will be aligned to a new MBIE project 'The Trojan Female Technique: A novel non-lethal ap-

proach for pest population control' headed by Dr Dan Tompkins (Landcare Research) in collaboration with Prof Neil Gemmell (Otago). The MSc position will be based at the University of Otago and Landcare Research (Dunedin).

The Ideal Candidate: The ideal candidate will possess experience in ecology, statistics and modelling. In addition they will be motivated and organised, with a demonstrated capacity to master the broad skill set necessary for the successful completion of a research project.

Minimum qualifications: B.Sc. (Hons) or PgDipSci in Ecology, Statistics, or equivalent with an A- average or better.

Scholarship Funding: An MSc Research scholarship ($13,000 for one year) and associated fees is available for the successful candidate through the Chisholm Family Trust. There is also opportunity for exceptional BSc (Hons) or MSc candidates (A average or better) to apply for a University of Otago PhD scholarship http://www.otago.ac.nz/study/scholarships/ with a high probability of success.

Eligibility: This opportunity is open to all nationalities. However, overseas candidates for whom English is not a first language must satisfy the English Language Requirements of the University < http://www.otago.ac.nz/international/postgraduate/-index.html#englishlanguage > to be eligible for study (see). Other international eligibility criteria are here < http://www.otago.ac.nz/international/postgraduate/-otago002221.html >.

How to Apply: Interested applicants are encouraged to make informal enquiries to Professor Neil Gemmell. Please send your Curriculum Vitae, a copy of your academic transcript, a sample of your written scientific work and the names of three referees with a covering letter to:

Professor Neil J. Gemmell e-mail: neil.gemmell@otago.ac.nz

Further information Gemmell lab < http://gemmell-lab.otago.ac.nz > Landcare Research < http://-www.landcareresearch.co.nz/ >

Applications close on the 2nd February 2014. It would be desirable if the successful applicant were able to start in early/mid 2014.

Professor Neil J. Gemmell Department of Anatomy University of Otago, PO Box 913 Dunedin 9054 New Zealand

Phone: +64 3 479 6824 Fax: +64 3 479 7254 e-mail: neil.gemmell@otago.ac.nz Web: http://gemmell-lab.otago.ac.nz/

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UPacific California SexualDimorphismEvolution

Master's student position starting August/September 2014 at the University of the Pacific in Stockton, California, USA. 2-3 years, competitive teaching stipend and tuition remission available.

The Rivera lab seeks a Master's degree student to investigate the evolutionary pressures driving sexual dimorphism in an ostracod crustacean. The project will combine field collection, microdissection, micromanipulation of live invertebrates, molecular biology, animal husbandry, and development of methods to molecularly identify millimeter-sized crustaceans. The successful candidate does not need to be familiar with all of these techniques, but does need a willingness to learn, some background in general lab techniques, and a Bachelor's in Biology or a related field.

The full application, including GRE scores and letters of recommendation, is due March 1st, please contact Dr. Ajna Rivera at arivera@pacific.edu before Feb 1st to discuss details.

arivera@PACIFIC.EDU

UQueensland MiddleEarEvolution

The Weisbecker Lab at the University of Queensland, Brisbane, Australia, is looking for a motivated PhD student to work on a project researching the soft-tissue origins of the mammalian middle ear based on investigations into the development of the marsupial middle ear region, starting either mid-year 2014 or after.

The origin of the mammalian middle ear was an extreme transformation in the evolution of mammals from reptile-like ancestors. Initially devoted to feeding, the

jaw joint of the ancestral reptilian jaw joint was "retooled" and miniaturized to form middle ear bones (tympanic ring, hammer, and anvil). This process recapitulates at least partially during marsupial mammal development, presenting a great opportunity to infer intermediate stages and functional properties of MME detachment for which fossils are lacking. With research funding provided by a Discovery Award, the Weisbecker lab is calling for applications for a PhD project aimed at detailing the development of the mammalian middle ear to glean biomechanical information on its ancient function as a hearing/chewing intermediate. The successful applicant will be required to characterize the soft tissue environment of the developing marsupial middle ear, using histological and perhaps CT staining techniques. This project allows a good degree of intellectual freedom as to the protocols used, and can be conducted in a series of high-profile publications as chapters.

Good spoken and written English is essential. The applicant should ideally have a background in either comparative/veterinary anatomy, histology, digital 3D visualization, mammalian palaeontology, or late-stage developmental biology of vertebrates.

Acceptance for this PhD is contingent on a successful application for PhD funding. Overseas applications are encouraged, as the School of Biological Sciences at The University of Queensland has made available a number of competitive international PhD scholarships. For further information and conditions of employment, please visit http://www.biology.uq.edu.au/-scholarships. Students within Australia can apply for an Australian Postgraduate Award.

Please send expressions of interest, along with a CV, to Vera Weisbecker:

v.weisbecker@uq.edu.au

UQueensland TheoreticalEvolutionaryGenetics

We invite applications for a PhD position in theoretical evolutionary genetics at The University of Queensland (Brisbane, Australia).

The successful applicant will be jointly supervised by Dr. Jan Engelstädter and Dr. Daniel Ortiz-Barrientos and will work on the role of recombination during speciation. The goal of this funded project is to develop mathematical and computational models investigating how recombination rates are expected to evolve during speciation with gene flow and how this in turn affects the evolution of divergence and reproductive isolation. The project will be tightly linked to an empirical study system (theSenecio lautus species complex) and in particular benefit from, and in turn inform, ongoing whole genome sequencing and mapping projects in this species. For more details about our research, see our websites at http://engelstaedterlab.org/ and http://-www.ortizbarrientoslab.me . We are looking for a motivated student with strong quantitative skills and background either in evolutionary genetics or mathematical modelling. Applicants should possess a Bachelor's degree with Honours, Master of Science, MPhil or equivalent. Candidates with a non-biology degree (mathematics, physics, computer science) are encouraged to apply. Good communication skills, scientific curiosity and enthusiasm for research in evolutionary biology are essential. Applications close 19 January 2014.

Please note additional deadlines for International Scholarships at UQ. Even though January 19th is a preferred deadline, should we not fill the position, the following deadline will come into effect. You can study these dates here: http://www.uq.edu.au/grad-school/-international-student-scholarships . Funding can be obtained through a competitive international PhD scholarship scheme for overseas students interested in undertaking PhDs in the School of Biological Sciences at The University of Queensland. For more information about this scholarship scheme as well as formal requirements for PhD students and The School of Biological Sciences at UQ, see below.

Interested candidates should send a cover letter describing their motivation and research interests, CV, copy of degrees, and contact information for two academic references to: d.ortizbarrientos@uq.edu.au.

Daniel Ortiz-Barrientos School of Biological Sciences The University of Queensland Brisbane QLD 4072 Australia

phone: +61 7 336 57959 fax: +61 7 336 51655 http:/-/www.ortizbarrientoslab.me International PhD Scholarships in Biology at UQ

The School of Biological Sciences is a large and research intensive unit at the University of Queensland, one of Australia's most prestigious Universities. The School has broad expertise across the disciplines of ecology and evolution, molecular and quantitative genetics, developmental biology, behaviour, plant and animal physiology, and conservation biology. Our research programs span all scales of biological organisation, from molecules and cells, to organisms, populations, species and communities, and take advantage of study ani-

mal and plant systems in a large variety of habitats (see http://www.biology.uq.edu.au/ for detailed information on our research programs). The School is very pleased to announce a new initiative that has made available a number of PhD scholarships for talented International students who enroll in our PhD program in 2013.

Qualifications Applicants should possess a Bachelor's degree with Honours, Master of Science, MPhil or equivalent, and must be accepted into the PhD program at the University of Queensland. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (http://www.uq.edu.au/graduate-school/our-research-degrees).

Remuneration Living stipend (scholarship) of $24,653 per annum for 3 years which is tax free, with the possibility of a 6 month extension. International students normally pay international student fees of $32,200 per year, however individuals successful in gaining one of these scholarships will also be granted a full tuition-fee waiver.

The Application Process Interested students should identify potential supervisors within their research area of interest (http://www.biology.uq.edu.au/academic-staff) and contact them to discuss potential projects. Strong candidates will be invited to apply for entry to the PhD program, and if accepted into the program will be considered for the School of Biological Sciences International Scholarships on a competitive basis.

Enquiries For further information on the application process please

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UReading EvolutionaryProcesses

PhD Studentship, School of Biological Sciences, University of Reading, UK.

UNDERSTANDING EVOLUTIONARY PROCESSES USING FOSSIL AND EXTANT DATA

SUPERVISORS: Dr Chris Venditti, Dr Andrew Meade and Professor Mark Pagel

We are inviting applications for this Leverhulme Trust funded PhD studentship to start in April 2014 or October 2014. The award will cover UK/EU tuition fees and an annual stipend of at least £13,590 (tax free) for three years. The studentship is awarded on the basis of merit.

OVERVIEW: There is currently a great emphasis on bringing together morphological and molecular data with the goal to infer phylogenetic trees (or phylogenies) which contain extinct and extant species. Phylogenies chart the course of descent with modification among a group of species, yielding a 'family tree' analogous to a genealogy. Such trees are vital to study large scale evolutionary processes.

New statistical approaches which use phylogenies alongside other data about species (such as size or lifespan) now make it possible build a more nuanced picture of how the evolutionary process unfolded. In addition, these methods allow us to estimate what extinct and ancestral animals looked like and how the behaved. These new approaches used in combination with fossil data have the potential to provide new insight in to macroevolutionary processes and enable us to better understand how biodiversity accumulates.

This studentship forms an integral part of a research project on 'The evolutionary paths to diversity and innovation' supported by a Leverhulme Trust Research Programme Grant. The project will involve a series of investigations designed to understand how evolutionary divergence accumulates through time and interacts with biological novelty. The project will not be focused on one specific taxonomic group - hypotheses will be tested across a wide range of phylogenies.

TRAINING: The student will received extensive training in phylogenetic statistical modelling (including Bayesian phylogenetics and comparative methods) high performance computing, and management and manipulation of large datasets. The student will also engage with the Reading Researcher Development Program.

ELIGIBILITY: Applicants should hold a minimum of a UK Honours Degree at 2:1 level or equivalent in a relevant subject. A relevant Masters level qualification is desirable but not necessary. Please note that due to restrictions on the funding this studentship is for UK/EU applicants only.

HOW TO APPLY: Application Procedure: Please send a Curriculum Vitae (including names and contact details of at least two referees) and Covering Letter outlining your suitability to: Mrs Sarah Swan, Research Manager, the School of Biological Sciences (sbsresearch@reading.ac.uk).

APPLICATION DEADLINE: 20th February 2014

Informal Enquiries are encouraged and should be directed to Dr Chris Venditti (c.d.venditti@reading.ac.uk).

Chris Venditti <c.d.venditti@reading.ac.uk>

USouthBohemia AntTermiteEvolution

Doctoral (PhD) Studentship in Tropical Ecology:

Fayle Lab, Biology Centre, the Academy of Sciences & University of South Bohemia, the Czech Republic

The Effects of Forest Fragmentation on Ant-termite Food Webs and Consequences for Soil Properties.

A highly motivated postgraduate student is sought to join a project assessing the way that interactions between soil dwelling ants and termites change, and the consequences of this for soil properties, when tropical rainforest is logged, fragmented and converted into oil palm plantation in Malaysian Borneo. The student will quantify interactions using field collections and experiments linking the soil biota to soil properties and nutrient redistribution rates, environmentally constrained null models of species co-occurrence and molecular identification of gut contents. There will also be opportunities to develop the project in a direction of the student's own choosing. Duties will include spending extensive periods of time in the field in Malaysian Borneo. The successful applicant will be supervised by Tom Fayle and Vojtech Novotny. The studentship will also provide the opportunity to collaborate with the Stability of Altered Forest Ecosystems project (SAFE), the world's largest experimental forest fragmentation project.

Funding: Fully funded tuition, research and living expenses

Duration: 4 years

Eligibility: A completed MSc degree is required. Applicants from all countries are eligible.

Information on our research team: http://-www.entu.cas.cz/png/cv-novotny-vojtech-lab.html Location: Ceske Budejovice, Czech Republic.

More details on the position: http://www.entu.cas.cz/-png/brc-vacancies.htm Application process: To apply please send a CV, contact details for three references, and cover letter stating qualifications, previous work and motivation to Tom Fayle (tmfayle@gmail.com). The deadline for applications is February 15th 2014, with a start date of April 1st.

Research fields: ecology, conservation biology, tropical forests, ants

tmfayle@gmail.com

USouthBohemia InsectPlantEvolution

Doctoral (PhD) Studentship in Tropical Ecology

Novotny Lab, Biology Centre of the Academy of Sciences & University of South Bohemia, the Czech Republic

We are seeking a highly motivated postgraduate student to join our international team studying tropical plant-insect food webs. The successful applicant will have strong background in entomology, botany, community ecology, molecular ecology, phylogenetic analysis and/or biostatistics. He/she will be supervised by Vojtech Novotny and expected to develop a research programme on community ecology of insect-plant interactions, using our excellent field facilities in Papua New Guinea, in collaboration with our international partners.

Funding: Fully funded tuition, research and living expenses Duration: 4 years Eligibility: A completed MSc degree is required. Applicants from all countries are eligible. Information on our research team: http://-www.entu.cas.cz/png/cv-novotny-vojtech-lab.html Location: Ceske Budejovice, Czech Republic. More details on the position: http://www.entu.cas.cz/png/brc-vacancies.htm Application process: Send the application including CV, names of three referees, and a cover letter stating your previous work, qualification and motivation by email to Prof. Vojtech Novotny [novotny@entu.cas.cz]. Review of applications will begin on 15th February and will continue until the position has been filled. The position is available from 1st April 2014.

Research fields: ecology, conservation biology, tropical forests, insect-plant interactions

tmfayle@gmail.com

"Suarez, Harold" <Harold.Suarez@coyotes.usd.edu>

USouthDakota Bioinformatics

Department of Biology University of South Dakota

Applications are invited for a PhD student position available at the Department of Biology, The University of South Dakota, USA.

We are seeking for an exceptional and highly motivated candidate in the field of bioinformatics with some background in genomics to work on the epigenetics regulation of plant response to stresses project. The PhD student will be responsible for transcriptome, genome, and methylome analysis. These analyses will include de novo assembly of transcriptome, in silico expression analysis, gene network analysis, gene and small RNA annotation, and other related analyses.

The successful candidate will be expected to have specific expertise in writing of programs (e.g. C++, Java, Perl, Python), working knowledge about biological databases, hands-on experience with biological data (especially microarray and next generation sequencing data), computer skills in a UNIX/LINUX environment, and excellent communication and organization skills.

Minimum Degree Required: the student should have a BSc, MSc. or equivalent in Biology/Bioinformatics/Computer Science

Application Process: The position is available starting August 2014. The position will remain open until March 15, 2014. However, to ensure full consideration, application materials should be received no later than February 15, 2014.

International students must take the general test GRE and scores of 40th percentile or higher for the verbal and quantitative tests are recommended, but there is no formal minimum score required for admission. TOEFL scores need to be at least 550 (paper-based), 213 (computer), or 79 (Internet-based). IELTS can be taken instead, with a minimum score of 6.0. Full details about application process are given in the links below.

http://www.usd.edu/graduate-school/international-admissions.cfm http://www.usd.edu/graduate-school/how-to-apply.cfm Applicants should send a resume and a cover letter describing previous experiences and skills to Dr. Abdelali Barakat (Abdelali.barakat@usd.edu). http://www.usd.edu/-arts-andsciences/ biology/abdelali-barakat.cfm

USouthDakota EvolutionVision

MS/PhD in the Evolution of Vision, USD Fall 2014

I am seeking motivated students who are interested in pursuing an integrative degree studying the evolution of vision. My lab studies the visual ecology and evolutionary genomics of vision in mantis shrimp (Crustacea, Stomatopoda). Potential projects include studying the ontogenetic changes in molecular components of vision, using comparative genomics to investigate molecular aspects of vision across species, and studies of visual pigment protein structure and function. Although research projects in my lab are diverse, all projects are motivated by evolutionary questions and are linked by the focus on vision.

You can apply through the USD Graduate School: http://www.usd.edu/graduate-school/index.cfm To ensure full consideration, applications should be completed by February 15.

Ideal candidates would be students interested in combining the fields of visual ecology, evolutionary genomics, and protein biochemistry. Students (either MS or PhD) will be supported through a TA/RA position.

Please contact me (Megan.Porter@usd.edu) with a CV if you are interested in joining my lab.

Megan Porter Assistant Professor Department of Biology University of South Dakota Vermillion, SD 57069 Office: 605-677-6176 Megan.Porter@usd.edu

"Porter, Megan L" <Megan.Porter@usd.edu>

USouthamptonUK DomesticationGenomics

Graduate position: USouthamptonUK.DomesticationGenomics

** Sorry, only available to UK/EU students **

I am looking for a highly motivated student to work on the domestication genomics of eggplant/aubergine. The studentship is fully funded with fees paid for and a

stipend at current RCUK rates of £13,726 per annum.

Below is the full description and it is also available at http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=50917 Please email me with informal queries (M.chapman@soton.ac.uk) but note that a formal application would need to be made through the Southampton website (details below).

Crop domestication and the repeatability of phenotypic evolution

Domestication represents the outcome of strong (human-mediated) selection, leading Darwin to suggest that the study of domestication would help us understand the process of evolution via natural selection. With recent molecular genetic techniques the study of domestication has shed light on some important evolutionary questions; however one question has received very little attention: how repeatable is evolution?

This studentship will use a high resolution genetic mapping approach using next generation sequencing to identify genomic regions that control specific domestication-related traits in two independently-derived lineages of cultivated aubergine (eggplant). Aubergine domestication conforms to the typical domestication syndrome, i.e. selection for larger, palatable fruits, reduction in plant defences and alterations in plant architecture, however it stands out in being one of the few crops that was domesticated more than once. Being able to overlay domestication QTL with candidate domestication genes will confirm the extent of parallel molecular and phenotypic selection during domestication.

The student will receive full training in all required areas, including bioinformatics and statistical analysis. The student will also be involved in generating and analysing data concerning other aspects of domestication or adaptation genomics.

Funding Notes: The project is funded for 3 years and welcomes applicants from the UK and EU who have, or expect to obtain, at least an upper second class degree in Biological Sciences or allied subjects. Funding will cover fees and a stipend at current research council rates of £13,726 per annum.

Due to funding restrictions this position is only open to UK/EU applicants

References: Applications will be considered in the order that they are received, and the position will be considered filled when a suitable candidate has been identified.

General enquiries should be made to Dr Mark Chapman at m.chapman@soton.ac.uk

Applications for an MPhil/PhD in Biological Sciences should be submitted online at https://studentrecords.soton.ac.uk/BNNRPROD/-bzsksrch.P_Login?pos=4973&majr=4973&term=-201415 Please enter Dr M Chapman in the field for proposed supervisor.

Any queries on the application process should be made to pgafnes@soton.ac.uk

Dr. Mark A. Chapman M.Chapman@soton.ac.uk +44 (0)2380 594396

Centre for Biological Sciences University of Southampton Life Sciences Building 85 Highfield Campus Southampton SO17 1BJ

“Chapman M.” <M.Chapman@soton.ac.uk>

UStirling TreeGeneticDiversity

Maintenance of genetic diversity and local adaptation of Scots pine (Pinus sylvestris) in the UK

A three year PhD project is available at the University of Stirling, Scotland, UK, working on genetic diversity and local adaptation of Scots pine (Pinus sylvestris) in the UK. The successful applicant will be based in the research group of Professor Alistair Jump (University of Stirling) and will work closely with Dr Stephen Cavers (CEH Edinburgh) with additional project input from Prof. Richard Ennos (University of Edinburgh) and Dr Joan Cottrell (Forest Research). The project is funded at the basic UK research council rate by the University of Stirling, the Scottish Forestry Trust and CEH.

This PhD project will use existing data and landscape models to assess historical migration scenarios and the development of patterns of neutral and adaptive genetic structure. This will be complemented by fine-scale analysis of selected native pinewoods to test hypotheses on the maintenance of high within-population diversity and to explore the consequences of human landscape modification for genetic diversity. Published genetic and palaeoecological data will be integrated with functional diversity and trait data held by the Centre for Ecology and Hydrology (CEH Edinburgh) and the University of Edinburgh. The work will centre on three main components: 1) Understanding the development of genetic structure during historical Scots pine migration. 2) Determining how high within-population genetic diversity is developed and maintained. 3) Assessing how native trees and non-local planted trees interact

to shape the future diversity of Scots pine.

More detailed information is available by contacting Prof. Alistair Jump at a.s.jump@stir.ac.uk

Applicants must be EU citizens and hold a minimum of a Batchelors degree at 2:1 or above (or equivalent) in a related subject. You will ideally possess relevant experience in molecular ecology and or demographic modelling. You should send a current CV and a covering letter to Prof. Jump at the address below by 9 am UK time on Monday 10th February 2014. The covering letter must detail clearly your motivation for pursuing this research project and set out how your experience makes you suitable for the post. You should also arrange for two referee statements to be sent directly to Prof. Jump by the closing date.

Alistair S. Jump Professor of Plant Ecology

Biological and Environmental Sciences School of Natural Sciences University of Stirling Stirling FK9 4LA UK

Tel: +44 1786 467848 Fax: +44 1786 467843 www.biogeo.org www.sbes.stir.ac.uk Twitter: @AlistairJump

The University of Stirling has been ranked in the top 12 of UK universities for graduate employment*. 94% of our 2012 graduates were in work and/or further study within six months of graduation. *The Telegraph The University of Stirling is a charity registered in Scotland, number SC 011159.

Alistair Jump <a.s.jump@stir.ac.uk>

UTuebingen EcologicalPlantEpigenetics

The Plant Evolutionary Ecology group (http://-www.uni-tuebingen.de/PlantEvoEco) at the University of Tübingen in Germany invites applications for a

PHD POSITION IN ECOLOGICAL PLANT EPIGENETICS

The PhD student will study epigenetic diversity of grassland plants and test for its relationships with land use and other environmental factors, as well as with plant genetic and phenotypic diversity. Epigenetic diversity is a level of biodiversity about which we so far know very little. The PhD student will thus contribute to pioneering work in a novel field of research.

The PhD project will be part of the Biodiversity Exploratories (www.biodiversity-exploratories) and the Evolution and Ecology Research School Tübingen (EVEREST). It will thus provide excellent opportunities for further training and for networking with ecological and evolutionary researchers from all disciplines.

We are looking for a student with a strong interest in evolutionary ecology, genetic diversity and/or epigenetics. The successful candidate should have a MSc in biology and a good command of English. Previous experience with molecular methods, e.g. in population or conservation genetics, or epigenetics, are a plus.

The position is funded for 3 years. Salary is at the scale 13 TV-L (65%). Starting date is spring 2014 but can be negotiated.

The University of Tübingen is one of the oldest and most respected universities in Germany, and Tübingen a beautiful university town with a high quality of life. The Plant Evolutionary Ecology group at the University of Tübingen studies the ecology, evolution and genetics of plants in a changing environment, with ecological epigenetics as one of our current main foci.

If you are interested in this position, please send your CV, along with a letter of motivation and the contact details of two references as a single PDF to oliver.bossdorf@uni-tuebingen.de. Deadline for applications is 20 February 2014. For questions, please use the same email address as above.

The University of Tübingen aims at increasing the share of women in research and teaching and particularly encourages female scientists to apply.

Prof. Dr. Oliver Bossdorf Plant Evolutionary Ecology University of Tübingen Auf der Morgenstelle 1 D-72076 Tübingen, Germany Phone: +49 7071 29 78809 oliver.bossdorf@uni-tuebingen.de http://www.uni-tuebingen.de/PlantEvoEco oliver.bossdorf@uni-tuebingen.de

UWyoming EvolutionCognition

*** FUNDED PH.D. STUDENTSHIPS AVAILABLE STARTING SEPTEMBER 2014 ***

*** THE EVOLUTION OF COMPLEX COGNITIVE ABILITIES IN ANIMALS ***

Supervisor: Dr. Sarah Benson-Amram University of Wyoming, Department of Zoology and Physiology,

Laramie, WY, USA

Enthusiastic and motivated students are encouraged to apply for Ph.D. positions in the lab of Dr. Sarah Benson-Amram at the University of Wyoming. Candidates will join a new research group working on the evolution of complex cognitive abilities in animals. Opportunities are available to work on both wild and captive birds and carnivores. Positions ideally start this coming Fall (September 2014), but alternate start dates are possible.

If you are interested in joining the lab or would like more information about the positions, please follow the instructions at http://www.st-andrews.ac.uk/ ˜ sba2/-contact.html The Department of Zoology and Physiology at the University of Wyoming has particularly strong and growing programs in Neuroscience and in Ecology and Evolutionary Biology. PhD students in my lab will have the opportunity to be members of the interdepartmental Program in Ecology and to interact with researchers at the Berry Biodiversity Conservation Center.

The University of Wyoming is located in Laramie, a college town in the heart of the Rocky Mountain West. Nestled between two mountain ranges, Laramie has more than 300 days of sunshine a year and is home to year-round outdoor activities including hiking, camping, rock climbing, downhill skiing, cross-country skiing, fishing and mountain biking. Laramie is also near many of Colorado's major cities and university communities (e.g. Fort Collins, Boulder, and Denver).

The University of Wyoming is an Affirmative Action/Equal Opportunity employer. All qualified applicants receive consideration for employment without regard to race, color, religion, gender, pregnancy, sexual orientation, age, national origin, disability, marital, veteran or any other legally protected status.

Sarah Benson-Amram <ndovus@gmail.com>

UZurich 2 DolphinGenomics

Two 3-year PhD positions on dolphin genomics available at the University of Zurich

Overview: I am seeking two highly motivated PhD students for my recently funded project "Male career moves - the genomics of cooperative behaviour and alliance formation in male bottlenose dolphins" at the Evolutionary Genetics Groups of the Anthropological Institute and Museum, University of Zurich (UZH), Switzerland (https://www.uzh.ch/-cmsssl/anthro/Research/egg-3.html). My group has broad interests in evolutionary genetics and genomics of primates and delphinids. The work will be conducted in close collaboration with Prof Richard Connor at the University of Massachusetts - Dartmouth (US), Simon Allen of Murdoch University (Australia), and Prof Bill Sherwin at the University of New South Wales (Australia).

The work will entail a combination of genomic laboratory work at UZH and fieldwork in Shark Bay, Western Australia. Both positions are for 3 years. Remuneration is according to Swiss PhD salary scales (CHF 48'540 p.a. plus employer social security contributions). Both candidates are expected to spend at least 4 months/year in the field. Start date is envisaged to be 1st May 2014.

Background: Helping, defined as actions or traits that will benefit other individuals, provides one of the most fascinating conundrums in evolutionary biology. Cooperation is not uncommon in nature. It occurs on all levels of biological organization, from organelles and cells, to individuals or groups of the same species, and even between individuals of different species. Yet, how can helping evolve and be maintained when it seems to be prone to exploitation by either free-riding or defecting individuals? Ever since Hamilton's seminal work on kin selection, genetic relatedness has been recognized as a critical variable necessary for the full understanding of the evolutionary basis of any social phenomenon. Relatedness is important, because individuals can increase their 'inclusive' fitness by assisting their relatives' reproduction thereby increasing the transmission success of the individual's own alleles by descent.

One of the most striking examples of cooperation is found in the Indo-Pacific bottlenose dolphins of Shark Bay, Western Australia, where male dolphins cooperate in pairs and trios ('1st order alliances') to form 'consortships' with individual females for the purpose of gaining exclusive mating access. This research will capitalize on an extremely well-studied, cooperative society, consisting of long-term behavioural, genetic and spatial datasets. We will employ a large-scale RAD-tag approach in order to characterise and score tens of thousands of single nucleotide polymorphisms (SNPs) in each dolphin. Based on the SNP data, relatedness will be estimated and pedigrees will be reconstructed to unprecedented levels of precision and accuracy. Y-chromosomal markers, using next-generation sequencing techniques, will be developed in order to increase our ability to find paternal relatives.

This research will enable far-reaching inferences about genetic factors in the formation and maintenance of one of the most complex mammalian societies known. Knowledge of any genetic correlates of these behaviours will offer powerful comparative data for our own species and others, opening many further fields of research. The potential convergence with human alliances and implications for the social complexity hypothesis means that the results will be of great interest to a diverse audience of biologists, cognitive psychologists, anthropologists, and political scientists.

Requirements: Successful candidates will have a Diploma/Masters degree in a relevant discipline, strong bioinformatic, genomic and genetic skills, some background in evolutionary genetics and experience with fieldwork on marine mammals or primates. For field work, a valid driver's licence and a restricted coxswains ticket are essential (the latter can be obtained in a one-week course in Perth prior to fieldwork). The ideal candidates will have strong oral and written communication skills in English and the ability to work and share ideas in a collaborative environment. Knowledge of German language is not essential, but may help with everyday life whilst in Zurich.

The students will work in a dynamic research environment and have access to cutting edge next generation sequencing techniques, a behavioural database spanning 30+ years and biopsy samples from over 700 individuals. The Anthropological Institute and others at UZH host several seminar series with high-calibre international speakers. The two PhD positions will be embedded in the Zurich Life Science Graduate School's program in Evolutionary Biology (http://-/www.lifescience-graduateschool.ch/).

Applications: Interested students should send their application package to

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

WilliamandMary MarineLifeHistoryEvolution

The Allen Lab in the Biology Department at the College of William and Mary is seeking applications from outstanding undergraduates to our MS program. Research in the Allen Lab is focused on the evolution of life histories in marine invertebrate animals. We currently have funding from the NSF for one new MS student who will focus on the evolution of offspring provisioning in seastars. Interested students should have strong backgrounds in ecology, evolution and invertebrate biology. Previous research experience is preferred, regardless of the discipline in which it was conducted. Potential applicants are encouraged to contact Dr. Allen directly in advance of the **Februrary 1st** application deadline (jdallen@wm.edu). This initial contact should include a current CV and a brief description of your past research experiences and interest in joining our lab. Detailed information about ongoing work in the Allen Lab can be found by following the link at the bottom of this post.

Jonathan Allen Assistant Professor College of William and Mary Department of Biology Integrated Science Center 3035 P.O. Box 8795 Williamsburg, VA 23187-8795 (757) 221-7498 http://wmpeople.wm.edu/site/-page/jdallen jdallen@WM.EDU

iDivLeipzigGermany ApeHabitatSustainability

PhD 'Indicators of sustainability in ape habitat' Human impact in the form of bushmeat hunting, logging, mining and large scale industrial agriculture is rapidly increasing and putting enormous pressure on remaining ape populations and sympatric wildlife. Increasing conservation efforts in- and outside protected areas may lower these pressures. However, there is currently a lack of effective indicators which (1) are easy to derive at low costs, but with high spatio-temporal resolution and (2) are reliable measures of the progress that has been made in improving sustainability of natural resource use across ape habitats.

We are seeking a highly motivated PhD student with excellent quantitative skills and a strong background in sustainability science, ecology, socio-economics or a related field to join our team. The goal of the envisioned research project is to develop a set of indicators which reflect the current, and expected future, pressures on ape habitats, the status of remaining ape populations and sympatric wildlife, and to determine the extent to which sustainability of natural resource use has improved or deteriorated. Various data sources are of potential use for this project including wildlife mon-

itoring and socio-economic databases, remote sensing imagery etc. A particular focus will be on the development of composite indicators reflecting complex social-ecological system functioning, rather than single level indicators. The work will require traveling to ape habitat countries. The successful candidate will need excellent quantitative, statistical, GIS and programming skills and must be able to deal with large and heterogeneous datasets. Most important for this project will be the ability to think innovatively and to find unconventional solutions. For travelling to ape range countries, proficiency in French is required. The position is fully funded for four years from April 2014 onwards. The place of work will be at the German Centre for Integrative Biodiversity Research (iDiv), located in Leipzig, Germany.

Please send a CV, cover letter and the contact details of two referees to Dr. Hjalmar Kuehl (kuehl@eva.mpg.de). Please reference 'PhD sustainability indicators' in the subject line.

arandjel@eva.mpg.de

Jobs

AustinTexas EuryceaSalamanderBiol

The City of Austin, Texas, Watershed Protection Department is now hiring a full-time, permanent Environmental Scientist Senior position to work on endangered/threatened Eurycea salamander monitoring and conservation programs in the Austin area. Information about the job and the application form is available on the City of Austin website (https://-www.austincityjobs.org/postings/41402). Applications will be accepted through 02/02/2014.

This position will be responsible for supervision of federally endangered Barton Springs and Austin Blind salamander and federally threatened Jollyville Plateau Salamander population management activities including coordinating and conducting wild population surveys via snorkeling and scuba diving and surface drive survey methods, captive population management, managing habitat improvement capital projects, conducting life history and toxicological scientific research and providing emergency response to events that threaten wild

populations. Candidate must be a proficient swimmer and experienced in snorkeling.

Essential duties and functions, pursuant to the Americans with Disabilities Act, may include the following: 1. Design and implement scientific monitoring of wild populations of endangered aquatic Barton Springs and Austin Blind salamanders population at 4 spring locations via snorkel and scuba diving surveys.

2. Oversee and implement occupancy studies and monitoring of wild populations of the Jollyville Plateau Salamander at multiple spring sites in northwest Austin.

3. Ensure compliance of scientific activities and Barton Springs recreational and grounds management operations with U.S. Fish and Wildlife Service permits including preparation and submittal of annual reports.

4. Oversee captive salamander management activities following industry standard protocols.

5. Review and conduct scientific research on life history, behavior, movement, survival, mortality, toxicity of chemical and physical hazards and genetics of aquatic salamander species and ecology and function of salamander habitat.

6. Establish, implement and adaptively revise captive salamander reintroduction protocols.

7. Analyze data with advanced statistical methods or mathematical models, prepare and publish scientific reports based on monitoring and research activities.

8. Direct supervision of 3 full-time scientists and seasonal temporary employees including work assignment, coaching, and work review.

Sincerely, Chris Herrington, PE

City of Austin Watershed Protection Dept 505 Barton Springs Rd, 11th Floor Austin, TX 78704

(512) 974-2840 ofc (512) 974-2846 fax

Email: Chris.Herrington@AustinTexas.Gov Email: Chris.Herrington@AustinTexas.Gov

Austin Texas SalamanderConservation

Please see Special Instructions for more details.

This position will be responsible for supervision of federally endangered Barton Springs and Austin Blind salamander and federally threatened Jollyville Plateau Salamander population management activities including coordinating and conducting wild population surveys via snorkeling and scuba diving and surface drive survey methods, captive population management, managing habitat improvement capital projects, conducting life history and toxicological scientific research and providing emergency response to events that threaten wild populations. Candidate must be a proficient swimmer and experienced in snorkeling. If selected for this position, you will be required to obtain SCUBA certification within 90 days of hire. If selected for this position, you will be asked to provide proof of your education. A valid Texas Class C Driver's License is required. If selected as a top candidate, your driving record will be evaluated to ensure it meets the City's Driver Safety Standards. Must be able to conduct field work and work in various weather conditions and terrains. Must be able to lift/carry/push/pull up to 50 lbs. (e.g. moving compressed oxygen tanks, carrying field equipment) When completing the City of Austin employment application: -Please be sure to detail on the application all prior work experience that is related to this position, including any work history with the City of Austin. -A cover letter and resume must be submitted with the employment application, but does not substitute for a complete employment application. -A detailed, complete employment application will help us better evaluate your qualifications and will be used to determine salary if you are selected for this position.

Position Information

Posting Title: Environmental Scientist or Environmental Scientist Senior Job Requisition Number: COA071949 Position Number: 107774 Job Type: Full-Time Division Name: Environmental Resources Mgmt

Minimum Qualifications

*Bachelor's degree in Environmental Science, Life Science, Natural Science or related field plus six years of relevant experience.

*Master's degree in Environmental Science, Life Science, Natural Science or related field plus four years of relevant experience.

*One additional year of experience may substitute for one year of the required education with a maximum substitution of four years.

Notes to Applicants

This position will be responsible for supervision of federally endangered Barton Springs and Austin Blind salamander and federally threatened Jollyville Plateau Salamander population management activities including coordinating and conducting wild population sur-

veys via snorkeling and scuba diving and surface drive survey methods, captive population management, managing habitat improvement capital projects, conducting life history and toxicological scientific research and providing emergency response to events that threaten wild populations.

Candidate must be a proficient swimmer and experienced in snorkeling.

If selected for this position, you will be required to obtain SCUBA certification within 90 days of hire.

If selected for this position, you will be asked to provide proof of your education.

A valid Texas Class C Driver's License is required. If selected as a top candidate, your driving record will be evaluated to ensure it meets the City's Driver Safety Standards.

Must be able to conduct field work and work in various weather conditions and terrains.

Must be able to lift/carry/push/pull up to 50 lbs. (e.g. moving compressed oxygen tanks, carrying field equipment)

When completing the City of Austin employment application: - Please be sure to detail on the application all prior work experience that is related to this position, including any work history with the City of Austin. - A cover letter and resume must be submitted with the employment application, but does not substitute for a complete employment application. - A detailed, complete employment application will help us better evaluate your qualifications and will be used to determine salary if you are selected for this position.

Pay Range: $26.80 - $34.82 per hour Hours: 40 hours per week, Monday-Friday Job Close Date Departments may close a posting at their discretion: 02/02/2014 Open Until Filled: No Type of Posting: External Department: Watershed Protection Regular/Temporary: Regular Grant Funded or Pooled Position: Not Applicable Category: Professional Location: 505 Barton Springs Road, Austin, Texas

Preferred Qualifications

Knowledge of state and federal endangered species regulations, prior work experience with Eurycea salamanders, experience with design and analysis of capture-mark-recapture data, captive amphibian management, and ability to conduct salamander field surveys including by SCUBA diving are preferred.

Excellent writing and presentation skills. Duties, Functions and Responsibilities

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Barcelona Internship EvolutionaryGenomics

INTERNSHIP IN EVOLUTIONARY GENOMICS

January 23 2014, Barcelona

Internship offered in the Evolutionary Genomics Group led by M.Mar Albà at IMIM-UPF in Barcelona (evolutionarygenomics.imim.es). The candidate will work on a project to identify and characterize recently emerged genes in mammalian genomes using deep transcriptomics RNA-Seq data. The applicant should have a strong interest in evolutionary biology and ideally some programming skills. A strong academic record is a must. The research period can be used to complete an MSc or BSc project. Possibility to continue with a PhD.

The contract will initially be for 6 months but it could be extended for another 6 months if required. The expected starting date is any time between march and september 2014, brut salary 600-1000 euros per month depending on the candidate qualifications.

To apply please send an expression of interest and CV to the group coordinator, M.Mar Albà, at _malba@imim.es_

malba@imim.es

BielefeldU BehaviouralEvolution

Scientific Assistant Position, Department of Animal Behaviour, Bielefeld University, Germany

A scientific assistant position (Akademischer Rat auf Zeit, A13) is available in the Department of Animal Behaviour at Bielefeld University from June 1st 2014 or soon thereafter. The position is available for six (3+3) years at the German Civil Service Payment Scale A13 (minimum salary after tax of 36000 euro per annum) which is comparable to a Senior Lecturer/Reader salary in the UK.

We seek a bright and highly motivated postdoctoral researcher who ideally has several years of postdoc experience in a relevant topic (e.g. animal behaviour, behavioural ecology, population ecology, evolutionary ecology). The scientific assistant will be responsible for developing his or her own research agenda while also significantly contributing to one of the three core model systems of the department (zebra finches in the lab, birds of prey in the field, sea lions and fur seals in the field). It is expected that he/she will be able to obtain significant third-party research funding. The ideal candidate will be able to work both independently and as part of a multidisciplinary team. The teaching duties of a scientific assistant are 4 hours per week during semesters or 120 hours per annum. In addition, the successful candidate is expected to contribute to the running of the Department of Animal Behaviour which is headed by Oliver Krüger and Joe Hoffman.

The successful candidate will be based at the Department of Animal Behaviour at Bielefeld University (www.uni-bielefeld.de/biologie/animalbehaviour/-home.html). The department is the oldest of its kind in Germany and currently hosts six principal investigators, seven postdocs and twenty PhD students. It offers a stimulating international environment and an excellent research infrastructure including a brand new molecular laboratory. The working language of the Department is English. Together with the Evolution and Animal Ecology research groups housed in the same building, there are some 50 scientists and PhD students from over ten different countries working on related topics in behaviour, ecology and evolution.

Bielefeld is a city of 325,000 inhabitants with an attractive historical centre and easy access to the Teutoburger Wald for hiking and other outdoor pursuits. It offers a high standard of living and is well connected to most major European cities.

To apply for the position, please provide: (i) a letter of motivation including a 3-5-page statement of your research interests, how you would contribute to the core model systems in the department, relevant skills and experience; (ii) a CV including publication list; (iii) names and contact details of three referees willing to write confidential letters of recommendation. All materials should be emailed as a single PDF file to: oliver.krueger@uni-bielefeld.de.

The application deadline is March 10th 2014 and interviews will take place in April 2014. The preferred start date is June 1st 2014 but is flexible and will depend on the timeframe of the most qualified applicant. For further information, please see http://www.uni-bielefeld.de/biologie/-animalbehaviour/home.html or contact Oliver Krüger via email (oliver.krueger@uni-bielefeld.de) with any informal inquiries.

The University of Bielefeld is an equal opportunity employer. We particularly welcome applications from women and handicapped people. Given equal suitability, qualifications and professional achievement, women or handicapped people will be given preference, unless particular circumstances apply.

With best wishes,

Oliver Krüger

Prof. Dr. Oliver Krüger Department of Animal Behaviour VHF Bielefeld University PO Box 10 01 31 33501 Bielefeld Germany Tel: +49-521-1062842 Fax: +49-521-1062998 oliver.krueger@uni-bielefeld.de www.uni-bielefeld.de/biologie/vhf/OK "\"Oliver Krüger\"" <oliver.krueger@uni-bielefeld.de>

CityUNewYork EvolBiology

FACULTY VACANCY ANNOUNCEMENT

York College of The City University of New York (CUNY) invites applications for two tenure-track positions at the Assistant or Associate Professor level in Biology to begin Fall semester 2014. Instructional responsibilities include lecture and laboratory courses in the faculty's field of specialty as well as other major and non-major courses as needed by the Department. Candidates must demonstrate a strong interest in and commitment to undergraduate teaching and the ability to develop and maintain an active research program supported by external funding. The academic program, instructional and research equipment, and grant programs available at York College can be found at the following link:http://www.york.cuny.edu/-academics/departments/biology . QUALIFICATIONS Ph.D. degree in area(s) of experience or equivalent. Also required are the ability to teach successfully, demonstrated scholarship or achievement, and ability to cooperate with others for the good of the institution.

COMPENSATION CUNY offers faculty a competitive compensation and benefits package covering health insurance, pension and retirement benefits, paid parental leave, and savings programs. We also provide mentoring and support for research, scholarship, and publication as part of our commitment to ongoing faculty

professional development.

HOW TO APPLY Candidates for faculty positions should minimally provide a CV/resume and statement of scholarly interests. Additional requirements may appear below.

Please submit your application online through this job board as follows: - Go to www.cuny.edu and click on Employment - Select "Apply Now" then create or login to a user account and provide the requested information. - Click on Job Postings on CUNYfirst - Click Search job listings - Click on More search options - Search by Job Opening ID number # 9965

*In order to be considered for this position, applicants must include a cover letter, CV/resume, a statement of research and teaching experience, and the contact information for three professional references. Please upload these as ONE document in rtf, doc, or pdf format.

EQUAL EMPLOYMENT OPPORTUNITY We are committed to enhancing our diverse academic community by actively encouraging people with disabilities, minorities, veterans, and women to apply. We take pride in our pluralistic community and continue to seek excellence through diversity and inclusion. EO/AA Employer.

Dr. Laura Beaton Assistant Professor Department of Biology School of Arts and Sciences York College, City University of New York 94-20 Guy R. Brewer Blvd. Jamaica, NY 11451 718-262-5253 lbeaton@york.cuny.edu

Laura Beaton <lbeaton@york.cuny.edu>

Cleveland MNH CollectionsManager Entomology

Collections Manager - Invertebrate Zoology

Summary: The Collections Manager of Invertebrate Zoology will oversee the general management of Entomology, Malacology and other invertebrate collections within the department.

Essential Duties and Responsibilities Manage the modern curation of entomological, malacological, and general invertebrate zoological specimens for the collection. Manage access to collections by students, visiting scientists and volunteers. Oversee management of the Museum DNA Lab including student training, data generation, and supplies management; Participate in curator research projects as well as develop an independent research program including fieldwork, securing external funding, and writing manuscripts for publication.

Education and/or Experience: The Collections Manager must hold a graduate degree (Masters or higher) in Invertebrate Zoology, Entomology, or related field. Priority will be given to applicants with taxonomic expertise in non-holometabolous terrestrial arthropods including Polyneoptera, Paraneoptera, non-neopteran hexapods, and arachnids. Experience in biological collections management and DNA Lab management and data generation required. Experience in field and laboratory research including publications on original research in peer-reviewed scientific journals required. Experience planning, directing and reporting on research of self and staff. Must have the ability to deal effectively with public and private agencies and individuals in matters relating to invertebrates and the Museum. Experience with computer operating systems and database management required.

TO APPLY Please send a cover letter, a one (1) page curatorial and research statement, curriculum vitae (CV), and three (3) professional references to: Human Resources Cleveland Museum of Natural History One Wade Oval Drive, University Circle Cleveland, Ohio 44106 Hr@cmnh.org

http://cmnh.org/site/AboutUs/-CareerOpportunities.aspx No phone calls, please.

Review of applications will begin March 1, 2014

Job Announcement Number: 1402

The Cleveland Museum of Natural History is an EQUAL OPPORTUNITY, ADA EMPLOYER and a SUBSTANCE-FREE WORKPLACE

gavin.svenson@gmail.com

Denver MuseumNatureScience CuratorPaleontology

Position: Curator of Paleontology

Description: The Denver Museum of Nature & Science seeks a curator in the Department of Earth Sciences to grow its scholarship, to curate and expand its North American fossil collections, and to help inspire public understanding of, and involvement in, science. The ideal candidate's scholarship will involve field-based paleontological research on fossil vertebrates. Areas of specialty might include paleoecology, paleobiology, evo-

lution or related fields. Successful candidates will have a research program with a focus in western North America and an established track record of publication and funding. The successful candidate will be a phenomenal public speaker and will regularly engage the general public and media.

The Denver Museum is an exciting place to do science with an active curatorial staff spanning the fields of anthropology, zoology, space sciences, health sciences and earth sciences. The museum offers opportunities to engage with the general public through educational programming and exhibits and to work with a large, highly-trained volunteer corps. The museum has outstanding conservation, volunteer management, and library staff. The museum has strong local public support, has a new collections facility with excess storage and is surrounded by well-exposed, fossil-bearing sedimentary rocks.

The Earth Science Department is an outwardly focused and collegial team that engages in international research but has strong emphasis on the geologic and paleontologic record of the American West. Current staff expertise is in invertebrate and vertebrate paleontology and paleobotany, and each curator has at least one scholarly project in Colorado. The Department's collections are sizeable and are growing; their composition and history are described at http://www.dmns.org/-science/collections/. The Department also has a fully staffed preparation laboratory that operates 364 days per year, a full-time collections manager, and over 250 volunteers who engage in science, collections, and outreach. The Department has close collaborations with local analytical laboratories and helps shepherd the museum's fleet of field vehicles and field equipment.

A PhD is required at the start of the position and postdoctoral experience is recommended. The starting date of the position is flexible.

Application Instructions: To apply, submit one single PDF file which contains all of the following on single-spaced, single-sided pages in 12-point or larger font: 1) a two page cover letter that outlines your present and anticipated scholarship and personal objectives; 2) a one or two page statement of outreach highlighting: (a) areas where you are currently most effective; (b) ways to leverage your skills within and beyond the DMNS to improve the public's understanding of science; and (c) innovative approaches for leveraging the DMNS platform to effectively engage the general public and catalyze the next generation of scientifically literate youth; 3) a one page statement of how you might (a) dovetail your scholarship with existing collections at the DMNS, and (b) build and steward a new major fossil collection at the DMNS; 4) a curriculum vitae which lists your in-press or published peer- reviewed publications, recent departmental seminars you have given and your post-graduate history of employment; and 5) a list of contact information for three professional references with whom you have collaborated in the past, and three references with whom you have not previously collaborated.

Submit your application online at www.dmns.org; no phone calls or printed application materials will be accepted. We will begin reviewing applications on February 15th and the application period will close March 1st.

The Denver Museum of Nature & Science is an equal opportunity employer. The Museum is dedicated to the goal of building a culturally diverse staff committed to serving the needs of all our visitors and we encourage applications from individuals of all backgrounds.

Ian Miller Curator of Paleobotany Chair, Department of Earth Sciences Director, Earth and Space Sciences

ian.miller@dmns.org

DukeU FieldTech PlantAdaptation

The Mitchell-Olds lab at Duke University seeks a highly motivated, detail-oriented assistant for field research in the northern Rocky Mountains, summer 2014. We are studying Boechera, a perennial herb that offers genetic tractability and ecological context. Current field experiments focus on questions related to local adaptation, plant defense against herbivory, and breeding systems.

Our research sites are located in east-central Idaho. Base camp is a set of trailers located near the beautiful town of Salmon. Amenities include heat, hot water, a landline, and wireless internet access. Travel distances between sites are long, which necessitates many hours in the car. Our team usually returns to the trailers to sleep but applicants should be familiar with (and enjoy!) camping for the times when this is not feasible. Weather conditions in the Rockies can be severe, and assistants should expect to work in snow and rain as well as 90 degree temperatures. Regular trips are made to Missoula, Montana for groceries and other supplies.

Successful applicants are expected to assist in data collection and data entry, plant care, transplanting, seed collection, and driving research vehicles. Applicants must be able to stoop/kneel for extended periods of time; hike up to 1 mile while carrying heavy loads; hike

up and down steep hills; and dig or dibble holes in hard ground. The work can be physically demanding and tiring, and the research team usually collects data 5-6 days per week. A good sense of humor and a positive attitude are necessities!

Qualifications: 1) some undergraduate education in biology, ecology, or related field, or equivalent experience; 2) experience camping and working outdoors and/or previous field research experience; 3) ability to perform repetitive tasks with a cheerful attitude and with attention to detail; 4) willingness to live and work in close proximity with other researchers in a trailer; 5) a current driver's license. Previous experience working with plants is preferable but not required. Transportation, room with internet access, and salary will be provided. Applicants must be available throughout the field season from approximately June 1st through mid-August, but exact start and end dates are flexible.

Interested applicants should submit: 1) a short cover letter describing their qualifications as well as future academic and professional goals; 2) a résumé outlining previous work experience, relevant courses (completed or in progress), extracurricular activities; and 3) contact information of two character references.

Email to:

Tom Mitchell-Olds, tmo1@duke.edu Department of Biology, Duke University

mrw28@duke.edu

Florida MNH MammalCurator

JOB OPENING: Collections Manager in Mammalogy

The Florida Museum of Natural History is a world-class natural history museum of over 40 million specimens and artifacts located on the University of Florida campus in Gainesville, Florida.

We are seeking a collection manager in the division of Mammalogy. Knowledge of the care and management of a natural history collection of mammals is expected, including permitting, cataloging and accessions specimens, processing loans, maintaining an electronic database, integrated pest management, and use of MS office. The FLMNH is a highly collaborative environment, so the ability to work well with others is critical for this position. As with all collection manager positions, attention to detail is of the utmost importance. Because the FLMNH is highly visible to the public, this position requires confidence in front of public, university, and scientific audiences including the media. Communication with the public, university, government, and scientific audiences is expected. Travel, including foreign travel is also expected of this position. FLMNH collection managers are encouraged to maintain their own independent research activity.

Minimum Qualifications: Bachelor's degree in (Biology, Zoology, or relevant field) with at least five years' experience in collection management. Job requires demonstrable proficiency with the taxonomy, nomenclature, identification, preparation, and preservation of mammal specimens, and their tissues and DNA.

Preferred Qualifications: Ph.D., experience in supervisory roles, mammal fieldwork, grant writing, and/or bioinformatics.

Duties include: Assists curator(s) in the management of zoological collections to ensure all care and maintenance procedures necessary for specimen conservation; loans; permitting; collection use for research, teaching, exhibits, and public programs; supervision of student assistants and volunteers; databasing, web access, and reporting; museum & local community service; help establish & nurture mutually beneficial relationships with individuals, schools, colleges, universities, and relevant organizations. The collection manager will work with Mammal Curator to develop policy and procedures; grow the collection; write grant proposals; participate in informal (or formal) teaching; aid in shared administrative duties, and develop and implement a long term collections strategy in reference to American Association of Museums accreditation requirements, standards, and best practices.

100% time (40 hrs/week). Salary commensurate with experience, plus benefits.

To Apply: Applicants must apply online and can view the complete job announcement at jobs.ufl.edu. Please reference job requisition number 0904817. Applicants will need to upload curriculum vitae, letter of interest, and arrange for three letters of reference to be sent directly to Mammalogy Curator, David L. Reed (dlreed@ufl.edu). Applications are due 2/14/14.

If an accommodation due to a disability is needed to apply for this position, please call (352) 392-2HRS or the Florida Relay System at (800) 955-8771 (TDD). The University of Florida is an Equal Opportunity Employer.

David L. Reed, Ph.D. Associate Curator of Mammals and Chair, Department of Natural History Florida Museum of Natural History 1659 Museum Road (Dickinson Hall) University of Florida Gainesville, FL 32611

(352) 273-1971 (voice) (352) 846-0287 (fax) e-mail: dlreed@ufl.edu http://www.flmnh.ufl.edu/mammals/ dreed@flmnh.ufl.edu

FrenchGuiana TreePopGenetics

Population genetics and genomics of wild tropical tree populations

A non-permanent position as Team leader in population genetics and genomics is open at INRA within the EcoFoG ("Ecology of Forests of the Guianas") Research Unit, based in Kourou, French Guiana.

The Research Unit (http://www.ecofog.gf/?lang=en) and the Ecological Genetics laboratory (http://-www.ecofog.gf/spip.php?rubrique91) in particular have a long-standing experience in the study of ecological and genetic processes involved in the establishment and maintenance of genetic, species and ecosystem diversity in tropical forest ecosystems. They are tightly connected with the international research community and make use of up-to-date experimental and analytical methods to tackle research questions such as unveiling the mechanisms underlying local adaptation and measuring the role of genomic processes in species radiation. The Ecological Genetics laboratory is currently leader / participant of several collaborative research programs revolving around the above topics. The team leader position is left vacant by the current Team leader's (I. Scotti) departure.

We are seeking a young and highly motivated scientist (ideally with a post-doc experience between three and six years) who is an expert in two or more of the following topics: population genetics, population genomics, quantitative genetics, modelling of population genetic processes, ecological genetics, speciation genomics, forest tree genetics. The scientist will have access to all data being gathered by research team; he/she will initially work on the genomics of local adaptation and speciation in a set of species and species complexes that have been the target of the lab's research during the past ten years. He/she will also initially work in tight collaboration with the former Team leader. While the hired Team leader will be in charge of all scientific aspects, the Ecological Genetics laboratory itself (including staff and facilities) will be supervised by the Team's permanent Research associate (Henri Caron). The candidate will preferentially have experience with non-model species that provide limited options for manipulative experimental approaches, and must have an inclination for field work, lab work, data analysis and the coordination of medium-sized research teams. Moreover, he or she must be willing to understand the inner working of, and to take care of, the administration of science and of collaborative research programs. Propensities for life in tropical conditions in a remote country, as well as a satisfactory level of spoken French, are mandatory.

Salary conditions correspond to those of an INRA CR2 scientist increased by 40% (approximate net salary: 2600 euro/month), plus the full benefits of the French welfare system. The position is offered for five years, divided into two grants of two and three years, starting 1st February 2014 at the earliest. The position will start with a three-month trial period.

The call for applications will be closed on January 31st, or earlier if a suitable candidate is found. If no suitable candidate is found by that date, the call will be reopened.

Please contact Ivan Scotti (ivan.scotti@ecofog.gf, http://www.ecofog.gf/spip.php?article58) for further information on the position and to submit your application. Applicants will submit a short introductory letter, a detailed CV, as well as two reference letters by current and former supervisors. The candidates with a suitable CV will be interviewed (expect a one-hour interview by videocall).

Ivan Scotti DR2 INRA - UMR 0745 ECOFOG "Ecologie des Forêts de Guyane" / "Ecology of Guiana Forests" Team Leader ≪ Population Ecology ≫ Campus agronomique, Avenue de France BP 709 - 97387 KOUROU Cedex FRANCE Phone +594 (0)59432-9274, -9285, -9278 Fax +594 (0)59432-4302 e-mail: ivan.scotti@ecofog.gf ivan.scotti@kourou.cirad.fr, i.scotti.inra.kourou@gmail.com

Personal webpage: http://www.ecofog.gf/-spip.php?article250 VISITORS TO FRENCH GUIANA MUST HOLD A VALID YELLOW FEVER VACCINE CERTIFICATE

Ivan Scotti <Ivan.Scotti@ecofog.gf>

Italy FieldAssist BeetleConservation

FIELD ASSISTANTS for monitoring saproxylic protected beetles in the LIFE-MIPP project. Website: http://www.lifemipp.eu . Location: University

of Rome “La Sapienza”, Department of Biology and Biotechnologies “C. Darwin”, Rome, Italy.

The field assistants will help in fieldwork for the monitoring of 5 species of saproxylic beetles (C.cerdo, R.alpina, M.funereus, O.eremita and L.cervus) in five protected areas in Italy (Abruzzo, Tuscany, Lombardy, Emilia-Romagna and Veneto).

The sampling seasons will be, depending on weather condition, approximately from May to July 2014.

The aim of the research is to develop generalized monitoring protocols for the saproxylic beetles included in the Habitats Directive, as required by the European Community. The field assistant will work with a large team consisting in master students, PhD, post-doc and researchers, expert in the techniques of trapping insects for monitoring. The work will consist in not-invasive methods as the simple count of animals in transect, Capture V Mark V Recapture, holes observation, collection of remains. Duties will include insects handling (marking, measuring), data entry and data management. The fieldwork will be not particularly demanding and will be organize in turns of maximum of 5 days continuously.

Qualifications/Experience

Candidates must have experience with fieldwork in general and interest in insect. Candidates should have a BSc in Biology or in Natural Science or a related field. Ideal candidates are highly motivated, well organized and able to work independently, while at the same time able to work in a group.

Applications

Review of the applications will begin Mid-February and continue until the positions are available. To apply, please send (1) a statement of relevant experience and motivation, (2) a very short resume or CV to

Dr. Gloria Antonini

gloria.antonini@uniroma1.it

Thank you.

Best regards,

Gloria

Emanuela Solano <emanuela.solano@uniroma1.it>

KunmingInstZool 3 Biodiversity

Three PRINCIPAL INVESTIGATOR POSITIONS (Ñ¾¿Ô±) in Ecology at the Kunming Institute of Zoology (KIZ), Kunming, China.

The KIZ invites applications for three full-time PI positions, two in molecular ecology and one in general ecology, with no taxonomic limitations, and with preference for research that has potential or current application to biodiversity conservation or environmental management. A PI position is equivalent to a western faculty position, and our search is open-rank.

This is a rolling job search that is part of a large expansion for the KIZ, so there is no official closing date.

For the molecular ecology positions, we are looking for individuals who use molecular data, broadly defined. For the general ecology position, all other methodologies are welcome, from modeling to GIS to experiment. The primary determinant is scientific excellence.

This is a superb opportunity to pursue an independent research program, backed by a large research team and ample funding. Considerable startup funding is available, at levels greater than or equal to those offered by European or US universities. Details of support and salary, plus further information, are posted at http://-english.kiz.cas.cn/CR/201309/t20130924_109888.html The KIZ is ranked as a first-class institution within the Chinese Academy of Sciences (CAS) system (particularly well known for research in genomics and phylogeography) and trains masters and doctoral students. There are no undergraduate teaching responsibilities. Facilities at the KIZ include the latest next-gen sequencers, a zoological museum with over 600,000 specimens, and access to CAS field stations, datasets, and facilities around the country. Our websites are www.kiz.cas.cn and english.kiz.cas.cn. Labs will be located at the new Southwest China Biodiversity Institute, which was built to promote close interaction within Yunnans broader ecology and environment community, including the Kunming Institute of Botany, the Xishuangbanna Tropical Botanical Garden, Yunnan Agricultural University, and Yunnan University.

The working languages at the KIZ are Chinese and English. All nationalities are welcome to apply, and most faculty have had international research experience. It is possible to conduct research outside China with grant monies from China. In addition to institutional support for Chinese national postgraduate students, the CAS has also recently made available very competitive CAS-TWAS Presidents Fellowships to support Ph.D. students from developing countries.

Candidates with a strong record of accomplishment should email a CV, a statement of research interests and

plans, and pdfs of three publications to the address below, with the Subject line "Ecology Job Search". Please include the names, addresses, and contact details of three individuals who can provide letters of recommendation. Informal enquiries can be made with Dr. Douglas Yu <dougwyu@gmail.com>.

Contact Information Liaison: Ms. BAI Yu Telephone: +86 871 65137268 Fax: +86 871 65199941 Email: baiyu@mail.kiz.ac.cn Mailing Address: Division of Human Resources Kunming Institute of Zoology, Chinese Academy of Sciences 32 Jiaochang Donglu, Kunming 650223, Yunnan, China

"Douglas W. Yu" <dougwyu@gmail.com>

MaxPlanck Germany AvianFieldTrainees

FIELD TRAINEES

needed in fulltime for monitoring and catching breeding passerines at the Max Planck Institute for Ornithology.

Website: http://www.orn.mpg.de/159079/-Research_Group_Dingemanse Location: Seewiesen, Bayern, Germany.

Job description:

The field Trainees will help collect breeding and behavioural data on Great Tits (Parus major) from approximately mid-March 2014 to the first half of August 2014. The research focuses primarily on identifying how natural and sexual selection act on animal personalities and behavioural plasticity. Trainees will work closely with a large, international team consisting of several post-docs, PhD and Master students, as well as other assistants. Field work is physically demanding, and involves walking over hilly terrain for long days outdoors in all weather conditions. The breeding season is intense and with typically only 1 day off per week. Duties include behavioural observations, nest monitoring, bird handling, data entry and data management.

Qualifications/Experience:

Candidates should study Biology or a related field. We are especially interested in candidates with experience in independent bird handling (preferably with small passerines), including ringing and measuring. Ideal candidates are highly motivated, well organized, while at the same time, able to function well in a big group. Applicants must have a valid drivers license and be experienced in operating vehicles with manual transmission.

Non-EU candidates are not eligible for this position. A small financial compensation and housing in shared accommodation will be provided. Accepted assistants should be vaccinated against Tick Borne Encephalitis (TBE or FSME) before arriving in Seewiesen. Applicants should also be aware that Lyme disease (carried by ticks) is prevalent in the area and should inform themselves about this disease beforehand.

In an effort to employ more people with disabilities, the Max-Planck-Society specifically encourages people with disabilities to apply for the position.

Applications: Review of the applications will begin immediately and continue until the positions are filled. To apply, please send (1) a statement of relevant experience, (2) a short resume or CV, and (3) contact information for two references to Alexia Mouchet (eMail: amouchet@orn.mpg.de).

Alexia MOUCHET Technical assistant

Max Planck Institute for Ornithology Evolutionary Ecology of Variation Eberhard-Gwinner-Stra©7/8 82319 Seewiesen GERMANY

Tel.: +49 (0) 8157 932 414 <tel:%2B49%20%280%29%208157%20932%20414> Email: amouchet@orn.mpg.de

"Mouchet, Alexia" <amouchet@orn.mpg.de>

MaxPlanck Germany FieldTrainees CricketBehaviour

*FIELD**TRAINEES*

needed in fulltime for Field Cricket Project at the *Max Planck Institute for** **Ornithology*.

Website:http://www.orn.mpg.de/159079/-Research_Group_Dingemanse Location: Munich (LMU) and Seewiesen, Bayern, Germany.

Job description:

The field trainees will help collect behavioural and life-history data on Field Crickets (Gryllus bimaculatus) and maintenance of the crickets frombeginning of April toAugust 1^st , 2014.The research focuses primarily on identifying how the social environment (ie. Other individuals) generate and maintain individual differences in behaviour and behavioural plasticity.Trainees will

work closely with an international team consisting of one post-doc, one PhD-student and various Master students. The research project is intense and will have typically only 1-2 days off per week. Duties include behavioural observations, cricket handling (marking, measuring), data entry and data management.

*_Qualifications_**_/Experience_**_:_*

Candidates shouldstudy Biology or a related field.Preferred candidates have experience with handling small insects and working as part of a research group. Ideal candidates are highly motivated, well organized and able to work independently, while at the same time able to function well in a big group.

Non-EU candidates are not eligible for this position. A small financial compensation and housing in shared accommodation will be provided.Acceptedtrainees should be vaccinated against Tick Borne Encephalitis (TBE or FSME) before arriving in Seewiesen. Applicants should also be aware that Lyme disease (carried by ticks)is prevalent in the area and should inform themselves about this disease beforehand.

In an effort to employ more people with disabilities, the Max-Planck-Society specifically encourages people with disabilities to apply for the position.

Applications: Review of the applications will begin February 15th and continue until the position is filled*.*To apply, please send (1) a statement of relevant experience, (2) a short resume or CV,and(3) contact information for two references to Alexia Mouchet (eMail:amouchet@orn.mpg.de).

–

Alexia MOUCHET

Max Planck Institute for Ornithology Evolutionary Ecology of Variation Eberhard-Gwinner-Straße 7/8 82319 Seewiesen GERMANY

Email:amouchet@orn.mpg.de

amouchet <amouchet@orn.mpg.de>

MaxPlanck Leipzig DataManagerAnalyst

Position available: Data manager and analyst for IUCN SSC A.P.E.S. database

The IUCN SSC A.P.E.S. database was founded in 2005 as a repository for great ape population data and the aim to inform great ape conservation strategies. Since its start a large number of field survey datasets have been compiled, processed and archived. It has been used to inform great ape conservation action plans and to conduct and publish scientific studies with a large number of data providing authors. These and other activities are dependent upon rigorous, expert management of the data.

We are seeking a highly-motivated person with a background in ecology, conservation or a related field and excellent quantitative skills to join our team as a data manager. The range of tasks covered by this position include the continuous identification and compilation of relevant datasets, their processing, archiving and analysis, handling of data requests, writing of reports on the status of ape populations and close collaboration with other members of the team. Furthermore, it will be important for the compilation of relevant datasets to travel to data owning institutions across the ape range, particularly as the database is being expanded to incorporate information on gibbon populations.

The successful candidate will therefore need excellent quantitative, organizational and communicative skills and to be fluent in English and French. We expect candidates to be able to efficiently process and standardize highly variable datasets, to extract summary statistics, to produce ape range and distribution layers, to estimate ape abundance from survey data and to be familiar with GIS techniques and software. The successful candidate will also need to communicate closely with Dr. Liz Williamson, coordinator of the Section on Greats Apes of the IUCN SSC Primate Specialist Group.

The position will be available for up to five years from January 2014. The annual salary will be up to 40,000 Euros depending on qualifications. The place of work will be at the German Centre for Integrative Biodiversity Research (iDiv) and the Max Planck Institute for Evolutionary Anthropology, both located in Leipzig, Germany.

Please send a Curriculum Vita, publication list, cover letter and the contact details of two referees to Dr. Hjalmar Kuehl (kuehl@eva.mpg.de). Please reference 'IUCN SSC A.P.E.S. data manager' in the subject line

arandjel@eva.mpg.de

Minnesota SummerFieldInternship PrairieEvolution

Summer field research internships

Are you interested in gaining field research experience and learning about the ecology and evolution of plants and plant-animal interactions in fragmented prairie? We are looking for 3-5 summer field researchers for an NSF-funded project on habitat fragmentation of the tallgrass prairie. We are investigating how small plant population size influences inbreeding, demography, pollination, and herbivory in the purple coneflower, Echinacea angustifolia. This is a great summer internship, REU, or co-op for those interested in field biology or conservation research.

No experience is necessary, but you must be enthusiastic and hard-working. You will survey natural plant populations, measure plant traits in experimental plots, hand-pollinate plants, observe & collect insects, and assist in all aspects of research. Housing is provided and there is a stipend. Undergraduate students have the opportunity to do an independent project as an REU participant.

If you want more information or wish to apply, please visit this website http://echinaceaProject.org/-opportunities/ or contact Stuart Wagenius. Applications will be reviewed starting 27 February 2014 for REU positions and 6 March for other positions.

Stuart Wagenius, Ph.D. Conservation Scientist Division of Plant Science and Conservation Chicago Botanic Garden 1000 Lake Cook Road Glencoe, IL 60022 phone: 847 835 6978 fax: 847 835 6975 email: echinaceaproject@gmail.com

echinaceaproject@gmail.com

MonashU DrosophilaEvolutionaryEcol

Research Assistant position available for project on Drosophila Evolutionary Ecology

Note: Applications close 19th January, 11:55pm Aus. Eastern Daylight Time

We are seeking a dedicated and ambitious Research Assistant to work on Drosophila evolutionary ecology.

As the successful applicant, you will work within the research program of Dr Magdalena Nystrand, who is an ARC research fellow in the lab of Dr Damian Dowling, at Monash University (Melbourne, Australia).

The project ties ecology to immunology (eco-immunology), and explores the effects of disease on insect life-history. The work involves animal husbandry, planning and implementation of experiments, and assistance of fellow laboratory members. All the work will be conducted on Drosophila, and involves work with inactivated bacteria and possibly also live bacterial pathogens.

While basic microbiological and immunological skills are desirable, they are not essential. The work is full-time and flexible, and will require occasional weekend work.

This role is a full-time position, and a 12 month contract; however, flexible working arrangements may be negotiated.

For position description and full information, see http://www.seek.com.au/job/25731997 For information on Dowling lab, visit http:/-/www.damiandowlinglab.com For information about Monash, http://www.monash.edu.au/ damian.dowling@monash.edu

NaturalHistoryMuseum ScienceDataArchitect

SCIENCE DATA ARCHITECT

THE NATURAL HISTORY MUSEUM, LONDON

The Natural History Museum is seeking an experienced data and information architect to take a leading role in its digital science mission: to collate and organise the data of one of the most important natural history collections in the world and make it openly accessible online. The post holder will design and implement digital data models, systems, practices and processes for the effective management of our scientific data within a world-leading institution with over 250 scientists and 80 million specimens.

The post holder will take a leading role in the develop-

ment of the data architecture supporting the Museum's mass digitisation programme and integration with museum systems.

We are seeking people with experience in:

1. Relational data modelling, covering conceptual, logical and physical data models, geospatial data, dimensional data models, data dictionary and metadata 2. Significant evidence of strategic, project and operational experience in the areas of Data Management, including team leadership within a complex and information rich environment 3. Data Science experience, developing and sustaining leading edge informatics and data science technologies 4. Understanding of automated data transfer mechanisms and data cleaning techniques 5. Experience leading long-term cultural changes in data management practice

Deadline: 30 Jan, 2014

For a full job description and to apply, please visit the NHM website: http://www.nhm.ac.uk/about-us/jobs-volunteering-internships/

PrincetonU QuantEvolGenetics 2

As a New Year's gift to all, I am reposting the Princeton job ad in Evolution, because this search is still ongoing. While we are authorized to search at the assistant professor level, I note that *in exceptional cases, more senior appointments may be considered.* Note that the text of some of the posted ads differ, but it is still the same formal requisition number at the jobs site indicated below, which could support more than one position.

Quantitative Evolutionary Genetics

Princeton University's Department of Ecology & Evolutionary Biology and the Lewis-Sigler Institute for Integrative Genomics seek to jointly hire a tenure-track Assistant Professor focusing on Evolutionary and Quantitative Biology. Sample areas might include, but are not limited to: molecular/genome evolution, population genomics, evolution of development, behavioral genetics, experimental evolution, microbial evolution of prokaryotes or eukaryotes, epigenetics, metagenomics, and/or quantitative genetics, using traditional and/or emerging model systems (though the specific model system is less important than the nature of the questions being addressed). We seek applicants who pursue research that aims for significant conceptual integration across traditional disciplinary boundaries. We likewise seek colleagues who will enthusiastically contribute to a climate that embraces both excellence and diversity, and who share our commitment to a mentoring process that advances EEB, LSI and the university, and that attracts and retains students of all ethnicities, nationalities, and genders.

Applicants should write a vision statement, no longer than 2 pages, that outlines one or more major unsolved problems in their field and how they plan to address them. In this respect, the vision statement should go beyond just a summary of the applicant's prior and current research. Applications, including a cover letter with links to three major publications or pre-prints, the vision statement, curriculum vitae, and contact information of three references for online reference request, must be submitted online via http://-/jobs.princeton.edu/applicants/Central?quickFind=-64204 or http://jobs.princeton.edu, to Req #1300612. Screening of applications is ongoing and will continue until the position is filled.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

Laura Landweber <lfl@princeton.edu>

Stuttgart Germany Biodiversity

The new Landscape Ecology group at the University of Hohenheim (Stuttgart, Germany) invites applications for

TWO SENIOR RESEARCH ASSOCIATES (EQUIVALENT TO ASSISTANT PROFESSORS)

Our group (led by Frank Schurr) studies biodiversity dynamics at different spatial and temporal scales as well as various hierarchical levels (genotypes, populations, species and communities). We aim to quantitatively understand how biodiversity dynamics arise from ecological and evolutionary processes. Much of our work is motivated by the need to quantify and forecast biodiversity responses to environmental change. To address our research objectives, we integrate empirical research, process-based modelling and advanced statistics (see also www.sites.google.com/site/frankschurr).

We are looking for highly motivated researchers who are keen to further develop their scientific profile, enjoy collaborating and have a strong publication record.

The successful candidates will have strong expertise in aspects of biodiversity science such as functional, community and population ecology, biogeography, conservation or evolutionary biology. They should have experience with experimental ecology, advanced statistics and/or process-based modelling. Expertise in plant identification is a bonus, whereas knowledge of German is not required.

The Landscape Ecology group comprises technical staff and is well equipped with lab, common garden, greenhouse, and computer facilities. Situated in the Southern German city of Stuttgart, the University of Hohenheim is located on a beautiful campus (one of the most species rich in Germany). It is well integrated into national and international research networks with a critical mass of researchers working on ecology, environmental science and evolutionary genetics. Stuttgart has a rich cultural life, attractive surroundings (Swabian Alp, Black Forest) and offers ample job opportunities for spouses.

The positions are initially for three years, with the possibility of extension for two to three years. The starting date is negotiable (April 2014 or later). The positions involve a moderate amount of teaching. Salaries follow the German civil service payscale TV-L E13. Candidates should hold a PhD and must be willing to supervise students and apply for external funding. Women and members of minority groups are particularly encouraged to apply.

If you are interested in these positions, please send your CV, publication list, contact details of at least two references and a short description of your research interests as a single PDF file to Frank Schurr, frank.schurr@univ-montp2.fr . The application deadline is 7 February 2014. For enquiries, please contact Frank Schurr under the above e-mail address.

Dr. Frank Schurr Institut des Sciences de l'Evolution UMR 5554 | CNRS Université Montpellier II

Place Eugene Bataillon | bat. 22 | CC065 34095 Montpellier | cedex 5 | France tel. +33 (0)4 67 14 36 93 | fax +33 (0)4 67 14 36 22

frank.schurr@univ-montp2.fr

UBonn Germany FloraEcologyEvolution

Senior Research Associate (UNIVERSITÄT BONN) Application are accepted until 31.01.2014

The Rheinische Friedrich-Wilhelms-Universität Bonn is looking for a Senior Research Associate (Akademischen Rat auf Zeit, m/w) at the Chair for Plant Biodiversity, Nees-Institut für Biodiversität der Pflanzen, starting 01. March 2014 (3 year position, may be extended to 6 years).

The applicant is supposed to work in current projects on floral ecology and the evolution of floral syndromes in a combination of field and greenhouse studies. Research will be undertaken in close collaboration with our South American partner institutions. Modern microscopy and (SEM, LM) facilities, pollinator-proof greenhouses, and experimental garden areas outdoors plus the collections of the Botanical Gardens are available for the research. 4 hours teaching in the BSc Biology, and the masters courses Plant Sciences and OEP Biology are obligatory. Additionally, a participation in certain administrative and organizational duties is expected, including the supervision of thesis work.

The candidate has: * PhD in Biology with a focus on ecology and/or systematics of flowering plants. * worked abroad, preferably in a Spanish-speaking country * teaching experience in undergraduate and graduate courses. * good to very good command of the English language and German language and at least a working knowledge of either Spanish or Portuguese (also in writing) * experience in the independent organization of collection and research trips * a research focus and publications in ecology, functional morphology and/or plant systematics * good knowledge of statistical methods

We offer: * Salary according to 13 BBesO * the possibility to obtain a VRS-Großkundenticket (public transport)

We are an equal opportunitites employer. Please send your application to Prof. Dr. Maximilian Weigend, Nees-Institut für Biodiversität der Pflanzen, Meckenheimer Allee 170, 53115 Bonn by 31.01.2014. Inquiries are directed to Prof. Dr. Maximilian Weigend (mweigend@uni- bonn.de)

Email-applications are sufficient for the pre-selection of candidates. If you are invited for an interview, you are expected to provide the usual application document (incl. authorized copies of diplomas). Application materials are only returned if accompanied by a envelope with corresponding the postage.

jens.mutke@uni-bonn.de

UFlorida DiseaseModeling

Assistant/Associate/Full Professor - Spatial and Mathematical Modeling/ Preeminence Hire

As part of the University of Florida Preeminence Initiative, the College of Liberal Arts & Sciences (CLAS) and the UF Emerging Pathogens Institute (EPI) invite applications for up to 4 full-time positions in spatial and/or mathematical modeling of infectious disease transmission. Positions will be 9-month tenured or tenure accruing at the level of Full, Associate, or Assistant Professor, starting August 16, 2014. The Departments of Geography, Mathematics, and Biology are prospective home departments, although other departmental affiliations in CLAS are possible. There is an expectation that the successful candidates will generate significant external funding, in association with EPI. Candidates should have expertise in mathematical models of spatial and temporal transmission processes to address questions in infectious diseases and/or public health. Specialties can include (but are not limited to): the transmission and persistence of human, animal, or zoonotic diseases; interactions between disease ecology, climate, and the built environment; relationships between socio-economics and disease risk; and health intervention strategies. We seek candidates with an excellent track record, including 1) existing grant funding and 2) publications in top journals. The successful candidates will be expected to engage deeply in the unique interdisciplinary research programs at EPI while maintaining good standing in teaching and service to their home Department and its mission. The successful candidates should possess a doctoral degree in Geography, Mathematics, Biostatistics, Epidemiology, Public Health, Biology, or other relevant disciplines. Interested candidates are invited to submit a curriculum vita and letter of application describing skills to Dr. Jane Southworth, Search Committee Chair, Department of Geography, University of Florida, PO Box 117315, Gainesville, FL, 32611. Applications, including a cover letter, current vita, one-page research-and-teaching statement, and the names of three references should be submitted online at http://jobs.ufl.edu/-postings/47749. We prefer that application materials also be sent electronically to jsouthwo@ufl.edu. Review of applications will begin immediately and will continue until the positions are filled. The University of Florida is an Equal Opportunity Institution.

Marta L. Wayne, Ph. D. P.O. Box 118525 Department of Biology University of Florida Gainesville, FL 32611-8525 (courier: B30 Bartram Hall) vox: 352-392-9925 fax: 352-392-3704 http://www.biology.ufl.edu/-People/faculty/mlwayne.aspx mlwayne@ufl.edu

UKonstanz 2 MolecularEvolution

At the Department of Biology at the University of Konstanz in Germany we have two openings as

Assistant Professor/Group leader

The persons we are looking for should work ideally in the fields of either molecular evolution, comparative genomics, and / or the evolution of developmental mechanisms. The positions are for Ph.D. biologists, ideally with prior postdoc experience and a publication record in bioinformatics, molecular evolution or evolutionary developmental biology. A total of three research groups, two of which are headed by Junior Group Leaders make up the evolutionary biology group in the Department of Biology at the University of Konstanz in Germany:http://www.evolutionsbiologie.uni-konstanz.de/index.php?section=172 Our taxonomic emphasis is on fish, particularly on the cichlids, zebrafish and medaka model systems. We are interested in the origin of adaptations and speciation in cichlid fish of the adaptive radiations from Nicaragua and Africa. For publications of the lab see: http://www.evolutionsbiologie.uni-konstanz.de/-index.php?section=92. We are currently supported by an ERC advanced grant for genomic, population genomic, and ecological work on the repeated adaptive radiations of cichlid fish from crater lakes in Nicaragua.

Space in a modern fish facility is available and the exclusive support of a 50% part-time technician will be provided to each of these two new groups. Wet lab space, equipment, departmental facilities and annual financial support for research expenses are provided by the university. The lab has state-of-the-art facilities for molecular and developmental biology, including Illumina and Roche FLX next-generation sequencers at the Genomics Center Konstanz: http://-cms.uni-konstanz.de/en/genomics-center/ . The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern German

border to Switzerland.

Appointments are initially for two to three years and are renewable for several years after that. Habilitation is possible, and a modest amount of teaching (English or German at the BSc and MSc level) is required and the supervision of undergraduate and graduate students is expected.

The University of Konstanz is an equal opportunity employer and tries to increase the number of women in research and teaching. The University of Konstanz is committed to further the compatibility of work and family life.

Additional information can be obtained from: axel.meyer@uni- konstanz.de , phone: +49 (0) 7531 / 88 - 4163, fax + 49 (0) 7531 / 88 - 3018 or from our website: http://www.evolutionsbiologie.uni-konstanz.de . Applications - including a (1) statement of research interests and a research plan, (2) a full CV and (3) names and email addresses of 3 referees - should be emailed to as one pdf to: a.meyer@uni-konstanz.de.

Applications should be received before January 31st, 2014.

Axel Meyer <axel.meyer@uni-konstanz.de>

UNAM Mexico SystematicBotany

Position opening - Instituto de Biología, Universidad Nacional Autónoma de México Systematic Botanist or Mycologist

The Instituto de Biología, Universidad Nacional Autónoma de México (IB-UNAM), whose principal mission is the study of the biodiversity of Mexico, and houses the national biological collections, invites applications for a tenure-track, full time position of Associate Researcher level "C", in systematic botany or systematic mycology at the main University campus, Mexico City.

Requirements for candidates: 1. A Ph.D. degree or equivalent, preferably in botany, mycology, systematics, evolutionary biology, or a related discipline. 2. Experience in systematic research of vascular plants or fungi, demonstrated by original, high quality publications, commensurate to age and academic trajectory. 3. Knowledge of the vascular flora or mycota of Mexico and/or the Neotropics, particularly in one or more groups whose diversity is exceptional in Mexico, as well as experience in the curation of scientific collections, techniques of field collecting, morphology, molecular systematics, or genetics. 4. A commitment to participate in activities complementary to investigation, such as teaching in educational programs at UNAM, direction of theses at the undergraduate and graduate level, activities of science outreach, and institutional participation. 5. Willingness to participate immediately in the academic activities of the IB-UNAM, practice leadership in his or her area of research, and demonstrate capacity to become part of a research group. 6. Demonstrable proficiency in Spanish.

Applicants should submit a letter of intent directed to the Academic Secretary of the IB-UNAM with a detailed statement of purpose; a full curriculum vitae with contact information (supporting documentation is not necessary at this stage); PDF reprints of publications that the applicant considers the most important of their professional trajectory (maximum of five); a synthetic outline of research goals for the first year (5 pages maximum); and a letter of recommendation. The required documentation must be received by May 30, 2014. Shortlisted candidates will be contacted for a personal interview.

Inquiries regarding this announcement should be addressed to Dr. Atilano Contreras-Ramos, Academic Secretary of IB-UNAM, e-mail: acontreras@ib.unam.mx. Applications will be received at the email address sacademica@ib.unam.mx.

s.magallon@ib.unam.mx

UNevada Reno GenomicsBioinformatics

Department of Biology Functional Genomics and Bioinformatics Faculty Positions

The Department of Biology seeks two faculty positions, one in FUNCTIONAL GENOMICS and one in BIOINFORMATICS, at the assistant professor level, tenure-track. For the functional genomic position, we are seeking candidates using functional genomic and bioinformatic approaches to investigate cellular and neural functions, but any other areas of focus will be considered. Of particular interest are candidates who integrate innovative high-throughput sequencing and bioinformatics-based experimental approaches to examine neural functions through detailed analysis of the genome and/or transcriptome. For the bioinformatics

position, we are interested in candidates whose research seeks to develop and apply computational and quantitative methods to interrogate large data sets in the study of biology. Possible areas include, but are not limited to, genomic and transcriptomic data analysis, regulatory networks, biological systems, and should address fundamental questions in biology, including biomedical, evolutionary and ecological fields. The successful candidates will be expected to develop an innovative, extramurally-funded, research program, and teach at the undergraduate and graduate levels. The Department recently hired a genome biologist and is currently recruiting two Neurobiologists, who together with the new faculty hires in functional genomics and bioinformatics would generate synergistic interactions with the diverse faculty in the Biology Department including faculty supported by a Neuroscience and Cell Signaling COBRE.

The University of Nevada, Reno, offers competitive start-up support, in addition to an interactive research environment, including outstanding core facilities in proteomics, genomics, microscopy, bioinformatics and flow cytometry. The Biology Department is home to 26 faculty members that maintain nationally recognized, extramurally funded research programs, mentor 50 graduate students, and participate in undergraduate teaching. The Department has a growing neuroscience, developmental biology and evolutionary genomics research clusters, focusing on neural development, behavioral genetics, speciation and adaptation. Faculty members in the Department of Biology have close ties to the University of Nevada School of Medicine and over $60 million of NIH funds have recently been targeted for biomedical research development on campus. Reno is located in the Sierra Nevada mountains near Lake Tahoe, and was recently rated one of the best small cities in the US for outdoor recreation and overall quality of life.

Go to http://jobs.unr.edu to submit application materials, including an application letter, CV, research plans, teaching interests, and contact information for three references. Applications received by January 10, 2014 will receive full consideration.

Thomas L. Parchman Assistant Professor Department of Biology, MS 314 University of Nevada, Reno Max Fleishman Agriculture Building 1664 N. Virginia Street Reno, NV 89557-0314 tparchman@unr.edu

Thomas L Parchman <tparchman@unr.edu>

UOldenburg 3 PlantEvol Genomics

The Institute of Biology and Environmental Sciences belonging to the Faculty of Mathematics and Natural Sciences at the University of Oldenburg aims to strengthen its profile in the fields of biodiversity, evolutionary biology and ecology by soliciting applications for a new full professorship

(W 3): Plant Evolutionary Genetics The successful candidate should use modern methods to identify and study the expression of genes involved in functional adaptations to abiotic factors. Desirable methodological skills include gene silencing, RNAi, single gene expression analysis and/or in situ hybridization. To facilitate collaboration with existing groups at the Institute of Biology and Environmental Sciences, the ability to work with non-model organisms is essential.

All applicants should express a strong commitment to high standards in teaching undergraduate and graduate courses. A documented strong record of securing extramural funding is expected. All applicants should complement the existing research strongholds in biodiversity and evolution. Active involvement in future collaborative research efforts within the Faculty is expected. Qualifications are specified in §25 NHG. The University is an equal opportunity/affirmative action employer. In order to increase the percentage of female faculty members, female candidates with equal qualification will be given preference. Applicants with disabilities will be preferentially considered in case of equal qualification. Please submit applications as a single PDF file to Carl von Ossietzky Universität Oldenburg, Fakultät V, z.H. des Direktors des Instituts für Biologie und Umweltwissenschaften, 26111 Oldenburg (ibu@uni-oldenburg.de). This file should include a CV, a publication list, details on teaching experience, copies of relevant certificates, and statements of research and teaching interests. Applications should be submitted by February 21, 2014

The Institute of Biology and Environmental Sciences belonging to the Faculty of Mathematics and Natural Sciences at the University of Oldenburg aims to strengthen its profile in the fields of biodiversity, evolutionary biology, ecology and neurosensory sciences by soliciting applications for a new full professorship (W 3):

Ecological Genomics Expected research areas involve transcriptomics to study the evolution of life history traits in non-model organisms (higher plants or animals). Focal areas should be the functional expression, characterization, and annotation of genes and their products (gene to function). Preferred topics include the genetic basis of organismic adaptability, for instance to abiotic stress or the genetic basis of sensing.

All applicants should express a strong commitment to high standards in teaching undergraduate and graduate courses. A documented strong record of securing extramural funding is expected. All applicants should complement the existing research strongholds in biodiversity and evolution. Active involvement in future collaborative research efforts within the Faculty is expected. Qualifications are specified in §25 NHG. The University is an equal opportunity/affirmative action employer. In order to increase the percentage of female faculty members, female candidates with equal qualification will be given preference. Applicants with disabilities will be preferentially considered in case of equal qualification. Please submit applications as a single PDF file to Carl von Ossietzky Universität Oldenburg, Fakultät V, z.H. des Direktors des Instituts für Biologie und Umweltwissenschaften, 26111 Oldenburg (ibu@uni-oldenburg.de). This file should include a CV, a publication list, details on teaching experience, copies of relevant certificates, and statements of research and teaching interests. Applications should be submitted by February 21, 2014

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The Institute of Biology and Environmental Sciences belonging to the Faculty of Mathematics and Natural Sciences at the University of Oldenburg aims to strengthen its profile in the fields of biodiversity, evolutionary biology, ecology and neurosensory sciences by soliciting applications for a new full professorship (W 3): Sensory Biology of Animals The research should focus on the sensory mechanisms enabling animals (for instance birds, fish, insects) to perform long-distance navigation. The chosen candidate should contribute to the design and establishment of a new research stronghold in animal navigation/neurosensory sciences, which should incorporate existing strengths of research groups from biology, physics, and medicine at the University of Oldenburg and/or the Institute for Avian Research in Wilhelmshaven. Research themes which would fit into this future concept include: magnetic sensing, olfaction and its use in navigation, celestial orientation mechanisms. A molecular, biophysical, neurobiological and/or physiological focus will be preferred over a purely behavioral approach.

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

WinthropU SouthCarolina EvolutionaryGenetics

The Biology Department at Winthrop University in Rock Hill, South Carolina (~20 minutes south of Charlotte, North Carolina) is looking to hire an Assistant Professor of Biology with expertise in Genetics/Molecular Biology. Winthrop University is a public, comprehensive university, that has been recognized as one of the best Southeastern colleges by Princeton Review and a Top-10 Regional Public University by US News & World Report. The student body is 40% minority and includes a number of first generation college students so it is a fantastic place to make a difference.

The Biology department has a history of strong research (faculty members have received grants from many places - NIH, USDA, etc.). There is also a master's program in addition to the undergraduate major. The department has 16 full time faculty members currently (along with a number of adjunct professors). Each faculty member has their own research lab in addition to shared equipment spaces. The department also has a nice mix of junior, mid-career, and senior professors.

It's honestly a great place to work and is a bit of a hidden gem despite the fact that it's 20 minutes from one of the fastest growing cities in the US.

Deadline for the Application is January 31st, 2014. For more information see below.

Title: Assistant Professor of Biology Major Responsibilities: 1. Teach courses in genetics and molecular genetics 2. Teach additional courses that could include introductory biology, a research methods course, a senior capstone course or other courses to give a total of 12 credit hours each semester 3. Develop additional undergraduate and graduate courses in area of specialization 4. Appropriate scholarly involvement in field of specialization 5. Effective advising of both undergraduate and graduate students 6. Appropriate engagement in service to the department, college, and university 7. Other duties as assigned by the department chair

Qualifications: 1. PhD in a Biological Science with strong background in genetics. ABDs will be considered for appointment in a non-tenure track position at the rank of instructor if all degree requirements are not completed by the expected start date of August 18, 2014 2. Evidence of excellence in teaching and a strong commitment to student learning and development 3. Evidence of an ability to establish an independent research program that will include both graduate and undergraduate students 4. Evidence of excellent interpersonal skills and strong personal ethics for mentorship of student research projects

Employment Conditions: 1. A nine-month, full-time, tenure track appointment with the option of summer employment if funds are available. Salary dependent upon qualifications.

Position Availability: August 18, 2014 Application Deadline: January 31, 2014 Application Procedures: 1. Application deadline is January 31, 2014. Application materials received after the deadline may be considered if an acceptable candidate has not been found. 2. Individuals wishing to apply for this position should immediately make their interest known to:

Dr. Kristi Westover Chair of the Search Committee Department of Biology Winthrop University Rock Hill, SC 29733 Phone: 803-323-2111, ext. 6180 Fax: 803-323-3448; email westoverk@winthrop.edu 3. The following materials should be submitted: a. Letter of application b. Current curriculum vitae that includes names, addresses, e-mail addresses, and phone numbers of at least three professional references c. Three letters of recommendation d. All graduate degree transcripts (copies are acceptable for application but official transcripts will be required for an offer of employment) e. Detailed statements of teaching philosophy and future research plans f. Evidence of effective teaching (such as student evaluations)

Winthrop University is an Equal Opportunity Employer

Matthew J. Heard, Ph.D. Assistant Professor of Biology Winthrop University Biology Department 220 Dalton Hall Rock Hill, SC 29733 803-323-2111 ext. 6443 www.mattheard.com Matthew Heard <heard.m@gmail.com>

iPlantCollaborative UArizona 2 ScientificAnalysts

THE IPLANT COLLABORATIVE, BIO5 INSTITUTE, UNIVERSITY OF ARIZONA, TUCSON, AZ

seeks

2 SCIENTIFIC ANALYSTS

POSITION The iPlant Collaborative (http://-www.iplantcollaborative.org) is seeking two (2) Scientific Analysts for its main site at the University of Arizona to serve as liaisons between the scientific community, the iPlant software development team, and the iPlant leadership. The successful candidates will be part of an interdisciplinary team responsible for the implementation of iPlant's Scientific Enablement Plan and the support of multiple collaborative projects. This involves active discussion with the scientists, research into appropriate supporting technologies, and the judicious application of technical judgment to convert community needs into practical design requirements as well as coordination across projects and sites. The iPlant Collaborative is a multi-site, NSF-funded National Center working to develop a comprehensive national research and education cyberinfrastructure for the life sciences and agriculture. It directly collaborates with researchers and educators at most leading research universities and higher education institutions across the United States and interacts with similar international and transnational efforts.

DUTIES AND RESPONSIBILITIES: * Scientifically interact with biologists, bioinformaticians and other members of the iPlant team; coordinate development across projects, facilitating integration and cross-communication. * Translate community input into formal software requirements and participate in the design and implementation of next generation systems for organizing, analyzing, visualizing and integrating large-scale data sets in collaboration with domain scientists and programmers. * Engage and interact with external scientific collaborators; represent iPlant at workshops and scientific conferences. * Research, identify and test scientific applications; develop prototype software that extends and integrates with the existing cyberinfrastructure. * Provide advice and make decisions on the biological correctness and relevance of data representations. * Support and participate in Education, Outreach, and Training initiatives. * Manage and report on project requirements, progress, and deliverables.

MINIMUM QUALIFICATIONS: * Advanced degree (MS or Ph.D) in a life science discipline (biology, genetics, biochemistry, etc.). Candidates with a degree in another natural science, computer science, information technology or a related discipline and a demonstrated track record of research experience in the life

sciences will also be considered. * Significant expertise in one or more of the following areas: Association studies involving environmental factors, Genome assembly and variant detection, Crop modeling, High-throughput morphological, anatomical, molecular or physiological phenotyping, Network and pathway analysis. * Two to three (2-3) years of work experience conducting computational biology research and/or collaborative scientific software development (academic, government, or industry). * Competence in at least two of the following: Perl, Python, C, C++, R, Linux shell, Java or DBMS. * Demonstrable oral presentation and communication skills. * Excellent interpersonal skills and ability to build consensus. * Very strong organizational skills. * Advanced ability to work independently under established deadlines and as part of a team. * Ability to travel as required to partner/collaborator institutions, relevant conferences, etc.

APPLICATION For all details and to apply, please visit the University of Arizona on-line application page at http://www.uacareertrack.com/- and search for job number 54163 or go directly to http://www.uacareertrack.com/applicants/-Central?quickFind=210447 .Review is ongoing and the position is open until filled.

For inquiries about the position, please contact Naim Matasci (nmatasci@iplantcollaborative.org).

For administrative inquiries and inquiries about the application process, please contact Kathleen Riley (ksriley@bio5.org).

– Naim Matasci, PhD Scientific Lead, iPToL Engagement Team BIO5 Institute, The iPlant Collaborative

Adjunct Assistant Professor Ecology and Evolutionary Biology

University of Arizona, Tucson Email: nmatasci@iplantcollaborative.org Tel: +1 (520) 626-3756 http://www.matasci.info Cal: http://-goo.gl/wTxaK naim.matasci@gmail.com

Other

AMNH NewYork UndergradResearch

Do you know an exceptional undergraduate student who would like to spend a fun and engaging summer in the heart of New York City working at the American Museum of Natural History?

The Research Experiences for Undergraduates (REU) program, funded by the U.S. National Science Foundation, offers paid summer internships for qualified undergraduate students to conduct research projects with AMNH scientists in evolutionary biology and systematics, linked to specific individual research projects. Included in the program are a general orientation to the Museum and a series of weekly meetings at which students discuss their research, present informal progress reports, and participate in discussions and seminars as well as graduate and research career opportunities. At the conclusion of the internships, students deliver oral presentations of their work and prepare publication quality research papers.

Pending the approval of federal funding, successful applicants will receive a stipend and dormitory housing on a nearby university campus, or an equivalent housing stipend, will be provided together with a subsistence allowance. Based on need, travel costs to and from New York City are also covered.

The program is open to all students who are U. S. citizens or permanent residents who will be returning to a degree-granting undergraduate program. Students from community colleges and primarily undergraduate institutions are especially encouraged to apply.

A description of the potential projects and more information may be found here: http://www.amnh.org/our-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/-undergraduate-fellowships Susan Perkins, Ph.D. Associate Curator & Professor Sackler Institute for Comparative Genomics and Division of Invertebrate Zoology American Museum of Natural History Central Park West at 79th Street New York, New York 10024

p: 212-313-7646 f: 212-313-7819 http://-malaria.amnh.org http://genomics.amnh.org Twitter: @NYCuratrix Blog: Parasite of the Day - http://dailyparasite.blogspot.com Susan Perkins <perkins@amnh.org>

Ageing database

Dear Colleagues,

I thought you may be interested in our AnAge database of ageing and longevity in animals. We have recently released build 13 with over 4,200 species and over 3,500 longevity records.

In addition to longevity records, which continue to be our main focus and we make a great effort to verify their authenticity, AnAge features one of the most comprehensive collections of quantitative life history data (age at sexual maturity, litter (or clutch) size, adult body weight, etc.) in vertebrates. Metabolism data is also available for hundreds of species of birds and mammals.

AnAge is freely available online at: http://-genomics.senescence.info/species/ We hope you will continue to find this resource useful for your research. Comments, suggestions and contributions are always appreciated.

With the very best wishes, Joao Pedro

Joao Pedro de Magalhaes, PhD

Institute of Integrative Biology Biosciences Building, Room 245 University of Liverpool Crown Street, Liverpool L69 7ZB United Kingdom

Phone: +44 151 7954517; Fax: +44 151 7954408 Integrative Genomics of Ageing Group: http://-pcwww.liv.ac.uk/~aging/

J Pedro Magalhaes <aging@liverpool.ac.uk>

ChicagoBotanicGarden REUInternship

FOR UNDERGRADUATES V NSF Research Experiences for Undergraduates Internship

This summer, gain lab and field experience working with scientists from the Chicago Botanic Garden conducting research on plant biology and conservation, from genes to ecosystems. Application deadline: January 31, 2014. To apply online, please visit http://-www.cbgreu.org info@cbgreu.org

ChicagoBotanicGarden SummerREU PlantConservation

This summer, the Chicago Botanic Garden and partner institutions will host 10 NSF-REU interns (Research Experiences for Undergraduates) conducting research under the broad theme of PLANT BIOLOGY AND CONSERVATION, from genetic to ecosystem levels of inquiry. Potential projects include work in systematics, conservation biology, restoration ecology, biogeochemistry, and related fields. Students will gain laboratory and field experience, participate in professional development activities, help mentor high-school student researchers, and enjoy a fun social environment.

Participants should be U.S. citizens or permanent residents who will be enrolled as undergraduates after summer 2014. They will receive a stipend of $4,750 and room and board in downtown Chicago. Costs of travel to and from Chicago will be covered. We encourage applications from students who are members of groups underrepresented in the sciences and students who have limited research opportunities at their home institutions. The application deadline is January 31, 2014, and the 10-week program will run from June 9-August 15, 2014.

We invite interested undergraduates to find more information and apply at http://www.cbgreu.org. Questions should be directed to info@cbgreu.org.

We also ask faculty, postdocs, graduate students, and other undergraduate mentors to please help us spread the word about this exciting opportunity to exceptional undergraduates.

Thank you,

Dan Larkin Chicago Botanic Garden http://-www.cbgreu.org/ info@cbgreu.org

Jeremie Fant <jfant@chicagobotanic.org>

ESEB CallApplicationsTravelStipends

ESEB TRAVEL STIPENDS 2014

The European Society of Evolutionary Biology (ESEB) is pleased to announce the call for applications for travel stipends 2014. These stipends are for students and young scientists to attend the Evolution 2014 congress of the SSE in North Carolina in June 2014 (http://-evolution2014.org). The stipend will contribute to covering travel, living expenses and congress registration fees. The stipend will be paid out as a reimbursement after the congress, based on specification of the expenses.

Eligibility: - Applicants must be ESEB members (for becoming a member of ESEB, see http://-www.eseb.org/). - Applications can be submitted by scientists at various stages of their professional career (e.g., Masters and PhD students, postdocs, and lecturers). - Scientists working in a country with high GDP are not eligible (for the list of excluded countries see below). - People who received an ESEB travel stipend in the last five years are not eligible. - Applicants must submit to present either an oral communication or a poster to be eligible for the stipend. This will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application stage.

PLEASE NOTE THAT THESE STIPENDS ARE GIVEN IN CONJUNCTION WITH ANALOGOUS STIPENDS OFFERED BY THE SSE (separate call), SO THERE IS NO NEED TO APPLY TO BOTH

How to apply: send your application by email to the ESEB Travel Bursary Committee, c/o Dr. Martijn Egas <egas@uva.nl>. The application should be no more than 2 pages long and include:

- Name of the applicant; - Budget, including sources of additional support; - An explanation of how attendance to the meeting will further the attendant's professional goals; - and a CV

Please submit the application as a single PDF-file. A support letter from the applicant advisor/mentor/senior colleague is also required. Support letters should be sent to the same email address (egas@uva.nl) by the applicant's mentor.

Deadline: 14 February 2014 24:00 GMT.

Members professionally based in the following countries are not eligible for the travel stipend: Australia, Austria, Belgium, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Luxembourg, Malta, Netherlands, New Zealand, Norway, Poland, Portugal, Singapore, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland , United Kingdom, United States of America.

Ute Friedrich ESEB office Manager Email:office@eseb.org

European Society for Evolutionary Biology www.eseb.org office@eseb.org

ESEB OutreachFund DeadlineMar15

ESEB Outreach Fund

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Fund for projects that promote evolution-related activities. With a total annual budget of 15000 Euro, the goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, websites) intended for a general audience, public outreach seminars, public exhibitions, etc. While most projects will be financed for a sum between 1000-1500 Euro, exceptions can be made if a strong argument is provided for additional funds.

The application form can be found on www.eseb.org (click on the "Outreach Fund" link). Applications will be accepted twice yearly (deadlines March 15, September 15) and should be submitted by email to Ute Friedrich (office@eseb.org; Subject: Outreach).

– Ute Friedrich ESEB Office Manager Email:office@eseb.org

European Society for Evolutionary Biology www.eseb.org office@eseb.org

FSBI on twitter

Hi all,

This is slightly off topic for the list, so apologies if it falls outside your interests.

The aquatic or fish biologists amongst you might be interested to hear that the Fisheries Society of the British Isles (FSBI) have recently launched a Twitter account. We will be posting information about fish research, grants, awards, conferences and publications along with other news. You can follow us at @TheFSBI.

If you have anything suitable which you would like us to highlight, please drop me a line.

Best wishes,

Brian

–

Dr. Brian Hayden

Post-Doctoral Researcher Department of Environmental Sciences University of Helsinki PO Box 65 Viikinaari 1 00014

Web: www.brianhayden.org Twitter: @DrHaydo Skype: Brian.Hayden.Work

Social Media Editor for the Fisheries Society of the British Isles (@TheFSBI)

FieldMuseum Chicago REU undergrad internships

The Field Museum of Natural History (Chicago) invites applications to its 2014 Research Experience for Undergraduate (REU) program in evolutionary biology and biodiversity research. The NSF-funded REU program is a 10-week summer internship at the museum and will begin June 9th. Eight projects, each mentored by Field Museum's faculty are offered.

The application deadline is February 10, 2014.

All applications are received online only. Please consult the Field Museum web site for details:

http://fieldmuseum.org/about/research-experiences-undergraduates-reu All questions about the program should be directed through the website:

http://fieldmuseum.org/about/research-experiences-undergraduates-reu Corrie Saux Moreau, Ph.D. Assistant Curator - Insects Integrative Research Center Department of Science and Education Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605 USA Office: (312) 665-7743 Fax: (312) 665-7754 Email: cmoreau@fieldmuseum.org Moreau Lab website: www.moreaulab.org FMNH website: http://fieldmuseum.org/users/corrie-moreau Field Museum Women in Science (FMWIS) website: http://fieldmuseum.org/explore/field-museum-women-

science cmoreau@fieldmuseum.org

GWAS datasets

Dear Brian and Evoldir Users,

We are working on developing generic pipelines and new algorithms for the analysis of GWAS with an emphasis on multiple-SNP signatures. Even though there is a wealth of studies on GWAS it seems that it's impossible to find available full genome datasets. Is it because of privacy issues? or what? Are you aware of such (freely available) datasets or even better are you willing to share such datasets. No need to be human, other organisms are also OK.

kind regards, pavlos

–

Pavlos Pavlidis, PhD email: pavlidisp@gmail.com Foundation for Research and Technology - Hellas Institute of Molecular Biology and Biotechnology Íikolaou Plastira 100, Vassilika Vouton GR - 711 10, Heraklion, Crete, Greece

Pavlos Pavlidis <pavlidisp@gmail.com>

IAS Berlin VisitingFellowships

The College for Life Sciences at the Wissenschaftskolleg zu Berlin (Institute for Advanced Study, Berlin) has an open competition for several visiting fellowships for the academic year 2014-15. The fellowship is for a minimum of three months and a maximum of ten months.

The fellowships are for post-doctoral fellows, junior lecturers/assistant professors or early-career principal investigators from all fields in the life sciences.

Full details are at:

http://www.wiko-berlin.de/fellows/-schwerpunktgruppen/college-for-life-sciences/ The Institute for Advanced Study Berlin also invites approximately 40 senior visiting fellows across all academic disciplines. The Institute has a long-term commitment to biology, particularly aspects of ecology, evolution, and theoretical biology. In 2014-15, there will be several senior biologists in residence, including a group in evolutionary biology including Steven Frank, Neil Shubin, Orkun Soyer, Yogi Jaeger, and Thomas Pfeiffer. Other senior fellows work in biochemistry, human physiology and evolution, and primatology.

Steve Frank <safrank@uci.edu>

IIASA Austria SummerFellowships

Summer Fellowships for Young Scientists at the International Institute for Applied Systems Analysis, Austria

Funding is available for PhD students interested in three months of collaborative research during June-August 2014 on

Evolutionary and Ecological Modeling

at the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria.

Young scientists from all countries are eligible for stipends provided by IIASA's Evolution and Ecology Program (EEP) that contribute to travel and accommodation costs. Students from Australia, Austria, Brazil, China, Egypt, Finland, Germany, India, Indonesia, Japan, Korea, Malaysia, the Netherlands, Norway, Pakistan, Russia, South Africa, Sweden, and the USA are furthermore eligible for fellowships that provide full coverage of travel, accommodation, and living expenses.

Model-based summer research projects are invited in the following indicative areas:

Evolution of cooperation Governance of common goods Systemic risks and network dynamics Eco-evolutionary dynamics Evolutionary community ecology Food-web evolution Vegetation dynamics Adaptive speciation Disease ecology and evolution Evolutionary conservation biology Fisheries management Fisheries-induced evolution Adaptive dynamics theory and models Spatial models in ecology and evolution

Applicants are encouraged to prepare a research proposal that corresponds to their scientific interests and to the research agenda of their hosting IIASA Program. Accepted applicants will begin work before the summer, by planning their research in collaboration with their IIASA supervisors. Previous experiences with implementing and studying evolutionary or ecological models are important assets for working in EEP. To improve chances of being selected, potential applicants are wel-

come to send informal inquiries regarding their specific research interests and plans to EEP's program director Ulf Dieckmann (dieckmann@iiasa.ac.at).

Online applications will be accepted until Monday, January 13, 2014 (24:00 CET).

Since 1977, IIASA's annual Young Scientists Summer Program (YSSP), has attracted 1700+ students from 80+ countries. The YSSP 2014 will take place from June 1 to August 31. IIASA is located in the former summer palace of Austria's royal family, ca. 15 km south of Vienna. IIASA's summer program offers exceptional opportunities for acquiring experience in an international and interdisciplinary research environment. Research training is based on regular personal interaction with advising scientists, and typically leads to a publication in an international journal, as well as to a chapter in a candidate's PhD thesis.

Some useful links:

+ Details about the summer program, and online application http://www.iiasa.ac.at/web/home/-education/yssp/Apply/ConditionsEligibility/-Conditions-and-Eligibility.en.html + Information about IIASA's Evolution and Ecology Program http://www.iiasa.ac.at/web/home/research/-researchPrograms/EvolutionandEcology/New-page.en.html + Examples of successful YSSP projects http://www.iiasa.ac.at/web/home/-research/researchPrograms/EvolutionandEcology/-AbouttheProgram/Student-Participation-in-EEP.en.html + General information about IIASA http://www.iiasa.ac.at/web/home/about/-whatisiiasa/what_is_iiasa.html Ulf Dieckmann Program Director Evolution and Ecology Program International Institute for Applied Systems Analysis A-2361 Laxenburg Austria

Email dieckmann@iiasa.ac.at Phone +43 2236 807 386 Phone secretary +43 2236 807 231 Fax +43 2236 807 466 or +43 2236 71313 Web http:/-/www.iiasa.ac.at/Research/EEP Online reprints http://www.iiasa.ac.at/~dieckman FroSpects Network http://www.iiasa.ac.at/Research/EEP/FroSpects FinE Network http://www.iiasa.ac.at/Research/-EEP/FinE FishACE Network http://www.iiasa.ac.at/-Research/EEP/FishACE dieckmann@iiasa.ac.at

IST Austria SummerInternship Feb15 deadline

IST Austria has just launched a summer internship program for outstanding undergraduate and masters students interested in basic research in a wide range of areas, including evolutionary biology. Interns will choose a group to work in, will be assigned a specific project and will conduct research under the close supervision of one of the members of the faculty and, for experimental labs, a lab mentor.

Duration: 8 -12 weeks between May 15 and September 15 Benefits: Salary, full social security coverage, reimbursement of travel costs, subsidized housing

To apply for the program and to see a list of IST Austria faculty members participating in the program, visit http://ist.ac.at/research/isternship . The deadline for applications is February 15th 2014 To learn more about IST Austria please visit www.ist.ac.at For enquiries, please contact istintern@ist.ac.at.

Nick.Barton@ist.ac.at

Incomplete lineage sorting

Dear Evoldir members,

I looking for documentation addressing that if introgression (due to secondary contact or not) is part of the processes of incomplete lineage sorting or if it is different.

I can't be able to find documentation on this question.

Consequently, I wonder if anyone can give clues to find documentation or information.

Thanks by advance.

Best regards,

Pierre-Alexandre Rastorgueff

pierre-alexandre.rastorgueff@imbe.fr

Kansas StateU REU

ANNOUNCING: Summer 2014 REU Opportunities in The Ecology and Evolution of Changing Environments at Kansas State University

Kansas State University invites applicants for a 10-week

REU Summer Program. The focus of the program is on the mechanistic understanding of ecological and evolutionary responses to short- and long-term responses to changing environments. Research projects will address biological patterns observed in changing environments by examining underlying genetic, developmental, physiological, or ecological mechanisms.

The program is hosted by the Ecological Genomics Institute, The Konza Prairie Biological Station, and the Division of Biology at K-State. Over 30 faculty from the Division of Biology and Departments of Entomology, Geography, and Plant Pathology, will serve as potential mentors. Participants will learn modern approaches in ecology and evolutionary biology, attend professional development seminars, travel to important ecological sites and genomic centers in Kansas and Missouri, and have two opportunities to present their research. The program covers costs of accommodations. Participants will also receive a generous stipend.

The deadline for applications is the 1 March 2014. Complete information about the program is available by visiting http://www.ksu.edu/reu. Specific questions can be directed to the PIs (Dr. Bruce A. Snyder and Dr. Theodore J. Morgan) at biologyreu@ksu.edu.

Theodore J Morgan, Associate Professor Division of Biology, Kansas State University, Manhattan, KS 66506

tjmorgan@ksu.edu

KentStateU SummerUndergradREU AdaptationHumanImpacts

ANNOUNCING: Summer 2014 REU opportunity focused on Terrestrial-aquatic linkages in urban impacted ecosystems at Kent State University and The Holden Arboretum

Kent State University and The Holden Arboretum invite applicants for a 10-week summer research training program. Students enrolled in this program will conduct mentored research into the importance of terrestrial-aquatic linkages in the ecology of urban-impacted ecosystems. This research will be designed to examine how human activities such as urbanization, industry, farming, mining, and recreational activities affect the way terrestrial and aquatic ecosystems interact. Projects might compare sites with and without urban impact to examine: nutrient cycling in soils and streams, microbial community composition in forest soils and stream sediments, plant-soil interactions, how shredders modify terrestrial leaf litter input to stream ecosystems, the effects of terrestrial pollutants on aquatic microbial community structure and function, how terrestrial and aquatic biogeochemical cycles are affected by human activities such as acid precipitation and land-use change. Along with learning about hypothesis generation, project design, and ethics in research, students will receive additional training archiving data in a geospatial database and will participate in weekly seminars.

Participants will be provided housing, and a $500/week stipend.

Students must have good standing at a community college, college or university and be a United States citizen or permanent resident. Members of underrepresented groups are strongly encouraged to apply.

Deadline for applications February 17, 2013.

For more information and application procedures please see the program website at http://ecologyREU.kent.edu or contact the REU Coordinator at ecologyREU@kent.edu or the PIs Patrick Lorch (plorch@kent.edu), Mark Kershner (mkershne@kent.edu) or Kurt Smemo (kurt.smemo@gmail.com).

-Pat

Patrick Lorch

Ecology REU: ecologyREU@kent.edu http://ecologyreu.kent.edu Biological Sciences Dept. Kent State University

O: 330-672-7888 Lab web page: http://lorchlab.wordpress.com plorch@kent.edu

MaxPlanck Germany FieldTrainees CricketBehaviour

*FIELD**TRAINEES* needed in fulltime for Field Cricket Project at the *Max Planck Institute for** **Ornithology*.

Website: http://www.orn.mpg.de/159079/Research_Group_Dingemanse Location: Munich (LMU) and Seewiesen, Bayern, Germany.

Job description:

The field trainees will help collect behavioural and life-history data on Field Crickets (Gryllus bimaculatus)

and maintenance of the crickets frombeginning of April toAugust 1ˆst , 2014.The research focuses primarily on identifying how the social environment (ie. Other individuals) generate and maintain individual differences in behaviour and behavioural plasticity.Trainees will work closely with an international team consisting of one post-doc, one PhD-student and various Master students. The research project is intense and will have typically only 1-2 days off per week. Duties include behavioural observations, cricket handling (marking, measuring), data entry and data management.

*_Qualifications_**_/Experience_**_:_*

Candidates shouldstudy Biology or a related field.Preferred candidates have experience with handling small insects and working as part of a research group. Ideal candidates are highly motivated, well organized and able to work independently, while at the same time able to function well in a big group.

Non-EU candidates are not eligible for this position. A small financial compensation and housing in shared accommodation will be provided.Acceptedtrainees should be vaccinated against Tick Borne Encephalitis (TBE or FSME) before arriving in Seewiesen. Applicants should also be aware that Lyme disease (carried by ticks)is prevalent in the area and should inform themselves about this disease beforehand.

In an effort to employ more people with disabilities, the Max-Planck-Society specifically encourages people with disabilities to apply for the position.

Applications: Review of the applications will begin February 15th and continue until the position is filled*.*To apply, please send (1) a statement of relevant experience, (2) a short resume or CV,and(3) contact information for two references to Alexia Mouchet (eMail:amouchet@orn.mpg.de).

Alexia MOUCHET

Max Planck Institute for Ornithology Evolutionary Ecology of Variation Eberhard-Gwinner-Straße 7/8 82319 Seewiesen GERMANY

Email: amouchet@orn.mpg.de

amouchet <amouchet@orn.mpg.de>

MichiganStateU KBS SummerREU

The Michigan State University Kellogg Biological Station (KBS) is currently accepting applications for the *Summer 2014 Research Experience for Undergraduates (REU)* *Program*. KBS will be funding 8-10 REUs on projects related to Ecology, Evolutionary Biology, and Sustainable Agriculture.

The KBS REU program provides Free Room & Board, up to $400 in travel expenses, up to $500 in research funds, and a $4,500 stipend. The program runs 10-weeks from late May to early August. Applicants must be currently enrolled as a full time student. We especially welcome applications from students from underrepresented groups in the sciences and first generation college students.

Research projects for Summer 2014 include:

-Plant Eco-physiology -Restoration ecology -Mating system evolution -Using soil tests to survey farmer attitudes about soil health -Effects of genetic diversity on plants and insects -Algal adaptation to temperature and nutrients -The role of mutualisms in plant adaptation

For more information or to apply please visit: http://-/www.kbs.msu.edu/education/reu *Applications are due February 15th. *

About KBS: The Kellogg Biological Station is located in Southwest Michigan and is housed on the shores of beautiful Gull Lake. KBS is the academic home to 15 MSU professors with research expertise in Ecology, Evolution, and Sustainable Agriculture. KBS encompasses over 3,000 acres and includes the KBS Bird Sanctuary, KBS Long-term Ecological Research Site, Great Lakes Bioenergy Research Center, Experimental Pond Lab, Lux Arbor Reserve, KBS Farm and Pasture Dairy and the Kellogg Forest. Each summer over 30 undergraduates from across the country live in residence at KBS for courses, research and internships. For more information visit on facebook or www.kbs.msu.edu . Funding for the KBS REU program is provided by BEACON: An NSF Center for the Study of Evolution in Action (beaconcenter.org), The Great Lakes Bioenergy Research Center (www.glbrc.org), and the KBS Long Term Ecological Research Site (lter.kbs.msu.edu).

Michael A. Grillo, Ph.D. Academic Program Coordinator W.K. Kellogg Biological Station Michigan State University grillom1@msu.edu

Michael Grillo <grillom1@msu.edu>

NESCent 2014 FilmVideoContest

NESCent 2014 Evolution Film Festival/Video Contest

Scientists and science educators of all stripes - students, postdocs, faculty, and full- or part-time science communicators - are invited to enter the fourth annual Evolution Video Competition, sponsored by the National Evolutionary Synthesis Center (NESCent). To enter, please submit a video that explains a fun fact, key concept, compelling question, or exciting area of evolution research in THREE MINUTES OR LESS.

Entries may be related or unrelated to your own research, and should be suitable for use in a classroom (K-12, undergraduate, graduate...your choice). Videos should be both informative and entertaining. (In other words, no taped lectures or narrated Powerpoint presentations!) Animations, music videos, and mini documentaries are all fair game.

The finalists will be screened at the 2014 Evolution meeting in Raleigh, NC. (You do not need to attend the conference in order to enter a video.)

First- and second-place winners will receive up to $1,000 and $500, respectively, to cover travel expenses to a future meeting of their choice.

The deadline to submit your video(s) is FRIDAY, MAY 31st, 2014.

For more information (and to see entries from previous years) please visit filmfestival.nescent.org or contact Jory Weintraub (jory@nescent.org) or Robin Smith (rsmith@nescent.org).

Jory P. Weintraub, PhD Assistant Director, Education & Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200, Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Email: jory@nescent.org Skype: jory.weintraub

"Weintraub, Jory P" <lviscrst@live.unc.edu>

NSF GenealogyOfLifeProgram Announcement

The U.S. National Science Foundation has announced a new program for funding.

Program Title: Genealogy of Life (GoLife)

Program URL: http://www.nsf.gov/pubs/2014/-nsf14527/nsf14527.htm Synopsis of Program: All of comparative biology depends on knowledge of the evolutionary relationships (phylogeny) of living and extinct organisms. In addition, understanding biodiversity and how it changes over time is only possible when Earth's diversity is organized into a phylogenetic framework. The goals of the Genealogy of Life (GoLife) program are to resolve the phylogenetic history of life and to integrate this genealogical architecture with underlying organismal data.

The ultimate vision of this program is an open access, universal Genealogy of Life that will provide the comparative framework necessary for testing questions in systematics, evolutionary biology, ecology, and other fields. A further strategic integration of this genealogy of life with data layers from genomic, phenotypic, spatial, ecological and temporal data will produce a grand synthesis of biodiversity and evolutionary sciences. The resulting knowledge infrastructure will enable synthetic research on biological dynamics throughout the history of life on Earth, within current ecosystems, and for predictive modeling of the future evolution of life.

Projects submitted to this program should emphasize increased efficiency in contributing to a complete Genealogy of Life and integration of various types of organismal data with phylogenies. This program also seeks to broadly train next generation, integrative phylogenetic biologists, creating the human resource infrastructure and workforce needed to tackle emerging research questions in comparative biology. Projects should train students for diverse careers by exposing them to the multidisciplinary areas of research within the proposal.

Due Date for Full Proposals: March 26, 2014

Estimated Number of Awards: 4 to 6 awards anticipated in Fiscal Year 2014

Anticipated Funding Amount: $10,000,000 is the anticipated budget available to the program in FY 2014, pending the availability of funds. Each award, whether single-institution or collaborative project, may range up to durations of five years. The maximum budget for any single project is $2,500,000

dmindell@nsf.gov

NeuchtelU 2 VolFieldAssist AvianEvolution

Employer: University of Neuchâtel

Location: Vicinity of Neuchâtel and Bern, Switzerland

Details: Website: www2.unine.ch/ecophy

Duration: start on 1st of April 2014 and will continue throughout early/mid July 2014

Job Type: Volunteer

Application Deadline: 28th of February 2014

Job Description:

VOLUNTEER FIELD ASSISTANT POSITION to study oxidative stress in relation to social status in house sparrows in Switzerland.

We are seeking 2 research assistant for the upcoming breeding season to join a project investigating the impact of oxidative stress and social status on the development of reproductive strategies in house sparrow. The project is based at the University of Neuchatel, Switzerland (PI: Prof. Fabrice Helfenstein, PhD student: Jacqueline Huber) and will be conducted in the vicinity of Neuchâtel and Bern, Switzerland. The work will start on 1st of April and will continue throughout early/mid July. Our project investigates how males with different positions in a dominance hierarchy allocate their antioxidant resources to the protection of their sperm vs. the protection of their somatic functions, and how such allocation strategies affect the quality of the sperm they produce. The work of the volunteer will consist in field and lab work. This includes assisting the PhD student with catching and banding birds, behavioural observations, sample collection, data management and data analysis. This is a volunteer field assistant position, thus the applicant should cover his/her own accommodation and food. Travel expenses might be covered for European applicants (partly for overseas applicants), and a possible stipend could be granted at the end of the season.

Qualifications: (1) Ability to work and live in small groups and sociable personality, (2) Fluent in English, (3) Ability to endure long working days, (4) Knowledge in observing & handling birds is highly desirable, (5) Driving license is helpful, (6) Basic knowledge of French or German is helpful although not essential.

To Apply: Applications - including a CV and a letter of motivation (1 pg.) - should be send to : JACQUELINE HUBER (jacqueline.huber@unine.ch). Please use "Volunteer Field Assistant in Switzerland" as the subject and note your availability during this time period in the body of the e-mail. Applications received until 28th February 2014 will be given full consideration. For further information on the lab & project, see www2.unine.ch/ecophy

Deadline extended

Jacqueline Huber <jacky_huber@hotmail.com>

OmennPrize EvolutionMedicine

The Evolution, Medicine, & Public Health Foundation (http://evolutionarymedicine.org) invites nominations for the Omenn Prize for the best article published in 2013 in any scientific journal on a topic related to evolution in the context of medicine and public health. The $5000 prize is made possible by a generous donation from Gilbert S Omenn. It will be awarded in April 2014 to the first author of the winning article.

Any relevant peer-reviewed article is eligible, but the prize is intended for work that uses evolutionary principles to advance understanding of a disease or disease process. The prize committee will give priority to articles with implications for human health, but many basic science or theoretical articles have such implications.

Nominations should include a copy of the article (if distribution is permitted) or an abstract and link to the article, and a brief nominating statement (<250 words) in the body of an email to OmennPrize@evolutionarymedicine.org. Authors are encouraged to nominate their own articles, but nominations of articles by others are also welcome.

The Prize Committee is chaired by Allen Rodrigo, and its members are Carl Bergstrom and Sarah Tishkoff. Papers by committee members, their students and lab group members are not eligible, and articles by their co-authors or close associates are subject to special conditions.

Nominations will be accepted at OmennPrize@evoluitonarymedicine.org until 5pm, 28 February, 2014 US Eastern Standard Time.

rmnesse@gmail.com

PlantEvolution Symposia funding

Funding of up to £43k is available to run symposia with slots available from 2016 onwards. Application deadline is 28th February 2014.

The internationally renowned series of New Phytologist Symposia (NPS) aim to support emerging and key areas of research. Usually these meetings would be expected to extend over one to three days, with invited speakers and a maximum of 120 delegates. In this way we hope to provide an informal atmosphere for the stimulation and exchange of ideas and the building of collaborations. We particularly encourage the involvement of early-phase career scientists and as such a number of travel grants will be awarded in association with each meeting.

New Phytologist highlights the importance of plant evolution by dedicating one of its four key sections to this research area, covering studies from the molecular to ecological level. A number of recent symposia have covered evolution topics. Details of past and upcoming symposia can be found here: www.newphytologist.org/symposia If you are interested in organising a New Phytologist Symposium, please complete the proposal pro forma (http://www.newphytologist.org/app/webroot/-img/upload/files/NPSproposal_proforma2013.docx) and email this to the Managing Editor (np-managinged@lancaster.ac.uk) by the end of February. Feel free to get in touch with any queries or for guidance on completing the proposal.

We also welcome workshop proposals throughout the year and there is no set deadline for these; we can support workshops scheduled from 2015 onwards. Further details here: http://www.newphytologist.org/-workshops .

Dr MICHAEL PANAGOPULOS Development Coordinator, New Phytologist

New Phytologist Central Office, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK Tel: + 44 1524 592124 Fax: + 44 1524 594696 Email: m.panagopulos@lancaster.ac.uk Website: www.newphytologist.org Twitter: @NewPhyt Facebook: fb.com/NewPhytologist

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New! 2012 Impact factor 6.736

Virtual Special Issue to mark the 200th volume of New Phytologist http://newphytologist.org/-200VSI New Phytologist Symposia 2014 Mycorrhizal symbioses - CAM plants - Next generation scientists http://www.newphytologist.org/symposia m.panagopulos@lancaster.ac.uk

Predatory journals

Hello All,

Given the recent explosion in Open Access publishers, you might wonder which ones are credible and which aren't.

If so, you might find the following list helpful:

http://scholarlyoa.com/publishers/ Regards, Rich Palmer

A. Richard Palmer, FRSC Systematics and Evolution Group Department of Biological Sciences University of Alberta Edmonton, Alberta T6G 2E9 CANADA phone: (780) 492-3633 message: (780) 492-3308 FAX: (780) 492-9234 http://www.biology.ualberta.ca/-palmer/palmer.html Secretary-General Comparative Morphology & Development section Canadian Society of Zoologists: http://www.biology.ualberta.ca/CMD/-home.htm Rich Palmer <rpalmer@ualberta.ca>

Software BAli-Phy 2 2 0

BAli-Phy version 2.2.0 is now freely available. BAli-Phy is a Bayesian MCMC program for estimating phylogenies and sequence alignments jointly from unaligned sequence data. This release adds the ability to handle alignment uncertainty while inferring positive selection.

The main new features are: (http://www.bali-phy.org/-news.php#2.2.0) - site-dependent codon models: M1a, M2a, M2a_Test - branch-site codon models: branch-site[2,HKY,F3x4] - inference of ancestral sequences at internal nodes - internal representation of models entirely rewritten

You can download binaries for Linux, Mac, and Windows here: - http://www.bali-phy.org/download.php

You can read the updated manual here: - http://-www.bali-phy.org/README.xhtml

If you have any trouble using bali-phy, please post your questions to bali-phy-users@googlegroups.com I should be able to respond fairly quickly.

-BenRI

benjamin.redelings@duke.edu

Software ObStruct

I'd like to introduce a new tool for population genetics analyses called ObStruct. ObStruct is software to objectively analyze ancestry profiles produced by the Bayesian population genetics software packages Structure, InStruct and BAPS. Presently, these ancestry profiles are visualized with distruct and subjectively interpreted. ObStruct applies the R2 (R-squared) statistic to objectively determine whether the fixed factor of interest (e.g. geographic origin) correlates with inferred structure. It goes on to determine the amount that each sampled and inferred population contributes to the overall structure in the data and tests significance by permuting ancestry profiles for the overall data set and for pairwise combinations of sampled populations. Finally, ObStruct produces three CDA plots which visualize the clustering of individuals by sampled population within your data in a manner similar to a PCA plot.

ObStruct is implemented in Perl and is available from our lab website at: http://goddardlab.auckland.ac.nz/-ObStruct The publication for ObStruct is available for free from PLoS ONE here: http://-www.plosone.org/article/fetchObject.action?uri=-info%3Adoi%2F10.1371%2Fjournal.pone.0085196&representation=PDF If you have any questions please feel free to email me at: v.gayevskiy@auckland.ac.nz

-Vel

Velimir Gayevskiy <v.gayevskiy@auckland.ac.nz>

SouthAmericanConservation funding

The Neotropical Grassland Conservancy (NGC) is a non-profit organization dedicated to promoting the conservation of grasslands, gallery forests, wetlands, and associated ecosystems in South America. The NGC supports Latin American researchers by providing grants and equipment for conservation research or education. Proposals are judged on merit and feasibility, conservation impact, and how closely the project meets the mission of the NGC.

The NGC has the following three funding programs, for more information visit www.conservegrassland.org . MEMORIAL GRANTS Grants provide funding for a variety of research topics in the grasslands. Eligibility: Latin American researchers affiliated with a university, museum, or conservation organization. Award: US $2000-5000 Deadline: 1 March

STUDENT GRANT PROGRAM Grants toward travel, food, housing, and consumable equipment expenses associated with field work.

Eligibility: Latin American researchers enrolled in M.Sc. or Ph.D. program in USA or South American University.

Award: US $1000 (recently increased from $500) Deadlines: 1 April, August, December

RESEARCH EQUIPMENT PROGRAM Grants provide basic science equipment to assist research projects or education. Eligibility: Latin American researchers affiliated with a university, museum, or conservation organization. Award: US $100-2000 Deadlines: 1 April, August, December

NEOTROPICAL GRASSLAND CONSERVANCY info@conservegrassland.org conservegrassland.org facebook.com/conservegrassland vimeo.com/27036933

dacostaj@bu.edu

UBath VolAssist MatingSystemEvolution

Evolution of avian mating systems 6 month voluntary position at University of Bath (UK) and University of Groningen (Netherlands)

We are seeking an enthusiastic and motivated student interested in contributing to a large-scale comparative project of bird mating systems. This is an office-based work that would suit a recently graduated biology student with interest in social behaviour and/or in birds. The task is to populate a database on behaviour, ecology and environment of a large number of bird species using published and unpublished data sources.

The ideal candidate will have a BSc, Diploma, MSc or PhD in zoology, evolutionary biology, behaviour or ecology. Experience with testing evolutionary hypotheses, data entering and statistical analyses is essential. Candidates with good working knowledge of R will be favoured.

The position will be based at Bath or Groningen although for an exceptional student an off-campus location may be acceptable. This is a voluntary position and will not involve official affiliation to either university, nor will it pay salary. A monthly stipend of 800 Euros will be available for an exceptional candidate. The position is subject to 1 month probation period.

Please send a 1 page cover letter, a short CV (max 3 pages), and the names of 2 referees to Joyce Rietveld (email: j.g.rietveld@rug.nl). The application deadline is 15 February 2014, interviews will be in late February, and the position will start from 1 March 2014.

Professor Tamas Szekely (Bath, T.Szekely@bath.ac.uk) and Professor Jan Komdeur (Groningen, j.komdeur@rug.nl)

bssts@bath.ac.uk

UKansas REUSummerProgram

The Department of Ecology and Evolutionary Biology at The University of Kansas announces that the Research Experiences for Undergraduates (REU) Program: Models in Ecology, Evolution and Systematics is now accepting applications for our ten-week program that will run May 21-July 25, 2014. Students will participate in mentored, independent research and will receive additional training.

Both biology majors and mathematics or computer science majors with an interest in biology are encouraged to apply. Students must have good standing at a community college, college or university and be a United States citizen or permanent resident. Members of underrepresented groups are strongly encouraged to apply.

For access to the application and information about the program, please visit http://eeb.ku.edu. Other inquiries may be directed to the program at eebreu@ku.edu. The application deadline is February 14, 2014.

Dr. Jennifer Gleason, Program director Dr. Mark Mort, Assistant program director

Dr. Jennifer Gleason Associate Professor University of Kansas Ecology and Evolutionary Biology 1200 Sunnyside Ave., Haworth Room 6006 Lawrence, KS 66045 785-864-5858 785-864-5860 (FAX) jgleason@ku.edu

"Gleason, Jennifer M" <jgleason@ku.edu>

UOxford VolResAssist Seabirds

Voluntary research assistantship in seabird behaviour & ecology

Skomer Island & University of Oxford

We are looking for an enthusiastic, hardworking young biologist to work as a voluntary Research Assistant to help with our pelagic seabird research on Skomer Island, Pembrokeshire, Wales, in Spring and Summer 2014. The work will involve several research projects coordinated by Prof Tim Guilford at Oxfords Department of Zoology (see http://oxnav.zoo.ox.ac.uk/). We utilise state-of-the art tracking technologies (miniature GPS, geolocators, time-depth recorders & on-board video) on several species (Manx Shearwaters, Atlantic Puffins, Common Guillemots, Razorbills). Most work will involve assisting three doctoral students with the day-to-day maintenance of the study burrows, weighing and monitoring breeding birds and their chicks, and the deployment and retrieval/downloading of tracking devices. It will also involve entering data collected in the field into appropriate databases. There will be a significant amount of nocturnal work, since the primary study species is the Manx Shearwater, which only arrives at the colony after dark. There will also be scope for involvement in other conservation and ecological projects on the island, which is a National Nature Reserve administered by the Wildlife Trust of South and West Wales.

Unfortunately we cannot provide a stipend but accommodation (shared and basic) on Skomer will be covered. However, the project is a great opportunity to gain valuable experience in modern field ornithology. There will also be opportunities for the assistant to learn some analytical techniques applied to animal movement data. Skomer has mobile coverage and some access to Internet, however movements to and from the mainland are limited because of unpredictable wind conditions. There is a small community of wardens, assistants and volunteers, who are involved in the running and conservation of the Nature Reserve, monitoring the seabird populations, and managing the daily and over-night visitors. There might be opportunities to visit other UK island reserves during the project.

Profile: we are looking for a motivated and hardworking biologist, who likes working in the field and can cope with difficult working and living conditions. Previous experience in the field or in harsh conditions is desirable, but not essential. Work on Skomer requires long hours (with some work at night and at dawn) spent in a cold and wet environment and considerable manual work. A good candidate should be able to work independently and have a reasonable level of fitness. Planning to embark on further research degrees in the future would be a plus (previous assistants have engaged in doctoral studies afterwards). It is also important that the assistant feels comfortable sharing sometimes crowded accommodation with a number of colleagues over long periods of time, and can cope with the occasional untidiness inevitably associated with fieldwork. Unfortunately, for administrative reasons, we can only accept applications from people having permission to work in the UK (UK and EU citizens, UK residents, or persons with a UK work permit).

We are looking for an assistant to work with us between April and September 2014. If you are interested, please email a CV and a statement of interest and arrange for two letters of reference to be emailed to tim.guilford@zoo.ox.ac.uk (with oliver.padget@zoo.ox.ac.uk in cc). The deadline for submitting applications (including reference letters) is the 14th February 2014. We will interview the shortlisted candidates (on Skype) shortly after and we expect to make a decision by early March.

Oliver Padget <oliver.padget@zoo.ox.ac.uk>

UTexas Austin REU SummerResearch

Undergraduate research positions are available for summer 2014 for students interested in interdisciplinary research in plant biology, ecology, and evolution. The positions are associated with our research program linking ecological, physiological, and genomic responses of switchgrass to predicted future drought conditions in the central Texas region.

If you are accepted into the program you will spend the summer learning how to do research, participating in group research projects, designing your own short research project, and presenting your work in an end-of-summer student symposium.

Students in the program will work in a research group headed by one of the following:

Dr. Tom Juenger (http://w3.biosci.utexas.edu/-juenger_lab/), Dr. Christine Hawkes (http://-www.sbs.utexas.edu/hawkeslab/) Dr. Tim Keitt (http://www.keittlab.org/)

SCHEDULE AND SUPPORT The REU positions are for ten weeks with the program starting the first week in June and ending the first week of August 2014. All students will be housed in a UT dormitory, and the costs of the dormitory and meal plan are included in the program. Each student will be awarded a salary of $4,500 for the summer, and some travel funds may be available to help defray the cost of traveling to Austin.

WHO SHOULD APPLY? Students in their sophomore or junior years of college, with strong credentials and majoring in ecology, biology, genetics, or related discipline are encouraged to apply. Participants must be U.S. citizens or permanent residents. Students must also be prepared for fieldwork outdoors in hot and humid conditions.

APPLICATIONS The application deadline is March 1. Applications should consist of a single pdf file containing a cover letter describing your experience, interests, future career plans, a copy of your transcripts, and contact information for two letters of recommendation. All materials should be sent via email to: Dr. Tom Juenger (ut.reu.2014@gmail.com)

tjuenger@austin.utexas.edu

UTexas ElPaso REU Biodiversity

REU Opportunity Summer 2014: "Research Experience for Undergraduates in Chihuahuan Desert Biodiversity"

The University of Texas at El Paso (UTEP) Department of Biological Sciences invites applicants for the NSF sponsored Research Experience for Undergraduates (REU) in Chihuahuan Desert Biodiversity. This is a 10 week summer program. The goal of this program is to provide undergraduate students with experience in hypothesis-driven collaborative research utilizing field based and/or laboratory methods and fully engage students in projects associated with the ecology and evolution influencing Chihuahuan Desert biodiversity.

THE PROGRAM PROVIDES: - High quality research experience in ecology and evolutionary biology in the field and/or lab - Research opportunities at the Indio Mountains Research Station (IMRS), a 40,000 acre facility controlled by UTEP - One-on-one and group mentoring from active research faculty in multidisciplinary fields - Training in bioethics and other relevant professional skills

THE PROGRAM INCLUDES: - $5,000 stipend for 10 weeks - Housing in shared apartment and field station - Travel reimbursement of up to $600

For more information on the program, research projects or to apply please visit: http://science.utep.edu/cdb-reu/ email: (cdb-reu@utep.edu)

mlmoody@utep.edu

PostDocs

AberystwythU UK BioinformaticsMetagenomics

Fully funded (3 year) postdoctoral position in bioinformatics and metagenomics available in the UK. Closing date for applications 17th February!

Please find more details at: http://www.aber.ac.uk/-en/media/departmental/humanresources/pdfs/jobs/-IBERS-13-66-(External).pdf

Thanks,

Chris.

Chris Creevey M.Sc., Ph.D. Reader in Rumen Systems Biology.

Institute of Biological, Environmental and Rural Sciences (IBERS), Aberystwyth University, Room 3.33, Edward Llwyd Building, Penglais Campus, Aberystwyth, Ceredigion, SY23 3FG, UK.

Tel: +44 1970 62 1612 Email: chris.creevey@aber.ac.uk www.aber.ac.uk/en/ibers/staff/chc30 "Chris Creevey [chc30]" <chc30@aber.ac.uk>

Blanes Spain MarineEvolution

One Marie Curie postdoc position is available at the Marine Benthic Molecular Ecology team of the /C//entre d'Estudis Avançats de Blanes/, CEAB-CSIC (Blanes-Spain)

The CEAB belongs to the Spanish /Consejo Superior de Investigaciones Científicas/ (CSIC). The Centre is located on the NE Mediterranean coast of Spain, close to Barcelona. The Marine Benthic Molecular Ecology group of the Department of Marine Ecology investigates Phylogenetic, Biological, and Ecological topics on marine fishes and invertebrates, by both traditional and molecular approaches, including, among others, population genetics, gene expression, and metabarcoding of benthic communities and sponge microsymbionts.

Duties: The postdoc project aims at ascertaining the ecological conditions and over-expressed genes related to an increased production of secondary metabolites in two Atlanto-Mediterranean sponges. The research is in the frame of the BluePharm Train Marie Curie Network. Experimental fieldwork is foresee.

Requeriment: Candidates should belong to the Marie Curie category of "Young Experienced Researchers", that is with *not more tan 5 years of research experience, including PhD *research They must *not be Spanish Residents at least during the 12 last months* (i.e. from Mars 2012 to Mars 2014) Both diving and laboratory (molecular/bioinformatics) experience are requested.

Place of work: Blanes (Girona, Costa Brava) Spain

Form of employment: Temporary employment.Extent: 100%, two years.

Tentative starting date: 01/04/2014.

Application: Applications should be sent before Mars 15th (2014) to my E-mail (Iosune@ceab.csic.es) with an attached CV and two reference letters. Diving and laboratory experience must be explained in detail. Skype interviews will be performed with the pre-selected candidates.

iosune@ceab.csic.es

Colorado EvolutionaryGenomics

Postdoctoral Associate in Evolutionary Genomics, Fort Collins, Colorado

A postdoctoral position is available at Colorado State University. The successful applicant will work in the Plant Evolutionary Genomics Lab of Dr. John McKay. We are looking for a highly motivated individual with a PhD in Evolution, Quantitative Genetics or Comparative Genomics. The successful candidate will have a strong publication record that demonstrates their ability to test hypotheses regarding evolution and gene function using polymorphism and divergence data. Our lab will complement these data with functional genetics experiments. No prior experience with Plants is required.

This focus of this Postdoctoral position is to study the evolution of genes and gene function across the Brassicaceae family of plants. The Brassicaceae comprise a large family containing more than 3,000 species, including the model plant Arabidopsis and agriculturally important Brassica species, as well as allopolyploidy, other whole genome duplication events and lineages with rapid reductions in genome size. The McKay lab and collaborators have worked to extend functional knowledge beyond the reference strain of Arabidopsis thaliana, in order to understand the loci that contribute to adaptation. We are now extending this evolutionary analysis to include both within species polymorphism and divergence across the Brassicaceae family.

The position is available immediately, but the start is flexible to some degree. Salary and benefits are competitive, and CSU is an excellent academic environment for the study of evolution and plant biology. Our lab group has excellent interactions with colleagues in bioinformatics, plant physiology, ecology, evolutionary genetics and molecular biology. Fort Collins, Colorado is located on the Front Range (eastern side) of the Rocky Mountains and is ranked highly among great places to live.

Interested applicants should submit a letter of interest, statement research interest and experience, curriculum vita, and contact information of three professional references.

Applications should be sent as a single pdf to Joanna Holliday, Director of HR, College of Agricultural Sciences, at cas_pool@mail.colostate.edu with Subject: Postdoctoral Fellow Pool.

Review of applications will begin on 12 February 2014 (Darwin's and Lincoln's birthday) and continue until the position is filled. Questions regarding the research can be sent to Dr. John McKay. jkmckay@colostate.edu

http://www.mckaylab.colostate.edu jkmckay@colostate.edu

ColumbiaU PopulationGenomics

POSTDOC IN POPULATION GENETICS, COLUMBIA UNIVERSITY

A postdoctoral position is available in Molly Przeworski's group at Columbia University.

Our research focuses on understanding mutation and recombination in humans and other species, and on modeling and detecting the footprints of natural selection in genetic variation data. For more information, see http://przeworski.uchicago.edu/wordpress/ The specific postdoctoral project will be focused on the analysis of recombination patterns in birds. Applicants for the position must have a strong background in bioinformatics, including experience with genomic data analysis, as well a sincere interest in the genetics and evolution of non-model organisms. Programming skills in R and Perl/Python are essential.

The group is located in a newly renovated computational space on the main (Morningside Heights) campus of Columbia University, contiguous to labs run by Harmen Bussmaker, Dana Pe'er and Guy Sella. It benefits from close ties with these groups as well as those of Itzik Pe'er in Computer Science and Joe Pickrell at the nascent New York Genome Center.

Postdoctoral fellows at Columbia have access to nice, subsidized housing within walking distance of campus.

Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of recommendation) should be emailed to Molly Przeworski at <molly.przew@gmail.com>. The start date can be any time but no later than fall 2014.

Molly Przeworski Professor Dept. of Biological Sciences Columbia University

molly.przew@gmail.com

CornellU SharkPopulationGenomics

Postdoctoral position in shark comparative transcrip-

tomics and population genomics at Cornell University

A postdoctoral position is available in the laboratory of Michael J. Stanhope in the Department of Population Medicine and Diagnostic Sciences, in the Cornell College of Veterinary Medicine. Research areas of the lab involve evolutionary genomics of a wide variety of organisms including bacteria, protozoans, and sharks. We are looking for a person to work in the area of elasmobranch comparative transcriptomics and/or population genomics. This work will be conducted in collaboration with Dr. Mahmood Shivji from Nova Southeastern University's Save Our Seas Shark Research Center and Guy Harvey Research Institute. The comparative transcriptomic work would be designed to assess the molecular features associated with various physiological, behavioral and reproductive life history differences characteristic of different taxa. The population genomics work would involve analyzing genotyping by sequencing data originating from global population samples of different species of sharks, with the goal of developing a high-resolution population structure and demographics picture for conservation management purposes.

Applicants must have a Ph.D. in a biological sciences discipline and be comfortable working with high throughput short read datasets in a Linux environment. The ideal candidate will have a background in population genomics, and/or eukaryotic transcriptomics.

The start date is flexible, but preferably before April/2014. Applications will be accepted until the position is filled. Competitive salaries commensurate with experience and skills, as well as a generous benefits package will be offered. The position is full-time for two years subject to the completion of a satisfactory probation period for new appointees; further extension may be available subject to funding, need and performance.

Interested applicants should send a CV, a brief description of research interests and experience, and contact information for three references to Michael J. Stanhope at mjs297@cornell.edu.

mjs297@cornell.edu

CornellU TeachingEvolutionaryBiol

Cornell University Teaching Postdoctoral Associate - Evolution and Biodiversity (University Title - Instructor) Office of Undergraduate Biology College of Agriculture and Life Sciences Ithaca, New York

The Office of Undergraduate Biology, in collaboration with the Department of Ecology and Evolutionary Biology (EEB) at Cornell University, invites applicants for a full-time Teaching Postdoctoral Associate (University Title - Instructor) with interest in developing skills and experience in university teaching in preparation for an academic career. Specifically, the postdoc will play a key role in supporting the transition of the course Evolutionary Biology and Biodiversity (BIOEE 1780) from a traditional lecture course format, to an active learning format focusing on student participation and group problem solving.

The Teaching Postdoctoral Associate, will be appointed for a one-year period with the possibility of extension, devoting 20% of their full-time effort to teaching the Biodiversity portion of the course, 30% of their effort to helping organize the active learning transition process, and 50% of their effort to helping develop active learning material and activities pertaining to the course goals and content. The successful candidate will collaborate with course faculty towards the following goals: formulate learning goals, develop an active learning-based curriculum that aligns with the learning goals, provide feedback on course teaching practices, and assess learning gains. There are potential opportunities for pedagogical research for motivated candidates.

* Qualifications * Candidates should hold a doctoral degree in Biology, Biology Education, or a related field and have excellent organizational, interpersonal communication, team building and collaboration skills. Experience in developing active learning curricula and coaching educators is highly desirable.

* Terms of Appointment * The annual salary for this 1-year appointment with the possibility of extension will be $45,000. The anticipated start date for the appointment is August 1, 2014.

* Applications * To ensure full consideration, applications must be received by February 20, 2014.

To apply: applicants should submit (as a single pdf file) their CV, a statement of teaching philosophy/experience, a statement of research experience, and the names, phone numbers, and email addresses of three individuals who can serve as references. Please send application materials to Dr. Kelly Zamudio at kelly.zamudio@cornell.edu

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, dis-

covery and engagement. Located in Ithaca, NY, Cornell University is an equal opportunity, affirmative action educator and employer.

krz2@cornell.edu

Edinburgh UK BioinformaticsProgrammer

Edinburgh Genomics, a major genomics facility within the University of Edinburgh, is recruiting a Bioinformatician to join our team analysing environmental, evolutionary and ecological genomics data.

The new genomics is at the centre of a revolution in bioscience. Edinburgh Genomics is a new venture from the University of Edinburgh that combines the world-leading ARK-Genomics and GenePool into one joint facility. The facility already has one of the largest installs of sequence generation and data analysis technologies in the UK, and has core support from the UK NERC, MRC, and BBSRC. Edinburgh Genomics aims to lead in quality, service and collaboration across all our genomics operations.

Working in a multidisciplinary team, the Bioinformatician (Programmer) (BP) will have a particular role in building and maintaining the underpinning computational architecture (including Laboratory Information Management System) that assures timely and robust delivery of next generation sequencing analyses to the Edinburgh Genomics user community. The BP will also ensure that Edinburgh Genomics stays abreast of developments in this rapidly changing field. This post will be based in a dynamic multidisciplinary team.

The BP will build and maintain systems to manage data from our high-throughput instrumentation (both sequencing - currently Illumina HiSeq 2000/2500 and MiSeq, and array/chip based), including the development and use of automated pipelines for data extraction, data archiving, data QC, report generation and automated analysis (e.g. alignment / assembly). A secondary role will be to provide bespoke bioinformatics support to the facility, including analysis and integration of high-density datasets in collaboration with scientists who partner with the facility.

A strong interest/track record in bioinformatics and programming/scripting is essential, as is experience of working with Linux or Unix operating systems. Experience in the integration and analysis of next-generation sequencing data is also essential. Experience with a relevant database management system is highly desirable. Previous experience of Laboratory Information Management Systems and their use in academic facility management would also be desirable.

We are seeking candidates with a degree in the biological sciences with a subsequent qualification (e.g. MSc, PhD) in bioinformatics; or a degree in computer science, mathematics or equivalent technical subject with subsequent qualification or experience in the biological sciences. The ability to communicate complex information clearly, orally and in writing is required. We require highly organised individuals with an interest in providing the most efficient tools and workflows to organise and analyse big data. A proven ability to publish the results of scientific experiments in peer-reviewed journals is highly desirable.

Closing date for applications: 03 Feb 2014

Start date: As soon as possible after 01 March 2014

Duration: 3 years

Salary: £30,424 - £36,298 pa

Full details can be found at http://tinyurl.com/-EG024405 Contact Mick Watson (Edinburgh Genomics head of Bioinformatics) for more information. mick.watson@roslin.ed.ac.uk

Edinburgh Genomics The University of Edinburgh Edinburgh EH9 3JT, UK

mark.blaxter@ed.ac.uk

Edinburgh UK GenomicsProjectManager

Edinburgh Genomics, a major genomics facility within the University of Edinburgh, is recruiting an Environmental Genomics Project Manager to drive developments in environmental, evolutionary and ecological genomics.

The new genomics is at the centre of a revolution in bioscience. Edinburgh Genomics is a new venture from the University of Edinburgh that combines the world-leading ARK-Genomics and GenePool into one joint facility. The facility already has one of the largest installs of sequence generation and data analysis technologies in the UK, and has core support from the UK NERC, MRC, and BBSRC. Edinburgh Genomics aims to lead

in quality, service and collaboration across all our genomics operations.

The key role of the Environmental Genomics Project Manager (EPM) will be to support NERC-funded environmental genomics projects, especially those managed by the NERC Biomolecular Analysis Facility. This will require understanding of the core questions in environmental, ecological and evolutionary genomics, and especially in the application of high-throughput genomic and genetic data to these problems. The EPM will also handle where necessary projects from other domains of the facility's work. The EPM will be part of the Edinburgh Genomics Project Management Team, and will ensure that all projects are delivered efficiently, effectively, on time and on budget to the highest quality.

The EPM will liaise with our collaborators at all stages, from project design through to data analysis and delivery. The EPM will assist collaborators with sample preparation and submission to the facility, manage sample delivery, and track projects through the facility. The EPM will oversee delivery of final datasets to collaborators and where appropriate assist collaborators in preparing manuscripts for publication.

The EPM will have a good knowledge of biology and biological systems in their specialist area. The EPM will be expected to keep up to date with developments in Edinburgh Genomics' major technologies (sequencing, arrays, genotyping, bioinformatics. A strong interest/track record in biological research is essential, as is experience of managing multiple projects concurrently. Experience in a customer-facing role is highly desirable. The ability to communicate complex information clearly, orally and in writing is extremely important. We are looking for a highly organised individual with a proven track record in project management.

We are seeking candidates with a degree in the biological sciences with a post-graduate qualification (e.g. MSc, PhD) and at least three years post-doctoral (or equivalent status) experience in a project management or similar role.

Closing date for applications: 13 February 2014

Start date: As soon as possible after 01/04/2013

Duration: 3 years

Salary: £30,424 - £36,298 pa

Full details can be found at http://tinyurl.com/-EG024398 Contact Mark Blaxter (Edinburgh Genomics Director) for more information. mark.blaxter@ed.ac.uk

Edinburgh Genomics The University of Edinburgh

mark.blaxter@ed.ac.uk

EmoryU DiseaseModeling VirusEvolution

Postdocs in Infectious Disease Modeling and Molecular Ecology/Evolution

Two postdoctoral positions are available at the Center for Disease Ecology in the Department of Biology at Emory University.

The Center for Disease Ecology focuses on integrating ecological and genetic data using theoretical, computational and phylogenetic analysis to gain insights into the ecological and evolutionary dynamics of infectious diseases. The postdocs will be supported through Emory University Center funds and through an NIH RO1 grant on the phylogeography of rabies virus in the United States. The postdocs will be expected to fully engage with a collaborative research team working on rabies ecology and evolution involving Emory, the CDC, University of Glasgow, the Canadian Food Inspection Agency and State Public Health offices in the Northeast US. The postdocs will also have the opportunity to develop independent research projects related to ecological and evolutionary dynamics of infectious disease.

For the position in infectious disease modeling, the ideal candidate would have a strong quantitative background in mathematical or statistical modeling of populations including the use of Bayesian statistics and MCMC. Familiarity with infectious disease processes and evolutionary analyses, including knowledge of Approximate Bayesian Computing (ABC), is preferred but not required.

For the position in molecular ecology and evolution, the ideal candidate would have a strong background in molecular evolutionary and phylogenetic analyses. He/she should be comfortable working with large datasets, have good computational and bioinformatic skills and be familiar with Bayesian coalescent approaches. Prior experience with virus evolution, landscape genetics or geographical information systems (GIS) would be preferred but not required. This candidate would be working closely with collaborator Dr Roman Biek and would be expected to spend some time in his group at the University of Glasgow.

The appointments would be for one year initially with

the possibility of further extension.

To apply, please send a letter of application with a statement of research interest, CV, and the names (with email addresses) of three referees. Applications should have "CDE Postdoc" as the subject field and should be directed to lreal@emory.edu or by mail to:

Professor Leslie A Real Center for Disease Ecology Department of Biology 1510 Clifton Road Emory University Atlanta, GA 30322

Roman.Biek@glasgow.ac.uk

IBE Barcelona OriginOfAnimals

Postdoctoral position in "Functional analyses in unicellular relatives of metazoans"

Overview Our research objective is to understand the origin of metazoan multicellularity. Our group has recently obtained the genome sequence of several unicellular relatives of Metazoa, such as Capsaspora owczarzaki and Creolimax fragrantissima. Surprisingly, we found that several genes involved in multicellularity (such as integrins, cadherins, tyrosine kinases and several transcription factors) are present in these single-celled taxa. The project aims to unravel the function of some genes key for multicellularity (specifically transcription factors) in these animal's unicellular relatives. To this end, we have recently developed some genetic tools in both Capsaspora owczarzaki and Creolimax fragrantissima. The applicant, besides working with the techniques available, is expected to play a role in trying to expand the techniques available. For further information on research goals see www.multicellgenome.com Position This is a full time position for a period of 24 months, starting as soon as possible (and no later than 1/11/2014). This position may be extended an extra year, subject to satisfactory progress and funding.The post holder will be strongly encouraged to develop fellowship applications to extend the project and appropriate mentoring will be available.

Place of work The Institute of Evolutionary Biology (Pompeu Fabra University-Spanish Research Council) provides a unique opportunity to conduct this research (see http://www.ibe.upf-csic.es/). The Institute is located in Barcelona's waterfront, adjacent to the Biomedical Parc of Barcelona (PRBB) and Hospital del Mar, forming the most important research cluster in Barcelona, and providing access to start-of-the art technological facilities. The group has a strong tradition in evolutionary biology and the analysis of protist genomes(www.multicellgenome.com). The city of Barcelona is a vibrant, modern city with very good living standards.

Eligibility The successful applicant will hold a PhD in the biological sciences with an strong background in cell biology, microbiology, and/or developmental biology. A proven experience in transgenesis is essential. Expertise with model organisms (yeast, Dictyostellium, Drosophila, etc), as well as proficiency in microscopy are a plus. You must have excellent scientific communication, presentation and writing skills, as well as very good critical and analytical problem solving skills.

Application procedure If interested, please apply by sending a cover letter that describes the motivation to work on the project, a CV, a brief statement of research experiences and interests, and contact information for at least two academic references as PDF files to jobs@multicellgenome.com. To discuss this role informally, please contact Dr. Iñaki Ruiz-Trillo (inaki.ruiz@ub.edu), T 34-93.230.95.00-ext. 6026. Closing date: 22 February 2014.

Iñaki Ruiz-Trillo <inaki.ruiz@ibe.upf-csic.es>

IPasteur PopStatGenetics

POSTDOC IN POPULATION AND STATISTICAL GENETICS, Pasteur Institute, Paris

A postdoctoral position in population and statistical genomics funded by the European Science Foundation (ERC) is available in the Human Evolutionary Genetics Unit (Quintana-Murci's Lab), in the Department of Genomes and Genetics at Institut Pasteur in Paris. The lab combines large empirical datasets and computation approaches to study human population genomics and the human immune response, for more information see http://www.pasteur.fr/research/-heg. Current work in the lab focuses on the genetic control of gene expression related to both mRNA and microRNA, using RNA-Seq, and immunity-related processes. The specific postdoctoral project will be focused on understanding genotype-by-infection interactions, through the detection of response eQTLs to various immune stimuli, in a large cohort of individuals of European- and African-descent sharing the same environment. Our lab benefits from the large and outstanding community of researchers in population genetics,

microbiology, immunology and computational biology at the Institut Pasteur and Paris Universities, providing a working interdisciplinary research environment.

Applicants must have a strong background in bioinformatics, including experience with genomic data analysis (especially RNA-Seq), and a desire to do research in human genomics and evolutionary biology. Skills in R programming and in workflow implementation (Perl/Shell scripting) are essential.

Informal inquiries as well as applications (including a CV, copies of relevant publications and contact information for at least two references) should be emailed to Lluis Quintana-Murci at <quintana@pasteur.fr>. The starting date can be any time but not later than June 2014.

Lluis QUINTANA-MURCI Unit of Human Evolutionary Genetics, CNRS URA3012 Institut Pasteur 25, rue du Dr. Roux 75724 Paris Cedex 15 France

Tel: +33 1 40 61 34 43 Fax: +33 1 45 68 87 27 e-mail: quintana@pasteur.fr

Lab Website: www.pasteur.fr/research/heg Lluis Quintana-Murci <lluis.quintana-murci@pasteur.fr>

IndianaU BehavioralEvolution

Postdoctoral Position Department of Biology Indiana University, Bloomington

A postdoctoral position is available in the Martins lab at Indiana University-Bloomington to conduct NSF-funded research on the behavioral evolution of wild zebrafish.

Our larger project aims to determine how links between complex behavioral traits (i.e., syndromes) influence evolutionary response to anthropogenic habitat changes. The position combines lab experiments at Indiana University with fieldwork in India, both providing the successful applicant with considerable flexibility to develop their own collaborative research. In the lab, the postdoc will join a research team conducting experiments on the impact of genetics, habitat and sensory physiology on zebrafish social roles and network dynamics. In the field, the postdoc will coordinate field expeditions to conduct a population-level survey of the aquatic ecology, social behavior and genetics of zebrafish.

Recent Ph.D. in Biology or related field required. Experience with small fish, international fieldwork, freshwater ecology, sensory biology, behavioral syndromes, and/or social network research are especially desirable. The successful applicant will be part of the vibrant behavioral research group at Indiana University and will have opportunities to gain additional training in phylogenetic comparative methods, sensory physiology, and genomic techniques.

Salary $39,000 to $42,000. Indiana University has a fine program of fringe benefits which adds significantly to the value of the stated salary, see http://-www.indiana.edu/~uhrs/benefits. Initial appointment is for one year, with start date as early as July 2014 and the possibility of extension for one or two additional years contingent on performance.

Please send any questions to Emilia Martins (emartins@indiana.edu). To apply, please submit a CV, brief statement of research interests, and contact information for three references to https:/-/Indiana.peopleadmin.com/postings/722 or send to Dee Verostko, 1001 E. Third Street, Bloomington, IN. Applications submitted by March 1, 2014 will be given full consideration. Women and minority candidates are especially encouraged to apply. Indiana University is an Affirmative Action/Equal Opportunity Employer.

emartins@indiana.edu

KansasStateU GenomicsAgroecology

A postdoc is available in the lab of Geoff Morris at Kansas State University (www.morrislab.org). The postdoc will work on a USDA-funded genomics/agroecology project on switchgrass genetic diversity and sustainable bioenergy. The successful applicant will also have the opportunity to develop their own research program on the genomics of adaptive traits in collaboration with the Morris lab.

We are a very interested in applications from those with backgrounds in evolution/popgen and experience in population genomics. Kansas State provides an excellent training environment for this research area, with the Institute for Ecological Genomics, Konza Prairie LTER, and many population and evolutionary genomics labs.

Details on the position and application instructions are below.

Best, Geoff

Geoff Morris, Assistant Professor Department of Agronomy | Kansas State University 3004 Throckmorton Plant Science Center | Manhattan KS, 66506 E-mail: gpmorris@k-state.edu | Web: http://-www.morrislab.org —

Position Description: A postdoctoral research associate is available in the lab of Geoff Morris for a USDA-funded genomics/agroecology project on the effects of switchgrass genetic diversity on the sustainability and viability of bioenergy systems. The successful candidate will: Develop and implement protocols to assay genomic diversity of switchgrass roots from soil cores. Analyze above-ground biomass yield and feedstock composition. Collaborate with soil scientists to integrate project elements. Publish and disseminate research results. Mentor students in crop/ecological genomics. Create an environment that fosters diversity and collegiality.

Required: Ph.D. in Genomics, Agroecology or related field. Demonstrated bioinformatics and population genetics skills to analyze large population genomic data sets. Demonstrated communication and organizational skills to coordinate an interdisciplinary research project. Strong commitment to expanding and fostering diversity.

Preferred: One year experience in population genomics.

How to apply: Send letter of application, resume, and contact information of three professional references to:

Brittany Green (bdgreen@k-state.edu) Department of Agronomy Kansas State University Please reference position #W0045445 in your email.

KyusyuInst Japan PlantComparativeGenomics

One Researcher Position available in Comparative Genomics (Kousuke Hanada), Kyusyu Institute of Technology, Japan

Job Description A successful applicant will take part in a project which is to conduct comparative genomics in Brassica genus including Arabidopiss. The project focused on omics approach including SNPs, transcriptome data, proteome data and metabolic data. Once we can find some genes under strong selection pressure, we will experimentally examine the genes in A. thaliana by other lab members. Main job of the applicant is to examine the comparative genomics using various omics data. The ideal candidate will have a strong background and experience of genome analysis by Phython, R, Perl, C++ or Java.

Relevant publications is as follows. 1. Hanada et al. (2013) Small open reading frames associated with morphogenesis are hidden in plant genomes. Proc. Natl. Acad. Sci. USA; 110(6): 2395-400 2. Hanada et al. (2011) Functional compensation of primary and secondary metabolites by duplicate genes in Arabidopsis thaliana. Mol Biol Evo. 28(1): 377-382. 3. Hanada et al. (2009) Increased expression and protein divergence in duplicate genes is associated with morphological diversification. PLoS Genet. 2009 5:e1000781

Contract Conditions One-year, full-time contract, renewable annually by evaluation until 31st of March 2016. Salaries are determined on an annual basis subject to the applicants' experience and performance.

Application and required documentation Application and required documentation (1) Curriculum vitae (with photo and e-mail address) (2) List of publications and other research achievements (3) Brief description of previous research and future research plans (4) Contact information of at least two reference persons (5)A recommendation letter from an immediate supervisor (or if impossible, from a third person).

Selection Process Applicants who pass the first document screening will be interviewed by Skype. Applications will be considered until the position is filled. Start of Employment April 1, 2014 or later.

Contact person. Kyushu Institute of Technology Department of Bioscience and Bioinformatics 8F-E819, 680-4 Kawazu, Iizuka, Fukuoka, 820-8502, Japan TEL: +81-948-29-7842 FAX: +81-948-29-7801 E-mail: kohanada@bio.kyutech.ac.jp

kohanada@psc.riken.jp

Leibniz-IGB Berlin 2 FungalGenomicsEcology

2 Postdocs and 2 PhD Studentships Biodiversity, Ecology, and Genomics of Aquatic Fungi

Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) Leibniz Centre for Agricultural Landscape Research (ZALF)

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) is the largest freshwater ecology research institute in Germany (www.igb-berlin.de) and one of 8 member institutes of the Forschungsverbund Berlin e.V (www.fv-berlin.de). IGB offers world-class laboratory and field facilities for interdisciplinary research and is a founding member of the Berlin Center for Genomics in Biodiversity Research. The Leibniz Centre for Agricultural Landscape Research (ZALF) brings together scientific competence from agricultural science, geo- and biosciences to socio-economics (www.zalf.de).

Fungi are of central importance for the global carbon cycle because of their role in the degration of complex organic matter such as plant material. Fungi also represent one of the last frontiers of biodiversity, as their taxonomic diversity and metabolic potential remain poorly understood. This is particularly true for those fungi that are abundant in freshwaters. MycoLink (Linking aquatic mycodiversity to ecosystem function) is an interdisciplinary project integrating the expertise of 4 Leibniz Institutes: IGB, ZALF, DSMZ, the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), the Leibniz Centre for Agricultural Landscape Research (ZALF), and the Leibniz-Institute of Zoo- and Wildlife Research in Berlin (IZW). We are seeking to recruit outstanding young scientists to establish an innovative research program, and currently invite applications for:

2 Postdocs and 2 PhD Students in Biodiversity, Ecology, and Genomics of Aquatic Fungi

2 positions (1 PostDoc, 1 PhD student) will focus on global biodiversity and evolutionary genomics of freshwater fungi, using second- and third-generation sequencing and bioinformatics to analyse natural populations and experimental cultures. For further information, contact Michael T. Monaghan (monaghan@igb-berlin.de)(monaghanlab.org).

2 positions (1 PostDoc, 1 PhD student) will focus on the ecological and functional role of aquatic fungi by combining state-of-the-art biochemical analyses with modeling in experimental and natural ecosystems. For fruther information, contact Hans-Peter Grossart & Katrin Premke (hgrossart@igb-berlin.de; premke@igb-berlin.de)

Applicants must hold a Diploma / Masters degree (PhD student positions) or PhD (Postdoc positions) in a relevant field. Positions are available for up to three years. Salary is according to the German TvöD (Postdoc: 100%, PhD student: 65% position). Positions will be based at IGB Berlin, IGB Neuglobsow, and at the Berlin Centre for Genomics in Biodiversity Research. The institutes of the Leibniz Association strive to increase the proportion of female scientists. Therefore, female candidates are specifically encouraged to apply. Disabled applicants with identical technical and personal qualification will be preferentially selected.

Please submit a curriculum vitae (including publication list), a brief statement of motivation and research interests, and the names and contact information of two referees. Please send all documents as a single pdf file to monaghan@igb-berlin.de. Review of the applications will start on 21 February 2014 and continue until the positions are filled. Interviews for shortlisted applicants will take place in March.

monaghan@igb-berlin.de

LeibnizInst EvolutionBiodiversity

WHAT: Postdoc position in Berlin for 2 years

APPLICATION DEADLINE: 14.02.2014

For WHOM: Ecological modeller

SUBJECT: historic biogeography; evolution of biodiversity

TO DO:

- Developing SDMs based on climatic and habitat reconstructions from the late Pleistocene by integrating recent findings from phylogeography and stable isotope analyses

- Coupling SDMs with dynamic/ evolutionary models to identify pattern of evolutionary history

Dr. Stephanie Kramer-Schadt

Leibniz Institute for Zoo and Wildlife Research A.-Kowalke-Str. 17 10315 Berlin, Germany Tel 0049-30-5168-714

kramer@izw-berlin.de

Alexandre Courtiol <alexandre.courtiol@gmail.com>

LeibnizInst Berlin HostParasiteInteractions 2

*THIS IS A REMINDER (application deadline:

15.02.2014):*

The Department of Ecosystem Research of the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) in Berlin together with the Free University of Berlin, invite applications for the position of:

Postdoc in Evolutionary Biology

Application deadline: 15.02.2014; Starting date: May 2014 or as soon as possible thereafter (interviews will be conducted in March); Duration of the position: 2 years

Project area: *"Host-parasite interactions in aquatic systems"*

The Postdoc will join the research group of Justyna Wolinska. The group is currently located at the Ludwig Maximilian University of Munich (Germany), but will move to Berlin in March 2014. The candidate is given the opportunity to develop their own research project. Depending on the interests / expertise of the Postdoc candidate, he / she might, for example, work in one of the following disciplines:

- molecular signatures of host-parasite coevolution in the wild

- genomics of host-parasite coevolution

- host-parasite coevolution and global environmental change (including field, experimental, and/or theoretical approaches).

So far the group has been exploring *Daphnia*-microparasites, but suggestions for other model host-parasite systems are welcome.

The Postdoc will have access to the unique, innovative experimental infrastructure of the IGB, to support molecular, microbial, and biogeochemical research. In addition, IGB is an active member of the Berlin Centre for Genomics in Biodiversity Research. We offer a stimulating working environment with plenty of possibilities for collaborations within the IGB and Free University of Berlin. Moreover, the group has established active international collaborations. Generous funds are available to cover attendance at national and international conferences as well as research stays in other universities.

The ideal candidate should have a PhD in evolutionary biology, ecology, molecular biology, bioinformatics or a related field. Ideally, he / she should have worked on host-parasite interactions, but this is not a must. We are seeking a highly motivated person who has an ambition to stay in academia. A record of successful publication is expected. We expect strong analytical and data handling skills and the ability to communicate within a cross-disciplinary research centre. Excellent writing skills in English, good work ethic, and creative thinking are desired. The working language of the group is English.

Applications should include 1) a letter of interest with a description of relevant experience, 2) curriculum vitae, 3) a list of publications, 4) a short description of the proposed research (max. 2 pages, including references), 5) names and contact information of three academic referees. Applications should be submitted as a SINGLE (!) PDF document to the following e-mail address: wolinska@bio.lmu.de, with the subject line: " Postdoc application <your family name>".

Inquiries can be made to Justyna Wolinska, e-mail: wolinska@bio.lmu.de.

The selection of the postdoctoral candidate will be based on his or her academic record and proposed research project.

Best regards,

Justyna Wolinska

Justyna Wolinska Ludwig-Maximilians-Universität München Department Biologie II Evolutionsökologie Grosshaderner Str. 2 82152 Planegg-Martinsried, Germany

Phone: +49 (0)89 2180 74201 Fax: +49 (0)89 2180 74204 email: wolinska@bio.lmu.de

http://www.evolutionary-ecology.bio.lmu.de/people/-assistant_profs/wolinska/index.html http://-www.evolutionary-ecology.bio.lmu.de/ http://-www.igb-berlin.de/

justyna.wolinska@gmail.com

MNH UBergen BeetlePhylogenetics

There is a postdoc position available in my lab, see:

http://www.jobbnorge.no/en/available-jobs/-job/99273/postdoctoral-fellow-in-biosystematics-phylogenetic-diversity-of-bark-and-ambrosia-beetles
Postdoctoral fellow in biosystematics - phylogenetic diversity of bark and ambrosia beetles

At the Museum of Natural History, University Museum of Bergen, a position as postdoctoral research fellow is available for 2 years in the NFR funded project ≪A phylogenomic approach to understand the diversification of bark beetles and associated microbes≫. The

fellow will be associated with the research group Phylogenetic Systematics and Evolution at the museum (http://www.uib.no/rg/pse).

Bark and ambrosia beetles are a species rich group of wood-boring insects that contain more than 10 % of the total weevil diversity. This group of wood-boring weevils shows extreme variation in ecological and biological adaptations, thus offering great opportunities for testing exciting evolutionary hypotheses. The postdoc will focus mainly on comparative phylogenetic analyses of diversification, particularly in relation to host plant evolution, symbiosis with microbial fungi, and variation in reproductive and genetic systems in these beetles. The research will be based in part on accumulated biological and ecological data, but additional fieldwork in the Afrotropics may be considered. It will also be necessary to participate in the reconstruction of large-scale bark beetle phylogenies. The postdoc will collaborate with team members from Michigan State University (East Lansing), University of Florida (Gainsville), one PhD student (started 2012) and the project leader at the University Museum in Bergen.

Applicants must hold a PhD degree in evolutionary biology with relevance to biosystematics. The thesis must have been submitted by the application deadline. Applicants should have broad experience with phylogenetic research and diversification analyses, or coevolutionary approaches and similar types of phylogeny based analyses. Entomological expertise and knowledge about bark and ambrosia beetles is considered an advantage, but not mandatory. The selected candidate must document ability to work independently and in groups, and have a proven record of publishing scientific papers.

Expected starting date is April 2014, but flexible within first half of 2014. Salary level 57 on the government salary scale (corresponding to NOK 473,100 per year).

Additional information on the position is available from the PI, associate professor Bjarte Jordal, phone +47 55 58 2233, e-mail: bjarte.jordal@um.uib.no

Bjarte Henry Jordal <Bjarte.Jordal@um.uib.no>

McMasterU MolecularEvolutionTheory

A Postdoctoral position is available immediately to work on theoretical aspects of molecular evolution at McMaster University under the direction of Dr. Brian Golding

We are looking for a postdoctoral fellow to develop theory to analyze sequence data with an eye toward their molecular evolution and the dynamic change of sequences over time. The successful candidate will have experience in developing theory and in applying this theory to the massive amounts of data available on the evolution of sequences.

Requirements: A PhD in bioinformatics, computer science, genetics or other relevant topic; a strong background in statistics; proficient in one or more scripting languages; experience with the analysis of large genomic data sets; a good publication record.

The candidate should be able to work independently and to have demonstrated the ability to develop with a project by generating new ideas and collaborative skills. We are particularly looking for candidates that have a proven publication track record.

Individuals interested in the position should send (1) a cover letter summarizing their research interests and expertise relevant to the general area (2) a Curriculum Vitae, (3) a listing of publications, and (4) the names and contact information for at least two people who can provide recommendations. The application should be sent as a single pdf file to

Dr. Brian Golding Dept Biology McMaster University Hamilton, ON Canada, L8S 4K1 Golding@McMaster.ca

Montpellier ModellingClimateAdaptation

Post-doctoral position at CEFE Montpellier, France

*Mechanisms of adaptation to Climate Change: how will phenotypic plasticity and microevolution affect forest tree phenology? *

Starting date: Up to 1ˆst December 2014

Duration: 24 months with possible extension of 12 months

Location: Montpellier, France

Net income is about 1900EUR/month, including pension and health benefits

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Overview

This 24-month post-doctoral project is part of the French National Research Agency project MeCC "Mechanisms of adaptation to Climate Change: how will phenotypic plasticity, microevolution and migration affect forest tree phenology". The post-doc will be responsible for carrying out simulations with the process-based species distribution model PHENOFIT to address questions about the relative contributions of microevolution and phenotypic plasticity to adaptation, and will be responsible for integrating adaptive mechanisms into PHENOFIT. The candidate will be based at the Center of Functional and Evolutionary Biology (CEFE) in Montpellier (France), supervised by Isabelle Chuine and also by Ophélie Ronce at ISEM, Montpellier. The candidate will also collaborate with Anne Duputié, a former Post-doctoral fellow who has worked in this topic, who is now Assistant Professor at GEPV, Univ Lille, and with Bérangère Leys, currently post-doctorate at CEFE with Isabelle Chuine and Xavier Morin and parameterizing PHENOFIT for silver fir.

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Key words

process-based species distribution model, climate change, micro-evolution, plasticity, quantitative genetics, niche evolution models, /Fagus sylvatica/, /Abies alba,/ /Quercus petraea /

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*Objectives of the post-doctoral project *

There will be two main tasks:

1.The post-doc will be responsible for estimating selection gradients on bud burst dates using the model PHENOFIT.

Selection gradients, i.e. the variation of the intensity and direction of selection acting on the trait will be calculated for sessile oak, beech and silver fir in various contexts: between years in the same location, along climatic gradients (altitudinal and latitudinal), and in future climate conditions using different climate scenarios. PHENOFIT is a process-based species distribution model, which simulates, using meteorological data, the detailed phenology (bud burst, flowering, fruit maturation, leaf senescence or bud set), the resistance to frost and drought of an average tree in a monospecific forest stand. A new version incorporates also growth, a more mechanistic representation of the resistance to drought and the impact of carbon reserves on survival. It has been parameterized for beech and sessile oak (Cheaib et al. 2012) and is being parameterized for silver fir. PHENOFIT provides the annual probability of survival and a relative reproductive success. PHENOFIT predict bud burst date each year as a function of accumulation of chilling and forcing temperature units, using phenological models modules adjusted to observed variation in phenology.

To compute selection gradients acting on bud burst date, we will modify the model, following two approaches. First, instead of using the bud burst date predicted by the phenological model as a function of experienced temperature in the simulation, we will artificially set the bud burst date to a given value and explore the consequences on different fitness components such as mortality and reproductive success. This will allow us to determine, for each year in the simulation, the optimal bud burst dates maximizing reproductive success and survival respectively. These predictions about selection gradients on bud burst dates will be tested by confronting them to empirically derived selection gradients in a small number of sites obtained. In the second approach, we will not constrain the bud burst date, but vary parameters of the reaction norm that describe the response of bud burst date to temperature (i.e. the parameters of the phenological models) and similarly estimate the consequences on fitness components. This will allow deriving optimal reaction norms for bud burst date taking into account the predictability of the environment along the yearly cycle. In both approaches, predicted yearly variation in mortality and reproduction will be combined in integrative fitness measures, such as the summed contribution of an average tree to seedlings production over a given time span.

The model will be used to compute mean fitness associated with variation in bud burst date at many spatial and temporal scales. The model can be run on selected locations or regions from a few kilometers square up to France or Europe, and on the historical period or the next decades up to 2100. This will allow us to estimate selection gradients of bud burst date across the species range, across the climatic space, and to estimate how they will vary with climate change following different IPCC

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NHM London ConvergentEvolution

Postdoc: Natural History Museum - Convergent Evolution

Salary: Â£27,888 per annum plus benefits

Contract: 30 month Fixed Term Appointment

Closing date: Midnight on Wednesday 5th February 2014

The Natural History Museum is one of the world's leading museums, internationally recognised for its dual role as a centre of excellence in scientific research and as a leader in the presentation of natural history through exhibitions, public programmes, publications and the web.

The Postdoctoral Research Assistant will work primarily with the PI (Dr Wilkinson) and secondarily with Dr Ralf Britz and other team members based at the University of Bath. They will have shared responsibility for the development/invention and prime responsibility for the implementation and testing of new approaches to measuring convergent evolution and characterising patterns in its distribution. Method testing may involve both simulations and empirical case studies, the latter requiring the integration of data from multiple sources. They will contribute to scholarly publications and outreach. The selected candidate will be proficient in interpreting phylogenies, interrogating databases, scripting, and use of relevant statistics.

The ideal candidate will have some familiarity with vertebrate morphology, experience of quantitative comparisons of macroevolutionary hypotheses, testing macroevolutionary trends, collating stratigraphic data, quantifying morphological disparity.

For a full job description and to apply online please visit the Natural History Museum website: www.nhm.ac.uk/jobs Mark Wilkinson <apodauk@gmail.com>

NHM Paris AdaptationGenomics

Postdoctoral position in the genomics of adaptation at the Natural History Museum in Paris

A two-year postdoc is available for an independent, creative and motivated post-doc to work on the genomics of adaptation and hybridization in mimetic butterflies. The postdoc will work with Violaine Llaurens and Mathieu Joron at the Institute of Systematics, Evolution and Biodiversity at the National Museum of Natural History in Paris (France).

Our group is interested in the ecological and genetic changes associated with adaptive wing color patterns in Heliconius butterflies. We are particularly interested in genomic architectures and the formation of a supergene controlling a spectacular wing pattern polymorphism associated with mimicry in the species Heliconius numata. This supergene is characterized by complex inversion polymorphism forming long haplotypic blocks, and a dominance hierarchy of alleles. This adaptive architecture appears to have evolved in response to selection for multiple mimicry forms, but how the variants corresponding to accurate mimetic phenotypes differentiate is still a puzzle. Processes such as ancestral polymorphism, large size mutations, or introgression may be involved, and some seem to be supported by our currently available resequence and transcriptome datasets. Our project aims at understanding the evolutionary origins and the functional basis of this genetic architecture in this lineage and how this relates to closely-related species. The postdoc will be in charge of developing population genomics approaches towards the dissection of the history of inversion polymorphism and recombination in H. numata and close allies, and transcriptomic/expression analyses to understand the functional basis of supergene expression.

Butterflies in the genus Heliconius have become a prominent group of insects for evolutionary genomics, with a rich evolutionary radiation, a reference genome, and vigorous collaboration between labs within the Heliconius consortium (www.heliconius.org). This project, funded by a grant from the Agence Nationale de la Recherche (ANR), will provide ample opportunity for the postdoc to develop his/her own original research ideas.

Candidate profile: A Phd in evolutionary biology, with a strong interest in population genomics. Experience with whole genome or transcriptome datasets would be appreciated.

Income and Starting Date: Net salary will be around 2500 euros net per months, depending on experience. Starting date in the spring 2014 is desired but is negotiable.

Application deadline: Send us a CV and a cover letter, and the names of two references by 28th February 2014 to the following addresses: joron@mnhn.fr and

llaurens@mnhn.fr

More information:

http://isyeb.mnhn.fr/joron http://isyeb.mnhn.fr/-violaine-llaurens http://isyeb.mnhn.fr/mathieu-joron

Violaine Llaurens (CR2 CNRS)

Museum National d'Histoire Naturelle Laboratoire ISyEB - UMR7205 Batiment d'entomologie - CP50 45, rue Buffon 75005 PARIS France

Phone : 00 33 (0)1 71 21 46 96 Fax : 00 33 (0)1 40 79 56 79

WebPage: http://isyeb.mnhn.fr/Violaine-LLAURENS violaine.llaurens@mnhn.fr

NewYorkBotanicalGarden SystematicBotany

A postdoctoral position in phylogenetics and evolution is available at The New York Botanical Garden for the PBI: Miconieae (Melastomataceae) project working in the department of Systematic Botany with the Garden's Associate Curator. This research will be producing an online monograph of all 1,800 species in this neotropical tribe, including complete descriptions, images, keys for their identification, and distribution maps for each species, while continuing to research phylogenetic relationships within the tribe. This project presents a unique opportunity for a highly motivated individual to carry out field work in the Neotropics, and to participate in the production of a large scale taxonomic monograph. Funding is available for 1 year, and may be extended upon mutual agreement. Applicants should have a Ph.D. at the start date, experience with taxonomic descriptions and nomenclature, as well as desire to be involved in all aspects of a multidisciplinary and international project on angiosperm systematics. Experience with interactive keys is desirable.

Applicants should apply through the NYBG website (http://www.nybg.org/employment/) and include a curriculum vitae, statement of research interests, up to three reprints if available, and the names and contact information for at least three references. Please refer to job SC-1715.

Applications will be reviewed, starting on March 1st, until the position is filled. Starting date is negotiable.

The New York Botanical Garden is an Equal Opportunity Employer.

Fabián A. Michelangeli (fabian@nybg.org)

fabian@nybg.org

Paris AdaptationGenomics

Postdoctoral position in the genomics of adaptation at the Natural History Museum in Paris

A two-year postdoc is available for an independent, creative and motivated post-doc to work on the genomics of adaptation and hybridization in mimetic butterflies. The postdoc will work with Violaine Llaurens and Mathieu Joron at the Institute of Systematics, Evolution and Biodiversity at the National Museum of Natural History in Paris (France).

Our group is interested in the ecological and genetic changes associated with adaptive wing color patterns in Heliconius butterflies. We are particularly interested in genomic architectures and the formation of a supergene controlling a spectacular wing pattern polymorphism associated with mimicry in the species Heliconius numata. This supergene is characterized by complex inversion polymorphism forming long haplotypic blocks, and a dominance hierarchy of alleles. This adaptive architecture appears to have evolved in response to selection for multiple mimicry forms, but how the variants corresponding to accurate mimetic phenotypes differentiate is still a puzzle. Processes such as ancestral polymorphism, large size mutations, or introgression may be involved, and some seem to be supported by our currently available resequence and transcriptome datasets. Our project aims at understanding the evolutionary origins and the functional basis of this genetic architecture in this lineage and how this relates to closely-related species. The postdoc will be in charge of developing population genomics approaches towards the dissection of the history of inversion polymorphism and recombination in H. numata and close allies, and transcriptomic/expression analyses to understand the functional basis of supergene expression.

Butterflies in the genus Heliconius have become a prominent group of insects for evolutionary genomics, with a rich evolutionary radiation, a reference genome, and vigorous collaboration between labs within the Heliconius consortium (www.heliconius.org). This project, funded by a grant from the Agence Nationale de la Recherche (ANR), will provide ample opportunity

for the postdoc to develop his/her own original research ideas.

Candidate profile: A Phd in evolutionary biology, with a strong interest in population genomics. Experience with whole genome or transcriptome datasets would be appreciated.

Income and Starting Date: Net salary will be around 2500 euros net per months, depending on experience. Starting date in the spring 2014 is desired but is negotiable.

Application deadline: Send us a CV and a cover letter, and the names of two references by 28th February 2014 to the following addresses: joron@mnhn.fr and llaurens@mnhn.fr

More information:

http://isyeb.mnhn.fr/joron http://isyeb.mnhn.fr/-violaine-llaurens http://isyeb.mnhn.fr/mathieu-joron

Violaine Llaurens (CR2 CNRS)

Museum National d'Histoire Naturelle Laboratoire ISyEB - UMR7205 Batiment d'entomologie - CP50 45, rue Buffon 75005 PARIS France

Phone : 00 33 (0)1 71 21 46 96 Fax : 00 33 (0)1 40 79 56 79

WebPage: http://isyeb.mnhn.fr/Violaine-LLAURENS

violaine.llaurens@mnhn.fr

Plant Evolution

PLANT FELLOWS - The International Post doc Fellowship Programme in Plant Sciences

Next deadline for applications: 31 March 2014 at 17.00.00, Zurich local time

PLANT FELLOWS is an international post doc fellowship programme in the field of plant sciences co-funded by the SEVENTH FRAMEWORK PROGRAMME (FP7) Marie Curie Actions People, Co-funding of Regional, National and International Programmes (COFUND) and is centrally managed at the Zurich-Basel Plant Science Center.

It is offering post-doc fellowships between 12 and 18 months at universities, research institutions and industry partners all over the world. The fellows of the programme can benefit from a postdoc training programme including transnational mobility, industrial placements, career events and courses dedicated to training in entre preneurship and complementary skills.

PLANT FELLOWS is open to all fields of research in plant sciences and to applicants of any nationality fulfilling the eligibility criteria as set out in the PLANT FELLOWS guide for applicants available online: www.plantfellows.ch Do not hesitate to contact the programme officer Mrs. Romy Kohlmann (info-at-plantfellows.ch) for any further questions.

To learn more about the programme activities, the application and selection procedures as well as the host organisations please visit: www.plantfellows.ch Romy Kohlmann, M.A. ' Programme Officer PLANT FELLOWS - Zurich-Basel Plant Science Center - ETH Zürich, LFW B 51 - Universitätstrasse 2 - 8092 Zürich phone: 0041 44 632 47 96 - fax: 044 632 18 26 (Monday-Thursday)

Kohlmann Romy <romy.kohlmann@usys.ethz.ch>

SaintLouisU EvolutionaryPhysiology

*THREE-YEAR POSTDOCTORAL POSITION IN **PHYSIOLOGICAL GENOMICS **OR* *COMPARATIVE** AND EVOLUTIONARY PHYSIOLOGY*

The laboratory of Comparative and Evolutionary Physiology in the Biology Department at Saint Louis University is seeking a postdoctoral fellow in the area of physiological genomics or vertebrate cardiorespiratory physiology. Our laboratory is funded by NSF and NIH. Qualified applicants should have a Ph.D., D.V.M, M.D., or equivalent, and be highly motivated with a publication record. The most competitive candidates will possess the basic skill set for studies in the physiological sciences, including the ability to carry-out animal surgeries and use basic molecular biology techniques. The main responsibility of the post-doctoral fellow will be to lead the laboratory's physiological genomics studies, as well as contribute to other ongoing projects in the laboratory. Additional experience using genomics analysis tools such as Trinity, TopHat, Cufflinks, Galaxy, and Partek is highly desirable, but not required. A willingness to learn such programs is a requirement, however.

A starting salary will be commensurate with experience and benefits are included. Start date is flexible, but preference is for May or June 2014.

Our research program is directed at understanding the physiological mechanisms underlying the extreme ability of adult painted turtles to survive complete oxygen deprivation (termed anoxia) for more than 5 months at 3C. Anoxia is a condition the turtles experience while overwintering in ice-covered ponds. This tolerance also extends to warmer temperatures, where they can survive more than 36 hours of anoxia at 20C. This turtle species is the most anoxia-tolerant tetrapod known.

The postdoctoral fellow will lead a project to examine the transcriptomic response of turtle heart in response to cold-acclimation and anoxia using RNA-seq. In addition, the fellow will participate in the laboratory's educational outreach initiatives involving the St. Louis Zoo.

Please email inquiries with a CV to Dr. Warren at the email address below.

Daniel E. Warren, Ph.D. Assistant Professor of Biology Saint Louis University Macelwane Hall 228 Cell Phone: 314.996.9830

Office Phone: 314.977.2043 Fax: 314.977.3658 Email: dwarren4@slu.edu https://sites.google.com/a/-slu.edu/warren-lab/ dwarren4@slu.edu

SciLifeLab Stockholm Bioinformatics

See https://ki.mynetworkglobal.com/en/what:job/-jobID:30300/where:4/ Note: Last application date:09.Jan.2014

Postdoctoral Scientist in Bioinformatics The position is within an interdisciplinary team in the project "DIfferential Response by INtra Tumour Heterogeneity (DIRINTH)" headed by Thomas Helleday, Joakim Lundeberg, and Erik Sonnhammer at Science for Life Laboratory in Stockholm, Sweden. This project recently received funding for five years from AstraZeneca, and aims at mapping gene expression differences within solid tumors at the single cell level.

The project will generate a gene expression profile for each cell in a matrix of a tissue section, where the matrix contains up to 135000 cells. Analysis of this data needs to be automated, and a bioinformatics groups is being established to build infrastructure to store and analyse the data. This position is mostly focussed on analysing the expression profiles to identify activated and deactivated pathways in a given cell type. To this end, novel statistical methods will be used, such as Network Crosstalk Enrichment Analysis (NCEA), in combination with traditional gene enrichment analysis (GEA). These will be combined with network module clustering using the MGclus method.

Specific aims:

Develop a pathway annotation pipeline for gene expression data based on NCEA, GEA, and MGclus.

Integrate the pathway annotation pipeline into the workflow of ST analysis.

Apply the pathway annotation pipeline to ST data, to be able to functionally characterize activated and deactivated pathways in different cell types.

Build a knowledge database for storing and mining ST data, pathway annotations, and external annotations, using standardized interfaces to analysis algorithms and methods.

*Entry requirements *

The successful candidate should have a Ph.D. in bioinformatics or related field, and detailed knowledge of molecular biology. Familiarity with high throughput data analysis techniques is essential, as well as a high level of motivation. Computer programming skills and knowledge of biological database systems are important merits.

A person is eligible for a position as postdoctoral research fellow if he or she has obtained a PhD no more than seven years before the last date of employment as postdoc.

*Application process *An employment application must contain the following documents in English or Swedish:

1. A complete curriculum vitae, including date of the thesis defence, title of the thesis, previous academic positions, academic title, current position, academic distinctions, and committee work 2. A complete list of publications 3. A summary of current work (no more than one page) 4. Verifications for crediting of illness, military service, work for labour unions or student organisations, parental leave or similar circumstances 5. Verification from the thesis defence committee or the equivalent (only if the thesis defence is scheduled within three months after the application deadline)

The application is to be submitted on the NetRecruiter system, see See https://ki.mynetworkglobal.com/en/-what:job/jobID:30300/where:4/ Erik Sonnhammer <erik.sonnhammer@scilifelab.se>

Senegal Montpellier RodentEvolution

*Post-doctoral fellowship - Parasitism, invasion success and immunoecology : Comparative and experimental analyses on the invasive house mouse and native rodents in Senegal (Centre de Biologie pour la Gestion des Populations). *

*Start: *April 2014

*Places: *Senegal (Mbour, Dakar) / France (Montpellier)

Context and research project

The Center of Biology for Population Management (CBGP) offers a 18 month position to work on an ANR-funded project examining the role of parasites (or their absence) and immune trade-offs in the establishment and proliferation of murine invasive species.

The aim of this post-doctoral position is to develop experimental researches to evaluate the role of parasites and immune pathways in the success of the house mouse /Mus musculus domesticus /bioinvasion in Senegal. This work involves experimental infestations and immune challenges that will be performed on the house mouse and on native rodents (/Mastomys erythroleucus/) that share similar habitats.

A preliminary study has emphasized parasites that could play a role in the success of the mouse bioinvasion : a helminth with direct cycle (/Aspiculuris/ sp.) and potentially murine malaria (/Plasmodium/ sp.), which are both non pathogenic for humans and easy to breed in the lab (eg : Gaherwal et al. 2012; Long et al. 2008). A first objective is to evaluate the effects of these parasites on rodent fitness through experimental infestations (cf. Graham /et al. /2011). Fecundity and immune trade-offs could be investigated. Other experimentations using infestations could also be performed to disentangle the effects of parasitism vs immunopathologies on fitness decrease (e.g. Long et al. 2008 ; Belloni et al. 2010).

A second objective is to compare immunocompetence of house mice living on invasion fronts vs in anciently colonised areas. A preliminary work has shown than humoral responses were higher in populations from the invasion front, probably at the expense of inflammatory responses (Lee & Klasing 2004). The applicant will test experimentally this result using immune challenges. Experiments will be performed in the breeding lab located in Mbour (Senegal). The applicant will work with local ingeneer, technician and students. Immunological assays will be realised either in Dakar (Elisa tests) or in Montpellier (multiplex immunoassays).

Competence required and Procedure

Ideal candidates would have one or more of the following areas of expertise

PhD in immunoecology and post-doctoral experience

Experimental work on rodents; infestations if possible using helminths or /Plasmodium/

Ability to work in a developing country

Ability to work independently as well as in a team (management of technicians and students)

Interested applicants should send their applications to Nathalie Charbonnel (nathalie.charbonnel@supagro.inra.fr) and Carine Brouat (carine.brouat@ird.fr)

Applications should include: a CV; a research statement explaining the candidate's previous research experience and research interests, and contact information of two or more references.

*Closing date: 31 January 2014***

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*Literature***

Belloni V., Faivre B., Guerreiro R., Arnoux E., Bellenger J., Sorci G. 2010. Suppressing an Anti-Inflammatory Cytokine Reveals a Strong Age-Dependent Survival Cost in Mice. Plos One

Colautti R.I., Ricciardi A., Grigorovich I.A. and MacIsaac H.J. 2004. Is invasion success explained by the enemy release hypothesis? /Ecology letters/ 7: 721-733.

Gaherwal S., Solanki S. < http://apps.webofknowledge.com/-OneClickSearch.do?product=UA&search_mode=-OneClickSearch&excludeEventConfig=-ExcludeIfFromFullRecPage&colName=-WOS&SID=X2gQX13rA9b4Pad8QaM&field=-AU&value=Solanki,%20S >, Prakash M.M. < http://apps.webofknowledge.com/-OneClickSearch.do?product=UA&search_mode=-OneClickSearch&excludeEventConfig=-ExcludeIfFromFullRecPage&colName=-WOS&SID=X2gQX13rA9b4Pad8QaM&field=-AU&value=Prakash,%20MM >, Wast N. < http://apps.webofknowledge.com/-

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SmithsonianInst SexualSelection

Postdoctoral Fellowship Opportunity at the Natural Museum of Natural History

The Natural Museum of Natural History, Smithsonian Institution, is pleased to announce a postdoctoral fellowship to work on a project in collaboration with Dr. Gene Hunt in the Department of Paleobiology. This project, entitled Does Sexual Selection Promote Speciation and Extinction? A Test Using the Fossil Record of Ostracodes, combines morphometric measurement of sexual dimorphism in fossil ostracodes with analysis of stratigraphic ranges of taxa to test if sexual selection modulates speciation and extinction rates in these taxa. Duties will involve morphometric data collection and analysis, fieldwork in the US Coastal Plain, analysis of stratigraphic ranges, and coordination of research efforts with external collaborators.

The initial appointment is for 12 months. Further support is possible, depending on the outcome of additional fund-raising. Applicants must have attained a Ph.D. and be able to start the position by August 2014. Stipend will be $45,000 plus a $4,000 allowance for health insurance.

Ideal candidates would have one or more of the following areas of expertise: good quantitative skills, background in micro- and macroevolution, experience with microfossils (especially ostracodes) and field paleontology. Above all, however, we are looking for a bright and productive scholar who is interested in the project. We welcome applications from candidates with backgrounds in paleontology, evolutionary biology, or related fields.

Review of applications will begin February 3, 2014 and will continue until the position is filled. Interested applicants, who may be of any nationality, should send a cover letter with a brief statement of research interests, a curriculum vitae, and contact information for three references. Materials should be sent via email to Gene Hunt (hunte@si.edu), who is also the contact for additional information.

The Smithsonian Institution is an Equal Opportunity Employer.

jpswad@wm.edu

SouthAfrica MouseAdaption

Postdoc-Position:

Reducing Daily Energy Expenditure as an Adaptive Responses to Droughts:

Physiology and Behavior

(University of the Witwatersrand, South Arica; Succulent Karoo Research Station; CNRS Strasbourg, France)

A 24 month postdoc position is available in the fields of Eco-Physiology and Behavioral Ecology in the Striped Mouse Research Group www.stripedmouse.com of Neville Pillay http://www.wits.ac.za/academic/-science/apes/staff/academicstaff/pillay/7019/ and Carsten Schradin http://www.iphc.cnrs.fr/-Carsten-Schradin-.html. The postdoc will be employed by the University of the Witwatersrand, collect data in the field at the Succulent Karoo Research Station, and do lab work at the Institut Pluridisciplinaire Hubert Curien, Département d'Ecologie Physiologie et Ethologie (DEPE), France's largest eco-physiology lab with one the world's best isotope laboratories lead by Stephane Blanc http://www.iphc.cnrs.fr/-Stephane-Blanc-.html.

Research topic. Biologists study how species survive and reproduce in a changing world. The postdoc will study behavioral and physiological adaptation to droughts, one consequence of global warming, asking whether and how individuals can decrease their energy expenditure during periods with low food availability. Energy availability restricts survival and reproduction and often changes seasonally, such that animals have to adjust their energy expenditure. Measuring changes in resting metabolic rate (RMR) can help us to understand the extent to which animals can reduce their basal metabolism during periods of food shortage. Behavioral changes, especially reduced activity, might re-

duce energy expenditure to a larger extent than a reduction in RMR can, and both processes might co-occur. Thus, to answer the question how animals can cope with reduced energy availability it is crucial to understand whether they can reduce daily energy expenditure (DEE) and to measure changes in both behavior and in RMR to understand the underlying mechanisms.

The postdoc will study striped mice (Rhabdomys pumilio) in South Africa during their annual dry season. The field site is well established, and the population has been permanently monitored by a team at the research station for over a decade. All field techniques have been used successfully previously but not in combination. The postdoc will measure RMR using respirometry, and he / she will do behavioral observations to determine activity budgets. Blood samples will be collected and analyzed in Strasbourg to determine DEE, water turnover, and body composition using the doubly-labeled water method.

Objectives

1. Compare RMR between moist and dry seasons.

2. Compare activity budgets between moist and dry season.

3. Compare DEE between moist and dry season.

4. By comparing results obtained from 3. with 1. and 2. we will be able to estimate the level of energy savings due to reduction in RMR and reduction in activity.

5. We can also calculate the water turnover and thus water savings due to reduced energy expenditure, which will be crucial to survive drought periods characterized by water limitation.

6. We will determine body composition (fat content) during different seasons.

Salary: This position is funded by the University of the Witwatersrand with a very competitive salary of R154 000/ year, which allows for a comfortable standard of living in South Africa. In addition, medical aid is paid by the University as well as relocation costs of R10 000.

Starting date: May 2014.

Profile and requirements for the candidate:

- Must have ontained the PhD within the last 5 years (2009 or later)

- You can produce outstanding academic results!

- Strong background in eco-physiology and/or behavioral ecology.

- Very good writing skills proven by a good publication record.

- Enthusiastic about field work with the willingness to spend 6-9 months /year in the field.

- Good personal skills and working with an established research team.

- Good technical skills.

- Strong experimental, analytical and statistical skills.

- Good organizational skills and the ability to work independently.

Applicants should send a cover letter detailing their motivation and expectations from this position, and a CV (combined into a single PDF), as well as contact information for two or more referees to Neville Pillay (Neville.Pillay@wits.ac.za) and Carsten Schradin (carsten.schradin@iphc.cnrs.fr).

Deadline: For full consideration, send your application until the 16th

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SwanseaU EvolutionPathogenResistance

PhD position available at Swansea University

Genetic basis of pathogen resistance in farm and wild fish populations under inbreeding

Supervisors: Dr Sonia Consuegra (Swansea University; College of Science); Dr. Jo Cable (Cardiff University) & Dr Marianne Pearson (FishVet Scotland)

Contact email: s.consuegra@swansea.ac.uk

Application deadline: 15 February 2014

Project summary

The Department of Biosciences at Swansea Universaity is offering one 4-year Industrial CASE studentship funded by NERC. This is a collaborative, multidisciplinary project combining evolutionary biology (Dr. Consuegra, Swansea University) and parasitology (Dr Cable, Cardiff University) with the more applied field of aquaculture (Dr. Pearson, FishVet).

The project will investigate the relative role of immunogenetic versus genome-wide diversity in pathogen resis-

tance in wild and farmed inbred/bottlenecked fish populations. The work will focus on the immune-related MHC genes and use two model species: the unique self-fertilising mangrove killifish (Kryptolebias marmoratus) and Atlantic salmon (Salmo salar).

The mangrove killifish is a self-fertilising (selfing) species. Its populations are mostly composed by selfing hermaphrodites with extremely low genetic diversity but the offspring of crosses with males have higher MHC diversity and carry lower parasite loads that their inbred counterparts. Atlantic salmon is the main salmonid cultured in the world and its MHC has been widely studied. Salmon express single unlinked MHC genes and balancing selection maintains their high levels diversity. Associations between MHC genes and resistance/susceptibility to major salmonid diseases have been found in farmed populations. In addition, salmon offspring of MHC dissimilar parents display higher resistance to parasites.

The student will analyse experimental infections at the aquarium facility at Cardiff University (Saprolegnia in killifish) and infection outbreaks in a farm setting in collaboration with the CASE partner and comparing resistance of families with different degrees of genome-wide genetic diversity and MHC class diversity. The project will take advantage of the wide knowledge of the A. salmon genome (including a recently developed SNP chip and QTLs identified for IPN) and of the NGS techniques developed by the main supervisor for MHC genotyping. It will provide the student a unique combination of training in the industrial environment (aquaculture and veterinary), molecular and experimental laboratory analyses at Swansea and Cardiff Universities as well as field experience to collect samples from wild fish populations.

We seek a highly motivated student with a first class or upper second class degree in a relevant biological discipline willing to work within both a university environment and an industrial company. Good level of statistics (ideally with knowledge of R), some experience in molecular biology/genetics and/or willingness to carry out field work in remote locations would be desirable.

Informal enquiries before the deadline for formal applications are welcome by submitting a CV and covering letter outlining suitability for the position to Sonia Consuegra at s.consuegra@swansea.ac.uk.

This NERC Industrial CASE studentship is funded for 48 months, providing a maintenance stipend for 4 years (£13,863 for 2014/2015) plus an additional £1,000 from the CASE partner per year. The studentship also covers full fees at the UK/EU rate and additional research expenses required for the project. Applicants must meet the UK Research Council eligibility criteria, including the 3-year residency requirements in the UK. For details of eligibility requirements please see http://www.nerc.ac.uk/funding/available/-postgrad/eligibility.asp Deadline for applications is the 15th of February. For details on how to apply go to: http://www.swansea.ac.uk/biosci/-postgraduate/phdopportunitiesandresearchtopics/-geneticbasisofpathogenresistanceinfarmandwildfishpopulationsunderin

Sonia Consuegra

Dept Biosciences College of Science Swansea University Singleton Park SA2 8PP Swansea

Tel. +44 (0) 1792 602931 Email. S.Consuegra@swansea.ac.uk

http://www.swansea.ac.uk/staff/science/biosciences/-s.consuegra https://www.researchgate.net/profile/-Sofia_Consuegra

"CONSUEGRA S." <S.Consuegra@swansea.ac.uk>

Sydney MolcularEvolEucalypts

POSTDOCTORAL POSITION: MOLECULAR AND CHEMICAL ECOLOGY OF EUCALYPTUS MOLUCCANA

One postdoctoral position is available at the Hawkesbury Institute for the Environment at the University of Western Sydney, Australia.

The Hawkesbury Institute for the Environment conducts research in a range of areas that include plant and animal biology, ecology and evolution; pant-animal and plant-soil interactions; soil microbial ecology; genomics and bioinformatics; ecosystem function and climate change biology.

The Hawkesbury Institute for the Environment (HIE) is seeking to appoint an energetic and highly motivated postdoctoral researcher with a demonstrated ability to conduct outstanding research on the molecular and/or chemical ecology of plants. The postdoctoral researcher will be appointed to an academic level A position in the HIE. This full-time position is available for 2 years with the possibility of an extension thereafter, pending funding availability. The successful applicant will focus on research related to a research project entitled ^{3}Psyllid-induced dieback of Grey Box (Eucalyptus moluccana) on the Cumberland Plain^{2}. The project addresses the

important question of whether the extensive fragmentation and reduction of the Cumberland Plain Woodlands in Western Sydney has resulted in a loss of genetic and chemical diversity of the dominating tree species, Eucalyptus moluccana. Discovering this genetic and chemical diversity within and beyond the affected region is crucial to understanding their role in the chronic area-wide defoliation of Eucalyptus moluccana by psyllids (plant-sap feeding insects) in the critically endangered Cumberland Plain Woodlands. The results will inform future conservation efforts and strategies and also deliver fundamental findings relevant to eucalypt diversity and insect-plant interactions.

The successful applicant will work with a team of scientists in the HIE within the Research Theme Plants, Animals and Interactions. The applicants should have skills and research experience in the broad area of molecular and/or chemical ecology of plants. More specifically, the successful candidate will require experience and knowledge in the fields of population genetic and genomic analyses and/or analysis of plant chemistry relevant to insect attack. Research will be field and laboratory based. The Hawkesbury Institute for the Environment has state of the art laboratory facilities for this type of research, as well as fantastic field research facilities. It is based on the Hawkesbury campus of UWS, located in Richmond, 60 km from central Sydney, in the close vicinity to the spectacular Blue Mountains and Wollemi National Parks.

Remuneration Package: Academic Level A $91,289 AUD to $96,851 AUD p.a (comprising Salary $77,140 AUD to $81,840 AUD p.a. plus 17% Superannuation and Leave Loading)

Closing Date: 16 February 2014

How to Apply: Go to the web site http://-uws.nga.net.au/cp/ scroll to the job reference 008/14. Click on the reference number and follow the instructions at the bottom of the page on 'How To Apply'.

Further information about the Hawkesbury Institute for the Environment can be found on www.uws.edu.au/hawkesburyinstitute; more information about the position can be obtained from Dr Markus Riegler m.riegler@uws.edu.au.

Dr Markus Riegler Senior Lecturer | Higher Degree Research Director Hawkesbury Institute for the Environment University of Western Sydney Locked Bag 1797, Penrith NSW 2751, Australia phone: +61-2-4570 1229 | email: m.riegler@uws.edu.au web: http://www.uws.edu.au/hie/markusriegler M.Riegler@uws.edu.au

UAB Barcelona GenomeEvolution

Postdoctoral offer in Comparative Genomics

I am looking for a highly motivated candidate that can apply for a postdoctoral fellowship within the programme "Postdoctoral Junior Grants 2014" opened by the Spanish national program (MINECO, Ministerio de Economía y Competitividad), opening February 2014. For more information see:

http://www.idi.mineco.gob.es/portal/site/MICINN/-menuitem.791459a43fdf738d70fd325001432ea0/-?vgnextoid=fc053d664fff2410VgnVCM1000001d04140aRCRD&vgnext11f35656ecfee310VgnVCM1000001d04140aRCRD&vgnextfmt=formato2&id3=a9053d664fff2410VgnVCM1000001d04140a____

The aim of the project is to study the genomic structure of evolutionary genomic regions in different mammalian species. Interest in evolutionary biology, molecular biology and cell biology is required. Applicants should have a PhD in a relevant area (evolutionary biology, genomics, genetics and cell biology). I am seeking for someone with a vivid interest in evolution research and a strong background in population genetics/ statistical genetics.

Requirements:

- PhD degree obtained after September 2009.

- Competitve publication record.

- Skills in bioinformatics and/or programming.

What we offer:

- Two years contract.

- The total annual amount stipend will be EUR25,000 gross.

Our group works in the fields of comparative genomics, evolution and chromosomal instability and, in particular, we are interested in the mechanisms that are driving genome evolution and architecture in mammals. For further information please see our webpage (http://-grupsderecerca.uab.cat/evolgenom/).

The Universitat Autònoma de Barcelona (UAB) is located close to the city of Barcelona and is one of the major public universities in Spain. The UAB is internationally acknowledged for its quality and innovation in research. It coordinates a potent scientific and technological centre, which comprises all the departments, science and technology services, research centres, insti-

tutes and university hospitals affiliated with the UAB.

Complete application packages, including a CV, a brief (1-page) statement of research interests, and the names and e-mail addresses of two referees should be sent to Dr. Aurora Ruiz-Herrera (auroraruizherrera@uab.cat)

Application deadline: 10 February 2014.

"Ruiz-Herrera, A" <aurora.ruizherrera@uab.cat>

UCaliforniaIrvine EvolutionaryGenetics

The Emerson lab at UC Irvine (emersonlab.org) is soliciting candidates for one or more postdoctoral positions. For additional information see: http://-emersonlab.org/jobs Positions will fall into at least one of two broad categories:

1) Evolutionary genomics in Drosophila species (with opportunities for both bioinformatics and experimental foci); 2) Simulation and modeling of phenotypic models of adaptive evolution (with opportunities for simulation, statistical model development, and theory).

Current projects in the Emerson lab include evolutionary genomics of Drosophila, theoretical models of phenotypic adaptation, and analysis of experimental evolution data. Candidates will ideally have interests broadly relevant to these themes but will also be offered opportunities to pursue their own interests in evolutionary genetics. The successful candidate will also have a PhD in the following or related fields: evolutionary genetics, bioinformatics, computational biology, statistics, or experimental genomics (especially high throughput sequencing).

The Emerson lab is affiliated with the department of Ecology & Evolutionary Biology, the Center for Complex Systems Biology, and the Center for Evolutionary Genetics at UCI as well as the Southern California Evolutionary Genetics Meeting.

Interested applicants should send their applications to J.J. Emerson here: http://emersonlab.org/contact Applications should include: a CV; a research statement explaining the candidate's previous research experience and future research objectives; and contact information of two or more references.

For more about jobs in the Emerson lab and academic and professional environment at UCI, visit: http://-emersonlab.org/jobs J.J. Emerson Assistant Professor Department of Ecology & Evolutionary Biology Center for Complex Biological Systems University of California Irvine http://emersonlab.org Contact information: http://emersonlab.org/contact jj.emerson@gmail.com

UCalifornia Davis Plant Reproductive Barriers

POSTDOCTORAL POSITION TO STUDY INTERSPECIFIC REPRODUCTIVE BARRIERS IN TOMATO

A postdoctoral position is available to work on tomato genetics and reproductive biology at the C.M. Rick Tomato Genetics Resource Center, Dept. of Plant Sciences, UC Davis.

The goal of the project is to study evolutionary aspects of interspecific reproductive barriers in plants. The postdoctoral scholar will identify and analyze functional diversity for pollen-expressed genes involved in interspecific and self-incompatibility.

Candidates should have a strong background in phylogenetic and genetic analysis, molecular biology, and plant reproductive biology. Prior experience with the tomato species or other Solanaceae would be a plus. The position is available for up to 3 years, starting in January 2014.

Applicants should send a CV, contact information for three references, and a cover letter to Roger Chetelat, trchetelat@ucdavis.edu.

Relevant publications:

Li, W and RT Chetelat (2013) The role of a pollen-expressed Cullin1 protein in gametophytic self-incompatibility in Solanum. Genetics. doi: 10.1534/genetics.113.158279

Li, W, and RT Chetelat (2010) A pollen factor linking Inter- and Intraspecific Pollen Rejection in Tomato. Science 330: 1827-1830.

Li, W, S Royer, and RT Chetelat (2010) Fine mapping of ui6.1, a gametophytic factor controlling pollen-side unilateral incompatibility in interspecific Solanum hybrids. Genetics 185: 1069-1080.

Bedinger, PA, R Chetelat, B McClure, LC Moyle, JKC Rose, S Stack, E van der Knaap, Y Baek, G Lopez Casado, PA Covey, A Kumar, W Li, R Nunez, F Cruz-Garcia, and S Royer (2011) Interspecific reproductive

barriers in the tomato clade: opportunities to decipher mechanisms of reproductive isolation. Sex. Plant Reprod. 24:171-187.

For more information: http://tgrc.ucdavis.edu=-0Ahttp://biosci3.ucdavis.edu/FacultyAndResearch/-FacultyProfile.aspx?FacultyID=14082 trchetelat@ucdavis.edu

UCalifornia SantaCruz Paleogenomics

POSTDOCTORAL SCHOLAR POSITION IN PALEOGENOMICS

The Paleogenomics Lab at the University of California Santa Cruz seeks a postdoctoral scholar to participate in an international collaboration whose goal is to improve the efficiency of DNA isolation and genomic library preparation protocols that are used when working with ancient and historic remains. The Postdoctoral Scholar will use these new techniques to develop a research project within one of the major research themes of the laboratory, for example how environmental change and/or inter-species hybridization affects the distribution of genomic diversity within a population or species. Full details of the position can be found on our website: http://pgl.soe.ucsc.edu/ The Paleogenomics lab uses genomic data isolated from the preserved remains of plants and animals that lived during the last ~1 million years to better understand how genetic diversity is generated and maintained within populations through time. The Lab is jointly run by Professors Beth Shapiro and Ed Green and combines experimental and computational approaches to address a variety of paleogenomics topics.

The successful candidate will work cooperatively with a team of scientists including molecular biologists, geologist, paleontologists and biostatisticians to: (1) Refine laboratory protocols for the extraction, amplification, and characterization of ancient DNA; (2) Develop new protocols to enrich ancient samples for genomic targets of interest, for example specific loci or complete genomes; (3) Develop a focal project that will add to the growing body of data describing global changes in biodiversity within the last 100,000 years.

Minimum and preferred qualifications, term of employment, and salary details are available from the website listed above.

Please send a CV, Statement of Interest, and contact information for three references to Beth Shapiro at bashapir@ucsc.edu. Consideration of applications will begin 20 Feb 2014, and will continue until the position is filled.

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The University of California, Santa Cruz is an Affirmative Action/Equal Employment Opportunity Employer, committed to excellence through diversity. We strive to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. Inquiries regarding the University's equal employment opportunity policies may be directed to: Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064; (831) 459-2686. If you need accommodation due to a disability, please contact the Academic Personnel Office at apo@ucsc.edu (831) 459-4300.

beth.shapiro@gmail.com

UEastAnglia DrosophilaFitness

Post-Doc position: The Drosophila Transferome

Dear Colleagues,

I have a 3 year post doc position open, to start right away:

http://www.jobs.ac.uk/job/AHY487/post-doctoral-research-associate/ It is a BBSRC-funded project to understand how the reproductive transferome (i.e. the set of ejaculate molecules transferred during mating) is regulated in order to maximize fitness.

The aims are to use Drosophila melanogaster to test the effect of manipulating regulatory mechanisms (transcription factors, microRNAs, small interferingRNAs, regulatory 'hubs') on (i) the expression of the transferome, (ii) its phenoptype and (iii) the ability of individuals to respond adaptively to the socio-sexual environment.

It's based at UEA, Norwich UK, with project partners Amanda Bretman (Leeds) and Mariana Wolfner (Cornell).

Any questions or further information please see the documents available under the above link, or email me: tracey.chapman@uea.ac.uk

Prof Tracey Chapman School of Biological Sciences

University of East Anglia Norwich Research Park Norwich, Norfolk NR4 7TJ UK

Phone: + 44 (0)1603 593210 FAX: +44 (0)1603 592250 Web: http://www.uea.ac.uk/bio/People/-Academic/Tracey+Chapman "Tracey Chapman (BIO)" <Tracey.Chapman@uea.ac.uk>

UEdinburgh EvolutionaryGenetics

Postdoctoral research position in Chlamydomonas evolutionary genetics at the University of Edinburgh.

We are seeking a postdoctoral researcher to join our team investigating the impacts of spontaneous mutation on fitness in the model alga, Chlamydomonas reinhardtii. Our BBSRC-funded project aims to understand the link between genotype and phenotype, specifically how random changes in the genome affect gene expression, protein structure, gene interactions and ultimately fitness. This research capitalises on over 100 fully sequenced mutation accumulation lines of C. reinhardtii. You will execute lab-based research, including using recombinant mutation accumulation lines of C. reinhardtii to map the fitness effects of individual mutations. In addition, you will be responsible for gathering expression data for mutated lines.

You should have or will shortly obtain a PhD or equivalent in a relevant subject, as well as a proven ability to work with and maintain experimental populations and experience of applying statistical analysis to biological data.

Within the aims of the project there will be opportunity to develop your own ideas relating to the impacts of mutation on fitness. The grant includes generous funding to attend international conferences. The position is for 3 years from 01/05/14. Salary is in the range of £30,728 to £36,661. For informal enquiries please contact N.colegrave@ed.ac.uk or peter.keightley@ed.ac.uk. For further details and to apply, please use the link below

https://www.vacancies.ed.ac.uk/pls/corehrrecruit/-erq_jobspec_version_4.jobspec?p_id=024549 peter.keightley@ed.ac.uk

UFlorida PolyploidGenomics

A postdoctoral research associate position is available in the lab of Dr. Emily Sessa in the Department of Biology at the University of Florida.

The goal of the project is to use genomic datasets to explore reticulate evolution in ferns, and the effects of hybridization and polyploidy on genome structure, gene expression, phylogenetic relationships, and species concepts.

Duties and Responsibilities: - Carry out field work and collect plant material for analysis. - Generate, manage, and analyze genomic datasets using NGS technologies. - Prepare manuscripts for preparation in peer-reviewed journals, write grant proposals, and present results at national meetings. - Provide supervision and mentoring for undergraduate research assistants and graduate students. - Prepare and carry out outreach activities in collaboration with students.

Preferred start date is between July 1, 2014 and September 1, 2014.

This is an annual appointment and it is renewable annually based on satisfactory performance, needs of the Department and College, and available funding for up to 2.5 years.

Minimum requirements. Candidate must have: a Ph.D. (at date of appointment) in botany, plant biology, ecology and evolutionary biology, or related field; proficiency in oral and written English; experience with acquisition and analysis of genomic data; experience in bioinformatics software and analysis; and demonstrated experience in preparing publications, proposals, and presentations. Background or interest in polyploidy, hybridization, or reticulate evolution preferred.

Review of applications will commence February 15, 2014, and applications are due by March 1. Please apply online at https://jobs.ufl.edu/postings/47982 Applicants should attach: - CV - Cover letter/research statement (one page) - One representative publication (can be draft of thesis chapter) - Two letters of recommendation

Contact Emily Sessa at emilysessa@ufl.edu with questions.

"Sessa, Emily" <emilysessa@ufl.edu>

UGothenburg MarineGenomicsBioinformatics

Post-doctoral position in Marine Genomics/Bioinformatics

at the Department of Chemistry and Molecular Biology and the Centre for Marine Evolutionary Biology (CeMEB).

The application must be received no later than 4th of February 2014

The department

Research and graduate education at the Department of Chemistry and Molecular biology comprise a wide scientific field from the atomic and molecular levels all the way through cells to intact organisms. Much of the phenomena studied here impact on our natural environment and living systems. We participate in undergraduate programs in chemistry, molecular biology, medicinal chemistry, biology, marine sciences, pharmacy, genomics, bioinformatics and systems biology. For more information about the department see: www.cmb.gu.se/english . The research group

The research group where this post- doc position is placed is engaged in various marine projects with emphasis on functional genomics of osmoregulation and signalling in unicellular eukaryotes like the yeastsSaccharomyces cerevisiae and the marine yeast Debaryomyces hansenii, the diatom Skeletonema marinoi, and the barnacle Balanus improvisus. In this barnacle cloning and functional characterization of genes encoding octopamine receptors, pheromones, aquaporins and Na/K- ATPases have been conducted. The group is also in charge of genome sequencing projects of eight marine organisms. This is part of an activity within CEMEB that is called IMAGO that aims at building an infrastructure based on novel marine model organisms that are well adapted to explore essential questions in ecology and evolution. For more information about the involved research group see the home page of Anders Blomberg: www.cmb.gu.se/english/staff/-blomberg-anders The centre for marine evolutionary biology - CeMEB

The post-doc employed will be part of highly active research consortium at the University of Gothenburg (CeMEB). The Linnaeus Centre for Marine Evolutionary Biology, CeMEB, brings together a broad expertise in biology. The main focus is on evolutionary processes and mechanisms in marine species and populations. The goal is to increase our understanding of how marine organisms adapt to new environmental conditions, for example changing seawater pH, temperature and salinity. CeMEB started in July 2008, when the consortium was selected for a ten year Linnaeus grant that was awarded by the Swedish Research Councils. For more information about CeMEB: www.cemeb.science.gu.se Job assignments

The project is part of the CeMEB ambitions to establish eight marine organisms as potent marine genetic model system as part of the Infrastructure for Marine Model Organisms (IMAGO; www.cemeb.science.gu.se/research/imago-marine-genome-projects). An essential step in this process is to finalize the genome sequence of these eight organisms. We currently have in the order of one tera-base of sequence information in total, mainly based on next generation sequencing platform Illumina, providing a rich source of sequence information based on short reads. We are currently in the process of complementing this source by alternative NGS technologies, e.g. PacBio, and other means to improve the assembly process. In several of the genome projects various novel approaches for genome assembly are currently being tested and optimised, and for some genomes we are now approaching a phase of finalizing and publishing. This two-years post-doc position (with an option of one additional year) aims at supporting annotation and publication, both in scientific journals as well as in local and central databases, of these marine genomes. The work will also include analysis of RAD-sequencing and RNA-seq data. One important aspect of the position is to work closely with the responsible researchers for the various organisms in order to explore the genome sequences for interesting and novel genes and features.

Qualifications/eligibility

We are looking for a highly motivated person with a doctoral degree in bioinformatics or in another relevant area where the research has been focused on sequenced-based analysis. Earlier experience of working with large amounts of NGS sequence data is a necessary requirement.

Criteria/assessment

The qualified candidate shall have experience with the major techniques in Bioinformatics. In addition, you must have used Linux/Unix systems as well as programming in script-based language, such as Perl and/or Python. It is furthermore a merit if you have used or created databases for handling and analyses of sequence

data, or if you have earlier experience of analysis of data on population genomics. Understanding of biological evolution and evolutionary processes, extracted from sequence

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UHaifa EcologicalGenomics

Postdoctoral Position on local adaptation, phenotypic plasticity, and gene expression

We invite candidates to apply for a postdoctoral fellowship on local adaptation, phenotypic plasticity and gene expression on two closely related species of fire salamanders -Salamandra infraimmaculata in Israel and Salamandra salamandra in Germany (see abstract below). This is a joint project funded by DIP (German-Israeli Project) in collaboration with Leon Blaustein (University of Haifa, Israel), Alan R. Templeton (University of Haifa, Israel), Sebastian Steinfartz (University of Bielefeld), and Arne Nolte (Max Plank Institute, Plon). The successful candidate will be responsible largely for designing and conducting the ecological experiments and aiding in the analysis of gene expression patterns. Although most of the work is to conduct research in Israel, the opportunity exists to spend 1-2 months per year in Germany to conduct ecological field experiments and lab work on gene expression. The position begins as soon as possible. Interested candidates should send a letter explaining research interests and how their background fits to this study, their cv and arrange 2-3 letters of recommendation to leon@research.haifa.ac.il and to temple_a@wustl.edu.

Ecological genomics: Analysis of gene expression underlying parallel habitat adaptation in distinct salamander species

Abstract

In a continuously changing world, adaptation to new or altering environmental conditions is one of the most elementary and important biological processes. Although we have much data on the consequences of habitat adaptation at the phenotypic and population structure levels, we are currently missing, with a few exceptions, deeper insights into the genetic architecture of habitat-dependent adaptation. The study of parallel adaptive evolution can illuminate underlying processes and mechanisms. Unlike any other vertebrate group, amphibian species can show a fascinating breadth of habitat-specific adaptations to aquatic and terrestrial habitats. The research teams of this proposal have studied parallel ecological adaptation to larval reproductive habitats in two distinct species of fire salamanders - Salamandra salamandra in Germany and Salamandra infraimmaculata in Israel. By integrating a strong ecological context with genomic approaches, this research proposal aims at extending the ecological-genetic framework of parallel habitat adaptation to the level of the transcriptome in order to simultaneously screen a large number of genes for patterns of evolutionary divergence. We will design species-specific oligonucleotide microarrays based on EST sequences of the larval transcriptomes for each species. These microarrays can then be used to analyze gene expression patterns under fully natural conditions and in experimental setups, whereby analyses are inspired by field studies that analyze the ecology of salamander larvae. As salamander larvae are accessible in large numbers and can be easily manipulated in common environment experiments, this study system is suited to explore gene-expression responses to habitat-specific cues or selection pressures in dedicated experiments reflecting distinct larval habitat types and ecological parameters. The resulting data will reveal whether plastic phenotypes contribute to adaptive phenotypic change and whether they are enhanced by the emergence of genetically fixed traits. In addition to traditional computational methods, we shall use a newly developed individual-centered approach, using a new vector-correlation measure to identify genes that are co-expressed in individuals as opposed to differential expression of genes across populations.

Leon Blaustein

Director, Kadas Green Roofs Ecology Center Head, Community Ecology Laboratory Institute of Evolution and Department of Evolutionary & Environmental Biology Faculty of Natural Sciences, University of Haifa 199 Abba Hushi Rd, Haifa, 3498838, Israel Tel. 972-4-8240736 (office); 972-4-9998881 (home) Cell: 054-268-8290; Institute Fax: 972-4-8246554 http://leonblaustein.wikidot.com http://evolution.haifa.ac.il/index.php/research/-research-centers/kadas-green-roofs-ecology Alan R. Templeton Charles Rebstock Professor Emeritus of Biology and Genetics Professor of Evolutionary and Environmental Biology

Department of Biology Washington University St. Louis, MO 63130-4899 USA Institute of Evolution, and

Department of Evolutionary and Environmental Biology University of Haifa Haifa 31905, Israel p. 314-935-6868 f. 314-935-4432 e. temple_a@wustl.edu http://-pages.wustl.edu/templeton

templeton@biology2.wustl.edu

UInnsbruck NextGenerationSequencing

EVOLUTIONARY SYSTEMATICS, INSTITUTE OF BOTANY, UNIVERSITY OF INNSBRUCK PostDoc position

The Evolutionary Systematics group of the Institute of Botany seeks to hire a PostDoc with experience in practical field work (collection of samples mostly in Europe) and Next Generation Sequencing (wetlab and bioinformatic analysis of restriction site associated DNA [RAD] sequencing data). The position starts March or April 2014 (32 hrs/week employment for 36 months). Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at: http://www.uibk.ac.at/botany/research/-biodiversity/vascular_plants/index.html.en . The successful candidate will conduct NGS-based phylogeographic studies of a range of steppe organisms, including both plants and animals. The project consortium is international and includes members of the Universities of Innsbruck and Vienna (Austria), Lausanne (Switzerland) and the Real Jardín Botánico in Madrid (Spain). The project addresses the following issues: (1) Did the steppe biota colonize each Alpine dry valley independently or is there evidence for genetic exchange among the insular steppe habitats of different valleys? (2) What are the biogeographic connections of steppe biota from the Alpine dry valleys with other areas of steppe vegetation in Eurasia? (3) Are phylogeographic patterns seen in steppe plants and animals congruent, implying range shifts of entire communities or rather idiosyncratic suggesting individualistic responses to climatic oscillations? (4) Our phylogeographic approach will unravel intraspecific patterns of spatial differentiation and temporal diversification across steppe plant and animal lineages. These will then not only be compared to each other, but also to independent data sources. Changes of distribution ranges of our study taxa through time will be hindcasted using environmental niche modeling. A description of the project can be found at http://www.uibk.ac.at/botany/research/-biodiversity/vascular_plants/steppe-flora.html.en).

Responsibilities 1. collection of samples of steppe species in Europe (Alps, Eastern Europe) and Asia 2. optimization of a double digest RAD sequencing protocol for the study species, barcoding of individuals for pooled analyses 3. processing raw Illumina data and filtering of SNPs 4. phylogeographic and phylogenetic (BEAST, ABC-approaches, etc.) data analyses 5. species distribution modeling with Maxent 6. leading role in manuscript writing 7. contact and collaboration with scientists and laboratory technicians at the Molecular Ecology group, Institute of Ecology, Innsbruck University, as well as at other Austrian research facilities, and internationally

Selection criteria A. PhD degree in life sciences B. published research experience in molecular systematics / evolution / biogeography, especially using high-throughput sequencing data C. proficiency in maintenance of Linux systems for bioinformatic purposes, Biopython, mysql, scripting languages (e.g. awk, Perl, R) D. experience in the use of relevant software packages for phylogeographic / phylogenetic analyses E. ability to conduct field work for several consecutive weeks F. ability to work as part of a multi-disciplinary team G. ability to work independently H. very good knowledge of English I. a car driving license and experience in driving are obligatory for the collecting trips

Salary The annual gross salary is Euro 48,968 for a three-year 32 hrs/week employment. The contract includes health insurance and 5 weeks of holidays annually.

How to apply To apply, please submit by E-mail to <peter.schoenswetter@uibk.ac.at>: a cover letter, systematic point-by-point replies as to your readiness for the responsibilities and how you meet the selection criteria, brief statement of research interests, curriculum vitae, a complete list of publications and two reference letters.

Applications must be written in English. Consideration of applications will be ongoing until the position is filled.

The University of Innsbruck is striving to increase the percentage of female employees and therefore invites qualified women to apply. In the case of equivalent qualifications, women will be given preference. An offer of employment is contingent on a satisfactory pre-employment background check.

The research institution and its environment Detailed information about the Evolutionary Systematics group can be found at http:/-

/www.uibk.ac.at/botany/units_research_groups/-evolutionary_systematics.html.en .

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UKansas Biodiversity

The University of Kansas' Biodiversity Institute (BI) is excited to announce a new postdoctoral position. The genomics specialist will conduct collaborative research and oversee the BI's shared-use molecular genetics laboratory. The BI's molecular laboratory is a newly renovated facility with ample bench space and state of the art equipment that is located in the KU Natural History Museum. This laboratory is used by a diverse and highly interactive group of approximately 25 scientists who are addressing a range of research questions in systematics and population genetics using organisms from across the tree of life (e.g., insects, spiders, plants, fish, birds, reptiles, amphibians, mammals, invertebrate parasites, and viruses).

Because this position is supported by the Institute rather than an individual PI, it offers considerable intellectual freedom. Our goal is to hire someone who is interested in developing collaborative projects with one or more members of our current group. These researchers already have numerous projects involving acquisition and analysis of genomic sequence data underway, and are looking to to add some outside talent capable of taking this work in new directions. We are hoping to find someone with prior genomics and bioinformatics experience who also has strong organismal interests and would enjoy working in one of the world's finest natural history museums.

The position will be for a two year term (with possible renewal for a third year) and offers a competitive salary ($42-$45K, depending on prior experience). We will start reviewing applications on February 15th. The official posting lists May 2014 as the anticipated start date, but we can be flexible on this. More information about molecular genetics group, including a list of users and projects, can be found at http:/-/bimoleculargeneticslab.wordpress.com/. The official posting and application site can be found a KU's employment pages http://employment.ku.edu/jobs/4363. Please feel free to contact me if you have any questions.

Cheers, Rich Glor

Dr. Richard E. Glor Curator, Herpetology Division, KU Biodiversity Institute Associate Professor, Department of Ecology and Evolutionary Biology University of Kansas Dyche Hall, 1345 Jayhawk Blvd Lawrence, KS 66045-7593 E-mail: glor@ku.edu Cell: (585) 734-8493 On the web: Glor Lab; Anole Annals; Tree Thinkers

glor@ku.edu

UMontpellier SangerInst ApeMalariaGenomics

Postdoctoral Position in Malaria Comparative Genomics / Evolutionary Biology: Franceville (Gabon), Montpellier (France), Hinxton (UK)

Postdoctoral position in Comparative genomics / Evolutionary biology at Centre International de Recherche Médicales de Franceville, Gabon.

We are seeking a highly motivated Postdoctoral Fellow to join our team investigating the genetic adaptations to human host environment in *Plasmodium falciparum* and *P. vivax*, the two main agents of human malaria in the world, using the tools of comparative genomics.

Project description: When a host radiation or host transfer event occurs, it is expected to be accompanied by adaptive evolutionary changes that allow the parasite to complete its life cycle in the new host species as well as being transmitted from individuals to individuals in this new host species. Identification of the positions in the parasite genome underlying the differences between host-specific lineages may provide information about the molecular basis for species-specific adaptation. Our objective is to identify regions of the genome that have been subject to lineage specific evolution over the history of *P. falciparum* as well as *P. vivax*in humans and that may have played a role in the adaptation of the pathogen to this host. We will use the tools of comparative genomics to detect these genomic regions by comparing the genomes of *P. falciparum* and *P. vivax*to the genome of their most closely related species. This will include in particular the genome of *P. praefalciparum* which was recently discovered in gorillas and the *P. vivax* sylvatic clade which was also recently discovered in great apes (chimpanzees and

gorillas). Genomic data are already available for immediate start of the analysis.

Research environment: The postdoctoral fellow will work directly in the group of Dr Franck Prugnolle in close collaboration with Dr Thomas Otto and Dr Mathew Berriman (Sanger Institute, UK), Dr François Renaud (CNRS, France, Laboratory MIVEGEC) and Dr Benjamin Ollomo (CIRMF, Gabon). For the first year, at least, the post-doctoral fellow will be based in Gabon at the International Center for Medical Research in Franceville but missions in Europe will be done for data analyses. The CIRMF comprises 15 researchers of different nationalities, working on a variety of key issues in parasitology, including the study of emerging diseases, entomology, ecology and evolution. The Sanger Institute is an institute of reference for comparative genomics. The Laboratory MIVEGEC in Montpellier is considered as a laboratory of excellence for the study of host / parasite systems and interactions.

Qualifications: A PhD degree in Evolutionary Biology / Evolutionary genetics is required. The PhD degree should have been awarded no more than two years prior to the date of application. The applicant should be well acquainted with theories in evolution and population genetics and genomics. Ability to manage a laboratory research project is also required. Documented experience in genomics, programming, statistics and parasitology will also be highly valued. The candidate must have a good knowledge of English. Selection will be based on the written application, CV, personal references and an interview. For more information, please contact Dr Franck Prugnolle by *email* (franck.prugnolle@ird.fr).

Form of employment: Temporary employment for 2 years.

Place of work: Franceville (Gabon) for at least a year. Then possibility to be located in Montpellier (France, Laboratory MIVEGEC, IRD).

Starting date: As soon as possible. Application: Please submit your application to Dr Franck Prugnolle (franck.prugnolle@ird.fr) and Dr Thomas Otto (tdo@sanger.ac.uk).

Salary: 2032 euros per month. In Gabon, the postdoctoral fellow will be accommodated for free.

*Selected publications of the persons involved in the project: *

Prugnolle F, Rougeron V, Becquart P, â. *Renaud F*. 2013. Diversity, host switching and evolution of *Plasmodium vivax* infecting African great apes*. Proc Natl Acad Sci U S A. 110(20):8123-8*

Prugnolle F, *Ollomo B*, Durand P, Yalcindag E, Arnathau C, et al., 2011: African monkeys are infected by *Plasmodium falciparum* nonhuman primate-specific strains. *Proc Natl Acad Sci U S A* 108(29): 11948-11953.

Prugnolle F, Durand P, Neel C, *Ollomo B*, Ayala FJ et al. *Renaud F.*, 2010: African great apes are natural hosts of multiple related malaria species, including *Plasmodium falciparum*. *Proc Natl Acad Sci U S A* 107(4): 1458-1463.

Ollomo B, Durand P, *Prugnolle F*, Douzery E, Arnathau C et al., 2009: A new malaria agent in African hominids. *PLoS Pathog* 5(5): e1000446.

Prugnolle F, McGee K, Keebler J, Awadalla P, 2008: Selection shapes malaria genomes and drives divergence between pathogens infecting hominids versus rodents. *BMC Evol Biol* 8: 223.

Spence PJ, Jarra W, Lévy P, Reid AJ, Chappell L, Brugat T, Sanders M, *Berriman

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UNorthCarolina Charlotte EvolutionInfectiousDiseases

UNC-Charlotte's Bioinformatics and Genomics Department is engaged in a multi-year expansion. In addition to the new $35M Bioinformatics Building the department has the leadership role in Bioinformatics in the North Carolina Research Campus (NCRC) in Kannapolis. NCRC is a $1B research park that is becoming home to academic and industrial research. As a whole our programs goals are to use these platforms to perform research and teaching in the fields that bioinformatics touches upon including but not limited to: defense, agriculture, health care, and natural sciences.

Some of our work is illustrated here: http://viscenter.uncc.edu http://supramap.org We seek a Bioinformatics Research Associate with M.S. or Ph.D. in a technical field and experience in the following: Java, R, GIT, KML, biomedicine, evolution, and visual analytics. The bioinformatics research associate will initially work closely with stakeholders in studies

of the evolution of infectious diseases to integrate software components to each other into a novel workflow. The research associate will also prepare demonstrations as well as written and pictorial presentations for use by supervisors.

We seek a creative individual who will bring novel skills to a scientific team and contribute to existing and new projects with those skills. The authority and discretion the individual has will be a function of conclusions made in design meetings. Action items and milestones will be assigned in meetings and follow up will be expected.

unccpostdoc@gmail.com

UOldenburg BiodiversityDeterminants

Postdoctoral Position 'Determinants of local biodiversity in a marine-terrestrial environment'

within the project "Biodiversity effects on ecosystem functioning across marine and terrestrial ecosystems (BEFmate)"

Rationale

The BEFmate project is a new biodiversity-ecosystem functioning experiment focusing on island colonization in the North Sea (Germany).

We aim at understanding biodiversity-ecosystem function relationships across marine and terrestrial ecosystems in space and time.

A particular focus of the subproject PD.A1 is the synthesis of information on determinants of local biodiversity (i.e., at the level of communities) and how biodiversity relates to functional aspects of these communities. The Postdoc will make use of existing information on biodiversity present in the disciplinary scientific communities (marine, freshwater, and terrestrial ecology) and synthesize these based on hypotheses derived from major ecological frameworks. Both ecological stoichiometry and metabolic theory of ecology promise to predict the functioning of ecosystems across organism groups and ecosystems. Therefore, we intend to test whether the consequences of species loss can be predicted from organism traits (such as body or genome size), abiotic conditions (such as temperature) and biotic interactions (such as competition for resources and trophic interactions) across aquatic and terrestrial ecosystems, address whether resource supply also alters community composition through genome size constraints on organisms across ecosystems, and finally analyze whether resource stoichiometry allows predicting patterns in biodiversity and the functional role of species. For these subtasks, we will employ quantitative meta-analysis statistics and comparative phylogenetic methods.

The project will be tightly integrated with other subprojects, involving several PIs (especially Prof. Helmut Hillebrand and Prof. Dirk Albach), five other Postdocs and eight doctoral students.

Requirements

Above average doctoral or PhD degree in biology, ecology, evolution or related disciplines with proven publication in scientific journals.

Further requisite is knowledge in ecological synthesis, phylogenetics, as well as statistical knowledge (preferably R) and handling of large datasets.

Salary and conditions

Salary will be according to TVL E13 (100%). Start date: March 1, 2014. The position is for three years. The doctoral thesis will be written

as a series of English manuscripts.

Applications

The deadline for applications is January 30, 2014.

Application documents must include the following:

the reference number: PD.A1

a curriculum vitae (in tabular format)

a list of publications, talks and posters

copies of certificates

letter(s) of reference

Please send your application as a single PDF document to: Prof. Helmut Hillebrand, helmut.hillebrand@uni-oldenburg.de (or by post to Prof. Dr. Helmut Hillebrand, Universität Oldenburg, Postfach 2503; 26111 Oldenburg)

Prof. Dr. Dirk C. Albach

AG Biodiversität und Evolution der Pflanzen

Institut für Biologie und Umweltwissenschaften

Carl von Ossietzky-Universität Oldenburg

Carl von Ossietzky-Strasse 9-11

D-26111 Oldenburg

Germany/Deutschland

Tel.: 0049 (0)441 7983339 Fax: 0049 (0)441 7983331

http://www.plant-evol.uni-oldenburg.de/ Dirk Albach <dirk.albach@uni-oldenburg.de>

DETAILS: please visit www.reading.ac.uk/jobs (job reference number: RS14002)

sar04cdv@reading.ac.uk

UReading FossilsAndPhylogenetic-Macroevolution

School of Biological Sciences, University of Reading, UK.

POSTDOCTORAL RESEARCHER IN FOSSILS AND PHYLOGENETIC MACROEVOLUTION

START DATE: April 2014 (or a soon as possible thereafter) APPLICATION CLOSING DATE: 23 February 2014

We seek to appoint a postdoctoral researcher who will be an integral part of a research project on 'The evolutionary paths to diversity and innovation' supported by a Leverhulme Trust Research Programme Grant (PI: Dr Chris Venditti; Co-Is: Dr Andrew Meade and Professor Mark Pagel). The project will involve a series of investigations designed to understand how evolutionary divergence accumulates through time and interacts with biological novelty. A fundamental part of this project is the incorporation of fossil information in to macroevolutionary studies. As such the appointed postdoctoral researcher will be involved in constructing phylogenetic trees that include fossil species, collecting data on fossil and extant species as well as using and developing novel phylogenetic comparative techniques. Dissemination of results via conference presentations and research papers are also among the main responsibilities.

INFORMAL ENQUIRIES ARE ENCOURAGED AND SHOULD BE DIRECTED TO DR CHRIS VENDITTI (c.d.venditti@reading.ac.uk).

YOU WILL HAVE: - A PhD in a relevant subject (or one to be submitted before the start date) - Knowledge of paleobiology and the fossil record - Understanding of phylogenetic comparative methods and phylogenetic inference - The ability to conduct statistical analyses appropriate for the study of large scale evolutionary processes - Excellent analytical, quantitative and computational skills - The ability to efficiently perform data collection and mining - The ability to work in a multidisciplinary environment and as a member of cohesive team

FORMAL APPLICATION PROCESS AND MORE

URhodeIsland GeneticVariation

Multicultural Post-Doctoral Fellowship in Genetics

The Department of Biological Sciences in the College of the Environment and Life Sciences at the University of Rhode Island is seeking a Multicultural Post-Doctoral Fellow with expertise in genetics and a commitment to bringing multicultural perspectives to the curriculum, department, college, and university.

The successful candidate will have a doctoral degree in an area of genetics or related field relevant to an understanding of the genetic basis of variation and diversity. The research field may include but is not restricted to developmental, evolutionary, or population genetics; genetic and genomic informatics; or mechanisms of gene regulation.

The appointment is for the 2014-2015 calendar year. Subject to a favorable review of teaching and scholarly activities, the Fellow may be provided with an opportunity to transition into a full-time, tenure-track faculty position. The Fellow will contribute to teaching undergraduate and/or graduate courses in genetics each semester and will be encouraged to pursue his/her scholarly interests. The Department will provide mentoring toward professional growth.

Please attach the following (PDF) documentation to the online Employment Application: (1) A cover letter that addresses eligibility requirements and should include demonstrated evidence of understanding of and commitment to bringing multicultural perspectives to the curriculum, research, teaching, and service, and promoting the success of those in underrepresented groups; (2) A CV that includes the names and contact information for three individuals who will serve as references and who are familiar with your research and teaching qualifications; (3) A one-page statement of teaching philosophy; (4) Under ?Other Document,? please include a one-page description of research interests and accomplishments. Visit our website at https://jobs.uri.edu to apply and to view the complete details for job post (#6001336). Applications will close January 27, 2014. Only online applications are accepted. For information about the Biological Sciences Depart-

ment at the University of Rhode Island, please go to http://cels.uri.edu/bio/. The University of Rhode Island is an AA/EEOD employer and values diversity.

Marian Goldsmith <mki101@etal.uri.edu>

USouthBohemia PlantInsectEvolution

Postdoctoral Research Fellow in Tropical Ecology

Novotny Lab, Biology Centre of the Academy of Sciences & University of South Bohemia, the Czech Republic

We are seeking a highly motivated and productive postdoctoral researcher to join our international team studying plant-insect food webs in tropical forests. The successful applicant will develop ecological, statistical, molecular or phylogenetic analyses of large data sets on plant-insect food webs. In addition, s/he will be able to develop an independent project, use our excellent tropical field research facilities in Papua New Guinea and collaborate closely with our partners at the University of Minnesota and the Smithsonian Institution. S/he will also contribute to the design of further studies of food webs, help apply for grant support and mentor graduate students.

Information on our research team:http://-www.entu.cas.cz/png/cv-novotny-vojtech-lab.html Eligibility: A completed PhD degree is required. Applicants from all countries are eligible.

Salary: Euro 14,000 - 24,000 pa

Limit of tenure: initially one year, expandable to three years.

Location: Ceske Budejovice, Czech Republic.

More details on the position:http://www.entu.cas.cz/-png/brc-vacancies.htm Application process: Send the application including CV, names of three referees, and a cover letter stating your previous work, qualification and motivation by email to Prof. Vojtech Novotny [novotny@entu.cas.cz]. Review of applications will begin on 15th February and will continue until the position has been filled. The position is available from 1st April 2014.

Research fields: ecology, conservation biology, tropical forests, insect-plant interactions

tmfayle@gmail.com

USouthernCalifornia ComputationalBiol

We are seeking two postdocs, one computational and one experimental, for work on a large behavioural genetics project in Drosophila melanogaster.

The computational/analytic postdoctoral researcher will require experience and strong computational skills in one or more of the following areas: machine learning, computer vision, agent-based simulation, Bayesian statistics and bioinformatics. The successful applicants may variously need to optimise software silhouette detection and feature annotation software for video data, develop machine learning algorithms for trajectory analysis and behavioural recognition algorithms, develop conceptual or simulation models, and parallelise these on CPUs or GPUs.

The experimental postdoctoral researcher should have experience with high throughput genetic techniques, including genotype sequencing and library preparation, and gene expression analysis. Familiarity with Drosophila culturing and experimental techniques would be welcome, but are not required. The successful applicant will variously need to conduct crosses, design and set up behavioural experiments, and process and analyse genetic data.

We are a large collaborative and interactive team located jointly at the Program in Molecular and Computational Biology at USC and the Keck School of Medicine of USC, in the heart of Los Angeles, California. We are supported by an NHGRI Center of Excellence in Genomic Science and multiple NIMH and NSF grants to study genetic variation in population and community contexts, and to model the mechanics and genetics of complex social behaviour. The postdocs will be jointly advised by Sergey Nuzhdin, Paul Marjoram, Simon Tavaré and Gary Chen, and will closely collaborate with several other Faculty and approximately 20 other team members, including computational and experimental scientists, and a large team of motivated undergraduate researchers.

Please send a statement of interest, CV, and names of 3 referees to Paul Marjoram <pmarjora@gmail.com> and Sergey Nuzhdin <snuzhdin@usc.edu>. Consideration of applications will be ongoing until the positions are filled.

brfoley.usc@gmail.com

USouthernCalifornia SpeciationGenetics

POSTDOCTORAL POSITION TO STUDY THE EVOLUTIONARY ORIGIN AND ACCUMULATION OF HYBRID INCOMPATIBILITIES IN THE COPEPOD TIGRIOPUS CALIFORNICUS

The position is available in the lab of Suzanne Edmands in the Department of Biological Sciences at the University of Southern California (lab website: https://-dornsife.usc.edu/labs/edmands/).

The goal of this NSF-funded project is to map hybrid incompatibilities in a series of crosses chosen from a multi-locus phylogeny, allowing incompatibilities to be mapped to specific branches of the phylogeny. The work focuses on the copepod Tigriopus californicus, a non-model organism with a recently-assembled genome which differs from more standard models of speciation genetics in that it lacks heteromorphic sex chromosomes.

The postdoc would be involved in setting up and maintaining interpopulation crosses, genotyping (including, but not limited to, ddRADseq) and statistical analyses (including, but not limited to, QTL mapping). The ideal candidate would have a strong background in evolutionary and quantitative genetics, with experience in bioinformatics and next gen sequencing. The position is available for 2.5 years with a flexible start date, preferably before June 2014.

Please send a statement of interest, CV, and contact information for 3 references to Suzanne Edmands at sedmands@usc.edu. Consideration of applications will continue until the position is filled.

Suzanne Edmands Professor Department of Biological Sciences 3616 Trousdale Parkway, AHF 316 University of Southern California Los Angeles, CA 90089 (213)740-5548 http://dornsife.usc.edu/labs/edmands/ edmandss@gmail.com

USydney EvolutionOfVirulence

POSTDOCTORAL RESEARCH ASSOCIATE - EVOLUTION OF VIRULENCE IN VIRAL PATHOGENS FACULTY OF SCIENCE, SCHOOL OF BIOLOGICAL SCIENCES, UNIVERSITY OF SYDNEY, AUSTRALIA REFERENCE NO. 2580/1113

- Further develop your research profile on an Australian Research Council Discovery Grant project - Phylogenetic analysis, bioinformatics and evolutionary biology - Full-time, fixed term 3 years; remuneration package: up to $99K p.a.

The University of Sydney is Australia's first University with an outstanding global reputation for academic and research excellence. It employs over 7500 permanent staff supporting over 49,000 students. The University's School of Biological Sciences has over 30 academic staff members who are active in teaching, research, and have outstanding international reputations.

Applications are sought for a Postdoctoral Research Associate positions to participate in a new research programme investigating the evolution of virulence in viral pathogens, using caliciviruses of rabbits as a model system. The project is funded by an Australian Research Council Discovery Grant held by Professor Edward C. Holmes (NHMRC Australia Fellow).

Rabbit Haemorrhagic disease virus (RHDV) is a calicivirus that is used widely in Australia and New Zealand to control overabundant rabbits, a major environmental and economic pest. It is an example of an emerging disease that likely evolved from a non-virulent predecessor via mutation into an extremely virulent virus. However, the nature of these mutations remains unknown. The first part of the project will involve sequencing of large numbers of non-pathogenic and pathogenic calicivirus sequences for genetic analysis, aimed at identifying the likely âgenetic switches' responsible for the acquisition of virulence and tissue tropism. The second part of the project will involve the design and development of recombinant viral genomes in order to deactivate the proposed genetic switches, and the subsequent testing of these viruses in the rabbit host.

This is an outstanding opportunity to further develop your research career in a specialised field under the guidance and mentoring of highly regarded research academics. As this is a collaborative project with CSIRO Ecosystem Sciences in Canberra, you will be largely based in Canberra for the laboratory work.

To succeed you will have: - a PhD and a record of published research as sole author or in collaboration on a related subject area (e.g. virology, molecular evolution, biocontrol)

- strong demonstrated skills in molecular biology and virology with a good understanding of the key aspects of virus biology

- experience in Bioinformatic analysis (i.e. computational biology) of gene and genome sequences

- keen interest in phylogenetic analysis, bioinformatics and evolutionary biology

- demonstrated experience in planning, conducting and interpreting next-generation sequencing data and analyses

- willingness to work with laboratory animals for research purposes

- demonstrated ability to conduct research/scholarly activities under limited supervision either independently or as a member of a team, and to facilitate collaborations with other research groups

- good written and verbal communication skills, experience in research record keeping, preparation of research papers and seminars.

The position is full-time fixed term for three years subject to the completion of a satisfactory probation period for new appointees. Membership of a University approved superannuation scheme is a condition of employment for new appointees.

Remuneration package: up to $99K including base salary up to level A step 7, leave loading and up to 17% superannuation. Some support towards relocation and visa sponsorship will be available for the successful appointee if required.

All applications must be submitted via the University of Sydney careers website. Visit sydney.edu.au/recruitment and search by the reference number for more information and to apply.

CLOSING DATE: 31 January 2013 (11:30pm Sydney time)

The University is an equal opportunity employer committed to equity, diversity and social inclusion. Applications from equity target groups and women are encouraged. The University of Sydney has also established a scheme to increase the number of Aboriginal and Torres Strait Islander staff employed across the institution. Applications from people of Aboriginal and Torres Strait Islander descent are encouraged.

PROFESSOR EDWARD C. HOLMES NHMRC Australia Fellow

THE UNIVERSITY OF SYDNEY Marie Bashir Institute for Infectious Diseases & Biosecurity, School of Biological Sciences and Sydney Medical School, Macleay Building A12 | The University of Sydney | Sydney | NSW | 2006 | Australia T +61 2 9351 5591 F +61 2 9351 3890 E edward.holmes@sydney.edu.au

Edward Holmes <edward.holmes@sydney.edu.au>

USydney VirusEvolution

POSTDOCTORAL RESEARCH ASSOCIATE - VIRUS EVOLUTION FACULTY OF SCIENCE, SCHOOL OF BIOLOGICAL SCIENCES, UNIVERSITY OF SYDNEY, AUSTRALIA REFERENCE NO. 2581/1113

- Further develop your research profile on an NHMRC funded project

- Evolutionary analysis of viral gene and genome sequences with experience in Bioinformatic analysis

- Full-time, fixed term 2 years; remuneration package: up to $99K p.a., further offers may be possible subject to funding and need

The University of Sydney is Australia's first University with an outstanding global reputation for academic and research excellence. It employs over 7500 permanent staff supporting over 49,000 students. The University's School of Biological Sciences has over 30 academic staff members who are active in teaching, research, and have outstanding international reputations.

We have a postdoctoral research position available to work with a new research program on various aspects of virus evolution, emergence and epidemiology being established by Professor Edward C. Holmes (NHMRC Australia Fellow). Particular areas of research interest include (i) molecular evolution and epidemiology of RNA and DNA viruses, particularly those that pose a threat to Australia, (ii) the evolutionary genetic basis of cross-species transmission and emergence in a number of model systems, notably parvoviruses and influenza viruses (in collaboration with Dr. Colin Parrish, Cornell University), and (iii) to conduct comparative phylodynamic analyses on a wide range of human and animal viruses.

You will also be expected to take part in collaborative projects with other research groups in Australia and overseas and will have the opportunity to produce and contribute to scientific research publications and to take on responsibility for graduate student supervision where appropriate.

To succeed you will have:

- a PhD and a record of published research in areas related to molecular evolution, computational biology and/or virology

- experience with the evolutionary analysis of viral gene and genome sequences including phylogenetic analysis and Bayesian coalescent analysis

- published research as sole author or in collaboration on the subject described above (i.e. the molecular evolution of viruses and comparative genomics)

- experience in Bioinformatic analysis (i.e. computational biology) of gene and genome sequences

- good working knowledge of microbiology with a particular focus on virology and good understanding of the key aspects of virus biology

- demonstrated ability to conduct research/scholarly activities under limited supervision either independently or as a member of a team, and to facilitate collaborations with other research groups

- good organisational and administrative skills with attention to detail and good written and verbal communication skills, experience in research record keeping, preparation of research papers and seminars.

This is an outstanding opportunity to further develop your research career in a specialised field under the guidance and mentoring of highly regarded research academics.

The position is full-time fixed term for two years subject to the completion of a satisfactory probation period for new appointees; further offers may be available subject to funding, need and performance. Membership of a University approved superannuation scheme is a condition of employment for new appointees.

Remuneration package: up to $99K including base salary up to level A step 7, leave loading and up to 17% superannuation. Some support towards relocation and visa sponsorship will be available for the successful appointee if required.

All applications must be submitted via the University of Sydney careers website. Visit sydney.edu.au/recruitment and search by the reference number for more information and to apply.

CLOSING DATE: 31 January 2013 (11:30pm Sydney time)

The University is an equal opportunity employer committed to equity, diversity and social inclusion. Applications from equity target groups and women are encouraged. The University of Sydney has also established a scheme to increase the number of Aboriginal and Torres Strait Islander staff employed across the institution. Applications from people of Aboriginal and Torres Strait Islander descent are encouraged.

PROFESSOR EDWARD C. HOLMES NHMRC Australia Fellow

THE UNIVERSITY OF SYDNEY Marie Bashir Institute for Infectious Diseases & Biosecurity, School of Biological Sciences and Sydney Medical School, Macleay Building A12 | The University of Sydney | Sydney | NSW | 2006 | Australia T +61 2 9351 5591 F +61 2 9351 3890 E edward.holmes@sydney.edu.au

Edward Holmes <edward.holmes@sydney.edu.au>

UTulsa BiodiversityClimateVariability

Postdoctoral Position in Biodiversity and Climate Variability

A postdoctoral position is available in the Department of Biological Science at the University of Tulsa. The position is part of the highly integrative NSF EPSCoR project on the socio-economic impacts of climate variability in Oklahoma. This project includes Biologists, Ecologists, Climatologists, Hydrologists, Sociologists, and Economists from the University of Tulsa, University of Oklahoma, Oklahoma State University, and the Nobel Foundation. The Department of Biological Science at the University of Tulsa is serving as the biodiversity contingent of the project.

The postdoc will primarily be responsible for working on Oklahoma biodiversity/climate related research projects with faculty at the University of Tulsa and collaborators. The postdoc will also teach a one semester (per year) graduate/undergraduate GIS based course on ecological modeling. The postdoc will have access to training and interactions with researchers at the world class South Central Climate Science Center in Norman, Oklahoma. This position has potential for high research productivity, and acquiring teaching experience and specialized training.

Applicants must have a Ph.D. in Biology or a related discipline prior to the start of the appointment (June 2014). The position requires significant experience with Geographic Information Systems (GIS); particularly with relevance to problems of biodiversity, conservation, ecology, and evolution.

The University of Tulsa is a private institution with ~4,500 students (3/4 undergraduate and 1/4 graduate students): http://www.utulsa.edu Faculty and graduate students in our department study biodiversity of algae, bacteria, fungi, amphibians, fishes, mammals, insects, and viruses. Tulsa is a vibrant city (pop. ~550,000) located in the Green Country of northeastern Oklahoma. Tulsa has all the amenities of major US cities, but with relatively low cost of living.

To apply, please send a letter of Intent, CV, and contact information for three references to: Ron Bonett (ron-bonett@utulsa.edu), by February 15th 2014.

The position can start on or after June 1st 2014.

Ronald M. Bonett, Ph.D. Associate Professor Department of Biological Science 800 S. Tucker Drive University of Tulsa Tulsa, OK 74104

Email: ron-bonett@utulsa.edu Office: (918) 631-3328 Lab: (918) 631-3327 http://ronbonett.weebly.com/-index.html "Bonett, Ron" <ron-bonett@utulsa.edu>

UdeLisboa EvolutionaryBiology 2

One Post-doctoral Fellowship is open until january 19th by the Fundacao da Faculdade de Ciencias da Universidade de Lisboa, within the project "History, chance and selection during local adaptation: a genome-wide analysis"/ Centro de Biologia Ambiental (PTDC/BIA-BIC/2165/2012), financed by national funds from the FCT under the program FCT/MEC (PIDDAC) under the following conditions:

Scientific Area: Evolutionary Biology

Requirements for admission: PhD in Genetics, Evolution or Bioinformatics, with preference for applicants with advanced expertise on genome-wide DNA and transcriptome data analysis.

Work plan: The applicant will help the team in the genome-wide data analysis, as well as in general in the labororatory tasks, involving population maintenance, experiments and DNA and RNA extraction for genome-wide analysis.

Legislation framework: A fellowship contract will be celebrated according to the regulations defined by FCT "Regulations for Advanced Training and Qualification of Human Resources", in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of 9 July. And also by the FCT, I.P. Fellowships Regulation of 2013 approved by Regulation No. 234/2012, of June 25, as amended by Regulation No 326/2013 of 27 August 2013.

Place of work: The work will be developed at the Centro de Biologia Ambiental da Faculdade de Ciencias da Universidade de Lisboa under the scientific guidance of Margarida Matos.

Fellowship duration: This position is initially opened for 6 months and will begin in February 2014. The grant contract may be renewed to more 10 months, with a total duration of 16 months, or eventually until the end date of the project.

Monthly allowance: The fellowship amounts to euro 1495, according to table values of the scholarships awarded directly by the FCT, IP. (http://www.fct.pt/-apoios/bolsas/valores). The grant holder will have a personal accident insurance and, if not covered by any social protection scheme, he/she has the right to social security through adherence through the voluntary social insurance scheme, pursuant to Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social. The scholarships will be paid monthly by bank transfer

Selection method: Candidates will be assessed by the quality of their CV. If needed an interview will occur with pre(selected) candidates in which case the weight will be 80% for the Curriculum and 20% for the interview.

Deadlines: This call for applications is open from January 8th to January 19th 2014

Application: Applications may be sent via e-mail to mmatos@fc.ul.pt by attaching a CV, a motivation letter and two references.

Margarida Matos Assistant Professor Centro de Biologia Ambiental Faculdade de Ciencias da Universidade de Lisboa

mmmatos@fc.ul.pt

Uppsala ModelingSpeciesDistribution

Dear colleague, I would appreciate help to spread this announcement of two postdoc positions.

Sorry for cross-posting.

Best regards, Tord

–

Tord Snäll Artdatabanken / Swedish Species Information Centre Swedish University of Agricultural Sciences (SLU) P.O. 7007, SE-750 07 Uppsala, Sweden Office/Mobile/Fax +46-18-672612/+46-76-7662612/+46-18-673537 www.slu.se/artdatabanken/tordsnall Two postdocs: Population modelling for forestry impact analysis

The Swedish Species Information Centre is a national centre for the knowledge on biodiversity. Our work includes compiling and storing biodiversity data and assessing the viability of species in Sweden. We are currently recruiting two postdocs to expand our research on how populations may respond to land-use or climate change.

We are seeking two postdocs for modelling species distributions and (meta)population dynamics. The research is linked to the next forestry impact analysis (FIA) that has just been initiated by the Swedish Forest Agency. FIA investigate future consequences of scenarios of forestry policy such as wood production. For the next FIA, we will investigate the viability of species among scenarios. The research work is funded by the research council Formas.

Duties: The two postdocs will develop models to be used for population viability analyses assuming the FIA scenarios and additional forestry scenarios at national and landscape scales. For model development, Citizen Science Data reported to www.artportalen.se as well as systematically collected research data will be used. Both species distribution modelling and dynamic (meta)population modelling will be applied. Also different types of covariate data will be used, ranging from detailed field measurements to remote sensing estimates available via Swedish LifeWatch (www.analysisportal.se). We will study mobile as well as sessile species, e.g. birds, beetles, polypore fungi or lichens. One of the postdocs will study polypore fungi and he/she will participate in field work in Finland in the autumn of 2014.

Qualifications: Scientific qualifications within the subject area are necessary. Earlier research on modelling species distributions, (meta)population dynamics or forest dynamics is required. Knowledge on Geographic Information Systems is desirable. Good collaborative ability is appreciated.

Competence: Applicants should hold a PhD degree in ecology, forest management or statistics. Priority will be given to applicants who have been awarded their PhD degree at most three years before the application deadline.

Place of work: Uppsala

Form of employment: Temporary employment.

Extent: 100%, two years.

Starting date: As soon as possible, but negotiable.

Application: We welcome your application marked with Ref no. SLU ua 5912/2013.

Please submit your application to the Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden or registrator@slu.se no later than January 28, 2014.

Specific documents attached: CV incl. publication list, PhD thesis, max. five publications, description of previous research (max. two pages), and of current research interests and the research that the applicant would like to carry out within this position (maximum two pages), contact details of at least two reference persons.

SLU is an equal opportunity employer.

http://www.slu.se/sv/om-slu/fristaende-sidor/-aktuellt/lediga-tjanster/las-mer/?eng=1&Pid=1304
Tord.Snall@slu.se

Vienna Experimental evolution Drosophila

Experimental Evolution in Drosophila

A postdoctoral position is available at the Institute of Population Genetics, Vetmeduni Vienna (Austria). The research focus of the Institute of Population Genetics is on understanding the genetics of adaptation. This central question in evolutionary biology is being tackled using up-to-date methods and a variety of approaches, including experimental evolution, quantitative genetics, functional genetics, empirical population genetics, bioinformatics and statistics.

The successful candidate will be part of a team of scientists studying adaptation of experimental Drosophila populations to temperature stress. Since our experimental evolution study is performed under controlled environmental conditions with a high level of replication we have a powerful system to successfully employ a combination of DNA sequencing, RNA-Seq and Chip-Seq to characterize the architecture of adaptation in an out-crossing species. With some of our populations hav-

ing already evolved up to 100 generations, this project provides the opportunity to follow adaptive trajectories through time.

We are looking for a candidate with a good quantitative training and experience in handling large data sets. A background in population genetics and/or experience with the analysis of RNA-Seq and Pool-Seq data are a bonus.

The position is available from March 2014, but the exact starting date is negotiable. The application should be emailed to christian.schloetterer@vetmeduni.ac.at as a single pdf containing CV, list of publications, a statement of research interests, and the names of three references with contact details. While the search will continue until the position is filled, applications should be received by 3. Feb. 2014 to ensure full consideration.

Christian Schlötterer Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien Austria/Europe

phone: +43-1-25077-4300 fax: +43-1-25077-4390 http://i122server.vu-wien.ac.at/pop Vienna Graduate School of Population Genetics http://www.popgen-vienna.at schlotc@gmail.com

VillanovaU SystematicHerpetology

Systematic Herpetology Postdoc

Applications are invited for a postdoctoral research position in Systematic Herpetology at Villanova University in suburban Philadelphia, Pennsylvania. The position supports a large NSF-funded project dealing with climate-forced extinctions in lizards. The successful candidate will play a key role in the generation and analysis of phylogenetic data for African and Asian lizards and will interface with other laboratories working on this multi-institutional project. The postdoc will 1) help to organize and participate in herpetological collecting expeditions to Africa and Asia, 2) carry out laboratory and analytical portions of phylogeographic and phylogenetic studies of selected lizard groups, and 3) will help to mentor Masters students and undergraduates working on the project. The position is 100% research time and is funded for two years. The successful candidate must have completed their doctoral degree before taking up the position and should have experience in molecular phylogenetic laboratory techniques/DNA sequencing, current analytical techniques and relevant software for use in phylogenetic, phylogeographic and population level analyses and related studies and should have herpetological collecting experience. Knowledge of ecophysiology, remote-sensing, and/or GIS are beneficial and international collecting and permitting experience, particularly in Asia and/or Africa is desirable.

Applications must include a complete CV, transcripts, up to three relevant publications, a cover letter briefly outlining your fit to the position, your timeframe to start, and three letters of recommendation, preferably including doctoral advisor and/or postdoctoral advisor (if relevant). All information may be sent directly to Prof. Aaron M. Bauer at aaron.bauer@villanova.edu. Review of applications will begin on 27 February 2014, the search will remain open until the position is filled. The position may be taken up as early as possible after 1 March 2014.

Villanova is a catholic university sponsored by the Augustinian order. Diversity and inclusion have been and will continue to be an integral component of Villanova University's mission. The University is an Equal Opportunity/Affirmative Action employer and seeks candidates who understand, respect and can contribute to the University's mission and values.

Aaron M. Bauer Gerald M. Lemole, M.D. Chair of Integrative Biology and Director, Graduate Program in Biology Villanova University 800 Lancaster Avenue Villanova, PA 19085

Aaron Bauer <aaron.bauer@villanova.edu>

VillefrancheSurMer France Bioinformatics

The Tiozzo Lab (http://biodev.obs-vlfr.fr/ ~ tiozzo/-tiozzo-lab/index.html) is seeking a creative, skilled and highly motivated bioinformatician for an one year contract as post-doc or high-level technician. We do require strong experience with RNAseq and whole genome sequence data. Applicants should be also proficient in programming (R, Python, Perl, Java), have knowledge in statistics and have analytical and computational skills proven by an excellent publication record or by reference letters. Familiarity with mathematical modeling would be a plus. Applicants should be proficient in English; French knowledge is preferable but not required.

The hired postdoctoral fellows/high-level technician will work at the Observatoire Oceanologique du Villefranche sur Mer (http://www.obs-vlfr.fr/) in a highly international environment.

Contact Stefano Tiozzo (tiozzo@obs-vlfr.fr) for more information, and to apply, please send a single PDF file that contains a cover letter, full C.V., and contact information for three references. Start: As soon as possible.

Stefano Tiozzo, PhD Regeneration Team Villefranche sur mer Developmental Biology Laboratory (VDBL) (UMR7009 CNRS/UPMC) Observatoire Océanologique de Villefranche-sur-Mer Ph:+33 4 93 76 39 78 Fax:+33 4 93 76 37 92 web: http://biodev.obs-vlfr.fr/fr/equipes_de_recherche/-regeneration_et_pluripotence.html tiozzo <tiozzo@obs-vlfr.fr>

iDivLeipzigGermany SocioEcoSystemsApeHabitats

Postdoc researcher for social-ecological systems in ape habitat The tropical landscapes inhabited by African and Asian apes are complex social-ecological systems, in which rapidly growing human populations and local to global demand for natural resources are increasing the pressure on wildlife. Many protected areas have been created over the last decades. The further improvement of their effectiveness, however, will require innovative solutions from practitioners and scientists. Similarly, outside protected areas in resource extraction concessions for logging, mining or industrial agriculture, new solutions for balancing wildlife conservation and sustainability of natural resource use need to be developed.

We are seeking a highly motivated postdoctoral researcher with a background in sustainability science, environmental economics, socio-economics or related field and with particular interest and experience in complex social-ecological systems to join our team and project. The research to be conducted will focus on the improvement of the evidence-base for the sustainable use of natural resources and the protection of biodiversity in African and Asian great ape habitats. It further aims to identify those control, management and social-ecological contexts under which 'Resource Management Areas' (protected areas, mining, logging concessions) have proven to be particularly stable and resilient to disturbances.

The successful candidate will contribute with his/her research to the development of a conceptual framework for the analysis of complex social-ecological systems considering their specific characteristics in ape habitats, as well as its application for protected areas and resource extraction concessions. The candidate should have strong quantitative skills, and a keen interest to apply concepts and tools from complexity science. The work will also include regular travels to the field for which proficiency in French is desirable. The position is fully funded (according to TVöD) and will initially be available for two years, but can be extended for up to five years depending on performance. The place of work will be at the German Centre for Integrative Biodiversity Research (iDiv), located in Leipzig, Germany. Please send a CV, cover letter, list of publications and the contact details of two referees to Dr. Hjalmar Kuehl (kuehl@eva.mpg.de). Please reference 'Postdoc social-ecological systems in ape habitat' in the subject line.

arandjel@eva.mpg.de

WorkshopsCourses

Aix-en-Provence France MetaAnalysis May13-15

The Center for synthesis and analysis of biodiversity (CESAB), Aix en Provence, France, is pleased to announce a training course on meta-analysis organized May 13-15, 2014.

http://cesab.org/index.php?option=-com_content&view=article&id=86:announcement-for-a-meta-analysis-training-workshop&catid=-41:actualites&Itemid=347&lang=fr

bruno.fady@avignon.inra.fr

Bodega CA AppliedPhylogenetics Mar8-15

UC Davis

WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California

March 8-15, 2014

APPLICATIONS DUE JANUARY 6TH, 2014

Sponsored by the

University of California, Davis and Bodega Marine Laboratory

http://treethinkers.org Introduction

Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, playing an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecological communities. The estimation of phylogenetic trees is now a formalized statistical problem with general agreement on the central issues and questions. A nearly standard set of topics is now taught as part of the curriculum at many colleges and universities. On the other hand, application of phylogenetic methods to novel problems outside systematics is an area of special excitement, innovation, and controversy, and perspectives vary widely.

This Spring, for the fifteenth consecutive year, we will teach a workshop for graduate students interested in applying phylogenetic methods to diverse topics in biology. The one-week course is an intensive exploration of problems to which modern phylogenetic approaches are being applied and the most current statistical tools and approaches that are used to solve those problems. We cover a range of topics in ecology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. The course starts with recent advances in phylogenetic methodology, and then focuses on methods and tools that can be brought to bear on these "applied" issues in the context of a given phylogeny.

The course will be held at the Bodega Marine Laboratory on the Northern California coast, which has on-site housing. Our newly increased bandwidth and access to computing clusters allows us to utilize computer-intensive approaches even in a one-week course. The course format will involve equal parts of lecture, discussion, and hands-on software training. One afternoon during the week will be left free for field trips to local natural areas.

Topics Covered

* Estimating, evaluating and interpreting phylogenetic trees

* Recent advances in Bayesian and Maximum-likelihood estimation of phylogeny

* Estimation of species trees, gene-tree/species-tree conflicts

* Divergence-time estimation from sequence data: relaxed clocks, fossil calibration

* Analysis of character evolution: maximum likelihood and Bayesian approaches, ancestral-state estimation, rates of trait evolution

* Analysis of morphological form, function of complex character systems

* Inference of diversification rates: detecting rate shifts, testing key innovation hypotheses

* Model specification issues: model selection, adequacy and uncertainty

* Diagnosing MCMC performance

Instructors for the 2014 workshop

* Jeremy Brown

* Jonathan Eisen

* Rich Glor

* Tracy Heath

* Mark Holder

* John Huelsenbeck

* Sarah Longo

* Luke Mahler

* Mike May

* Brian Moore

* Samantha Price

* Bruce Rannala

* Bob Thomson

* Peter Wainwright

Prerequisites

Available housing limits course enrollment to ˜30 students. Preference is given to doctoral candidates who are in the early to middle stages of their thesis research, and who have completed sufficient prerequisites (through previous coursework or research experience) to provide some familiarity with phylogenetic methods. Unfortunately, because of limits on class size, postdocs and faculty are discouraged from applying.

Admission and Fees

Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is $700. This includes room and board at BML for duration of the course (arriving March 8, leaving March 15) and transportation from Davis to

Application Deadline

Applications are due by JANUARY 6, 2014 (NB: This is an extended deadline) . Please send a completed application form and one letter of recommendation from your major advisor. Applications should be sent via email as PDFs to mikeryanmay@gmail.com. Students will be notified via e-mail by January 10, 2014 of acceptance.

Application Forms and Information

Visit the Bodega website to for additional information and to submit an online application form.

Send all inquiries to:

Mike May Department of Evolution and Ecology 5343 Storer Hall University of California Davis Davis, CA 95616

email: mikeryanmay@gmail.com

“Brian R. Moore” <brianmoore@ucdavis.edu>

Borneo AntEvolution Jul21-31

ANT COURSE 2014 Borneo - Maliau Basin (July 21-31, 2014)

http://research.calacademy.org/ent/courses/ant IMPORTANT DATES APPLICATION DEADLINE: APRIL 1, 2014 July 20 participants arrive in Kota Kinabalu July 21 Depart Kota Kinabalu: 6-8 hour bus ride to Maliau Basin July 31 Depart Maliau Basin to Kota Kinabalu

COURSE OBJECTIVES “ANT COURSE is designed for systematists, ecologists, behaviorists, conservation biologists, and other biologists whose research requires a greater understanding of ant taxonomy and field techniques. In 2014, emphasis is on the identification of the ant genera and species occurring in the Asian tropics. Lectures will include background information on the ecology, life histories and evolution of ants. Field trips emphasize collecting and sampling techniques, and associated lab work focuses specimen preparation, sorting and labeling. Information on equipment, literature, and myrmecological contacts are also presented.

COURSE SIGNIFICANCE ”Ant Course is a unique opportunity to acquire training that is unavailable else-

where. This course will provide students with 1) the confidence and skills to identify Southeast Asian tropical ant genera; 2) an understanding of modern specimen processing and curation techniques; 3) an appreciation for the biological diversity of ants; and 4) experience keying to the species level.

Application link: https://-docs.google.com/a/fieldmuseum.org/forms/d/-1Z5Fu8DHxqW5EGFkiLbxi4mHWpnc2Tn0vzmN5ctvXj1g/-viewform SPONSORED BY "California Academy of Sciences and The Arthur Lawrence Green Memorial Fund, Museum of Comparative Zoology, Harvard University

LOCATION "ANT COURSE will be based at the Maliau Basin Studies Centre in in Sabah, Malaysia. The Centre is part of the Maliau Basin Conservation Area that includes 12 forest types, comprising mainly lower montane forest dominated by Agathis trees, montane heath forest and lowland, and hill diperocarp forest.

PARTICIPANT ACCEPTANCE CRITERIA "ANT COURSE is open to all interested individuals, including students, professors and motivated amateurs (citizen scientists). Priority will be given to those students for whom the course will have a significant impact on their research with ants. We aim to include students with a diverse interest in biology, including ant systematics, ecology, behavioral biology, genetics, and conservation. An entomological background is not required. The high instructor to student ratio will allow students to receive individual attention. ANT COURSE is presented in English and limited to 30 participants.

COSTS "Course fees for the 10-day COURSE are $975 for current students (undergraduate and graduate) and $1275 for non-students (postdocs and professionals). Transportation costs between home and Koto Kinabalu, and hotel fees in Kota Kinabalu are to be borne by all participants. Pay course fees by July 1 at: https://-www.calacademy.org/tickets/ant_course/ . FELLOWSHIPS "Those interested in attending the course should seek all possible avenues to secure funding on their own for the course. Each year we strive to raise funds to support a few students by offering discounted tuition fees. You should only apply for the Ant Course fellowship if you cannot find other support and it is essential for your participation in the course. Please notify the course if your funding request status changes before the application due date.

COURSE APPLICATION "Application and course information at http://-www.antweb.org. The first step is to fill out a form at: https://docs.google.com/forms/d/-1Z5Fu8DHxqW5EGFkiLbxi4mHWpnc2Tn0vzmN5ctvXj1g/-viewform Note this form requires a short statement of your research interests and future plans and a statement of your reasons for wishing to participate in the course. Also requires is one letter of reference from a professor or colleague familiar with your work to be submitted by the referee at:

ANT COURSE is limited to 30 participants. Selection of participants will be carried out by committee, based on your reasons for wishing to take the course at this time. Priority will be given to those students for whom the course will have a significant impact on their research with ants. Because the Course is offered yearly, and because many well-qualified candidates are not accepted because of limited capacity, we urge applicants not selected for this session to apply again the following year.

2014 INSTRUCTORS Brian Fisher (Coordinator), Leeanne Alsonso, Himender Bharti, Katsuyuki Eguchi, Flavia Esteves, Brian Fisher, Benoit GueInard, Roberto Keller, Laurent Keller,

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

CostaRica ConservationGenetics May24-Jun3 reminder

Hello all,

I wanted to send out a reminder of CONSERVATION GENETICS, an upcoming graduate-level 2.0 credit specialty course which will be taught by Dr. Jim Hamrick (University of Georgia), Dr. Fred Allendorf (University of Montana), and Dr. Erick Fuchs (University of Costa Rica) in Costa Rica from MAY 24 TO JUNE 8, 2014. This course may be of interest to students in various departments and interdisciplinary programs at your institutions. Topics covered include: measurement of genetic diversity and genetic structure, phylogeography, application of molecular data to taxonomic questions, gene flow, mating systems, effective population size estimates, and the application of genetic information for the management and restoration of disturbed landscapes. Your circulation of this material among graduate students would be greatly appreciated.

Application deadline is February 3.

Official Course announcement [1] http://bit.ly/-13AeiZC

Many thanks!

Andres S.

Andres Santana <andres.santana@ots.ac.cr>

Debrecen Hungary EvolutionBehaviour Feb7-8 2

THE EVOLUTIONARY SIGNIFICANCE OF CONSISTENT BEHAVIORAL VARIATION

Workshop in Debrecen, Hungary; 7-8 February 2014 The deadline for applications is January 20, 2014.

We are organising a workshop to stimulate a discussion about how the concepts of animal personality and behavioral syndromes changed the ways we think about the evolution of behaviors, and how these phenomena shed new lights on key theories of natural and sexual selection.

Invited speakers will include

- Professor Niels Dingemanse (Max Planck Institute for Ornithology) - Dr. Laszlo Garamszegi (Department of Evolutionary Ecology Estacion Biologica de Donana-CSIC) - Professor Jaap M. Koolhaas (Dept. of Behavioral Physiology, University of Groningen) - Professor Andy Sih (University of California at Davis)

Postgraduate students and post-docs are encouraged to give a 10 min talk followed by 5 min discussion.

For further information and to register please visit: < http://zoology.unideb.hu/evolpers/ >

Best regards

Zoltan Barta and Laszlo Garamszegi Zoltan Barta MTA-DE "Lendület" Behavioural Ecology Research Group Department of Evolutionary Zoology, University of Debrecen, Debrecen, Egyetem ter 1., 4032, Hungary Phone: +36 52 316 666 ext. 62334 | Fax: +36 52 512 941 E-mail: barta.zoltan@science.unideb.hu | http://web.unideb.hu/˜zbarta/ Enikõ Gyuris MTA-DE "Lendület" Behavioural Ecology Research Group Department of Evolutionary Zoology University of Debrecen H-4010 Debrecen, Egyetem tér 1. Phone: +36 52 512-900 ext. 62348 E-mail: eniko.gyuris@gmail.com < http://zoology.unideb.hu/?m=Enik%C5%91_Gyuris >

Enikõ Gyuris <eniko.gyuris@gmail.com>

EastTennesseeStateU LakeBaikal Jul10-30

Field trip: Lake Baikal, Siberia, Russia. July 2014.

Tentative dates July 10V30, 2014.

East Tennessee State University is offering a field trip to Lake Baikal in Siberia as a part of the university's Study Abroad program. Lake Baikal is the deepest, the largest and the oldest lake on Earth. It contains 20% of all unfrozen freshwater on earth (close to Great Lakes combined) and is home to hundreds of endemic animal species. Trip participants will take BiodiversityHotspots course (2 credits) V a course focusing on origins and evolution of endemic adaptive radiations. Lake Baikal, often called the Natures laboratory, will be used as a splendid illustration for the course's main ideas. Learn field limnology techniques and biodiversity analysis methods at one of the most remote, exciting and beautiful lakes on Earth. The trip will include a week-long stay at a field station on the shores of the lake, a 5-day trip around the lake on a research vessel and 2 days stay in Moscow and St.Petersburg.

Faculty leaders: L. Yampolsky, Associate Professor, Department of Biological Sciences and Joe Bidwell, Professor and Chair, Department of Biological Sciences.

The trip is open to any students, however only regular ETSU undergraduates are eligible for financial aid. To apply please contact L. Yampolsky, yampolsk@etsu.edu, 423-439-4359 office, 423-676-7489 cell. Spaces are limited. Deadline for application is February 17. Must have a valid passport by April 1. Cost estimate: airfare - $2100, program fees including tuition - $2900.

More at:

http://faculty.etsu.edu/yampolsk/Baikal2014.htm https://www.facebook.com/LakeBaikal2014 Lev Yampolsky

Associate Professor Department of Biological Sciences East Tennessee State University Johnson City TN 37614-1710 G-phone 646-926-7657 (646-YAMPOLS) Office/lab 423-439-4359 Fax 423-439-5958

"Yampolsky, Lev" <YAMPOLSK@mail.etsu.edu>

Guarda Switzerland Evolution Jun14-21

RE: PhD and master students workshop: Evolutionary Biology in Guarda, Switzerland

It my pleasure to announce this years Guarda workshop in Evolutionary Biology for master and PhD students. The main aim of the course is to develop the skills to produce an independent research project in evolutionary biology.

The course takes place 14. - 21. June 2014 in the Swiss mountain village Guarda. Faculty includes Joan Strassmann (Washington University in St. Louis, USA), David Queller (Washington University in St. Louis, USA), Sebastian Bonhoeffer (ETH-Zurich, Switzerland) and Dieter Ebert (Basel University, Switzerland)(organizer).

The course is intended for master students and early PhD students with a keen interest in evolutionary biology.

The web page with all the details can be found under: http://www.evolution.unibas.ch/teaching/guarda/-index.htm Application is open now. Deadline is 17. February 2014.

Please communicate this information to interested students.

With best wishes,

dieter ebert

Dieter Ebert University of Basel, Zoological Institute, Vesalgasse 1, 4051 Basel, Switzerland Tel. +41 (0)61 267 03 60

dieter.ebert@unibas.ch

HarvardU PlantSystematics Jun9-20

Dear Colleagues,

Back by popular demand! Plant Morphology: Linking Phenotype to Development, will be taught by Peter Endress (University of Zurich) and Pamela Diggle (University of Connecticut) June 9-20, 2014, at the Arnold Arboretum of Harvard University. Registration is now open.

This is an intensive two-week laboratory and lecture course for advanced undergraduates, graduate students, and postdoctoral fellows that will cover the fundamental principles of plant form, focusing on developmental dynamics, evolutionary diversification, and ecological and physiological function. The course will provide a critical foundation for research in developmental genetics, systematics, physiology, and more. Detailed information is below.

Please bring this course to the attention of your students and post docs!!

Best wishes,

Pamela Diggle, Peter Endress and William (Ned) Friedman

Plant Morphology: Linking Phenotype to Development, June 9 - 20, 2014

With the opportunity to bring molecular genetic and genomic tools to almost any clade of plants, a key challenge will be to link comparative developmental genetics to existing bodies of knowledge; notably the two hundred year legacy of comparative developmental morphology. This integration is critical as the phylogenetic, structural, and ecological breadth of plant taxa open to study expands, and the sophistication of potential questions increases in complexity. This course will provide vital analytical tools central to understanding the developmental bases for structural and functional diversity. Summer courses in organismic plant biology at the Arnold Arboretum of Harvard University bring world-class faculty and a world-class living collection together to enable students from around the world to know the phenotype.

In 2014, Plant Morphology: Linking Phenotype to Development, an intensive two-week laboratory and lecture course for advanced undergraduates, graduate students, and postdoctoral fellows will cover the fundamental principles of plant form, focusing on developmental dynamics, evolutionary diversification, and ecological and physiological function. Students will be presented with the conceptual and analytical tools necessary to interpret the vast array of morphologies that exist among plants. Professors Pamela Diggle (University of Colorado) and Peter Endress (University of Zurich) will serve as the instructors. This course is limited to 12 students.

To apply: please go to http://arboretum.harvard.edu/-education/plant-morphology-linking-phenotype-to-development/ Costs: Each student will receive a

travel stipend of up to $500; meals and dormitory lodging will be provided for all participants.

Topics covered:

Week 1: Vegetative morphology including embryogenesis and establishment of the basic body plan, modes of germination and establishment, concepts of juvenile and adult phases, phyllotaxy, shoot longitudinal symmetry (including heteroblasty), axis thickening, shoot transectional symmetry, branching, structural and functional specialization of shoot branches, leaf development, leaf lateral and longitudinal symmetry, structural and functional specialization of leaves, root development, structural and functional specialization of roots, plant architecture, evo-devo.

Saturday and Sunday will involve tours of the living collections of the Arnold Arboretum and opportunities to explore the Boston area.

Week 2: Reproductive morphology including inflorescence and flower structure, branching patterns and other features of inflorescences, flower organization and architecture, flower development, phyllotaxy and symmetry, organs of the perianth, androecium and gynoecium, synorganization of floral organs, angiosperm flower diversity, flowers of ?basal? angiosperms, monocots, eudicots, the most complex flowers (orchids, asclepiads), structural solutions of functional constraints in reproductive biology, evolutionary trends in flowers.

For additional information contact Pamela Diggle: pamela.diggle@uconn.edu

Pamela Diggle

Professor Department of Ecology and Evolutionary Biology University of Connecticut

pamela.diggle@uconn.edu

KualaLumpur Malaysia GMOD Workshop Feb26-28

website: http://gmod.org/wiki/GMOD_Malaysia_2014 GMOD Malaysia 2014 offers an introduction to, and training in, the bioinformatics software offered by the Generic Model Organism Database project (http://-gmod.org). Over three days, participants will learn about GMOD's free, open-source tools for visualising, storing, and disseminating genetic and genomic data. These include:

*Galaxy analysis pipeline *GBrowse and JBrowse genome browsers *InterMine data warehouse *MAKER and MAKER-P genome annotation pipelines *Tripal website generator and database interface *Chado database schema

Tuition is by experienced instructors and developers with deep knowledge of the tools and their applications. By the end of the course, participants will have hands-on experience of setting up and using core components needed for a modern genomics project.

The workshop follows the Plant Genomics Congress, and will include material of particular interest to plant scientists.

More information: http://gmod.org/wiki/-GMOD_Malaysia_2014 Questions: help@gmod.org

Thanks!

Amelia Ireland GMOD Community Support Generic Model Organism Database project http://gmod.org || @gmodproject

amelia.ireland@gmod.org

LaKretzFieldStation ConservationGenomics Mar22-27

UCLA/La Kretz Workshop in Conservation Genomics, 22-27 March, 2014

Conservation biology and genetics have had a long and intimate relationship, and constitute one of the key applications of evolutionary analysis to real-world biological problems. The impacts of population genetics, phylogenetics and phylogeography have been particularly striking for conservation biology, and have helped solve some of the most pressing problems in biological conservation.

As the field of landscape-based genetics continues to grow and mature, the increasing availability of genomic-level data, analytical models and methods stand to make profound new contributions to our ability to identify and protect at-risk populations and recover those that are most endangered. However, genomic level analyses also carry a heavy burdenXdata sets are enormous and often require diverse computational approaches for assembly, quality control and analysis.

This annual workshop provides a comfortable, informal training environment for a small group of motivated

graduate students to explore how conservation problems can best be addressed with genomic-level data. Our goal is to provide hands-on experience on the efficient collection, troubleshooting, and analysis of large, genome-level data sets for conservation-relevant problems. One of the highlights of our workshop is active participation from members of several US government agencies who are at the forefront of endangered species protection and management, providing a forum for exploring the most relevant aspects of conservation genomics to managers.

The UCLA/La Kretz workshop is held at the La Kretz Field Station and the Stunt Ranch Reserve, both located a few miles apart in the heart of the Santa Monica Mountains. Only 30 miles from UCLA (and LAX airport), but nestled in the relatively undeveloped 160,000 acre Santa Monica Mountains National Recreation Area, these two venues provide an ideal location to bring exciting new developments in genomic science and pressing needs in conservation and management together in a single workshop. Our current instructor list, drawn from UCLA, UC Davis, and UC Berkeley includes:

Mike Alfaro Gideon Bradburd Brant Faircloth Evan McCartney-Melstad Kirk Lohmueller Mark Phuong Brad Shaffer Victoria Sork Phil Spinks Ian Wang Bob Wayne

Participants from USGS, USFWS, and the US National Park Service

Topics covered include:

Traditional conservation genetics

Next generation platforms: the best tool for the job

Data management pipelines:

Quality Control

Data storage

Data organization

Data analysis:

SNPs

Sequences

Exploring very large data sets

Functional genomic data

Genomic data and GIS

Conservation phylogenomics

Prerequisites Available housing limits course enrollment to ˜15 students. Preference is given to doctoral candidates who are in the early to middle stages of their thesis research, and who have completed sufficient prerequisites (through previous coursework or research experience) to have some familiarity with using a command line interface or programming languages (i.e. Perl, python etc.). Postdocs and faculty are welcome to apply, but our first priority is to graduate student applicants.

Admission and Fees Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is $400. This includes food and lodging at the La Kretz Field Station, transportation to and from UCLA to the venue, and any incidental fees for the duration of the course (arriving March 22, departing March 27).

Application Forms and Information

Visit the La Kretz Center for California Conservation Science website for additional information and to download an application form:

http://www.environment.ucla.edu/media/files/2014-La-Kretz-Conservation-Genomics-Application-0h-etl.docx

Application Deadline

Applications are due by January 17, 2014. Please send a completed application form and one letter of recommendation from your major advisor. Students will be notified via e-mail by January 24, 2014 of acceptance.

Applications should be sent as PDFs, with your name in the title, via email to:

Phil Spinks email: pqspinks@ucla.edu

Phillip Spinks <pqspinks@ucla.edu>

LasCruces NM GeneFamilies May12-13

We are pleased to announce a free gene family workshop May 12-13, 2014 in Las Cruces, NM. This NSF-funded free gene family workshop is open to all interested participants, local, at American universities and at international universities with registration. Due to room capacity reasons, the meeting size will be capped at 40. This is an opportunity to listen to lectures and subsequently, have hands-on experience with lecturers in analyzing your own gene family dataset. We hope you will join us.

Speakers include: -Laura Kubatko (Ohio State Univer-

sity) -Jim Leebens-Mack (University of Georgia) -Liang Liu (University of Georgia) -David Liberles (University of Wyoming)

http://odyssey.bioinformatics.uga.edu/ ˜ lliu/confr/-index.php David Liberles (with Liang Liu and Enrico Pontelli (local organizer))

David Liberles <liberles@uwyo.edu>

Leipzig Biodiversity CallProposals

sDiv, the Synthesis centre for Biodiversity Sciences (www.idiv.de/sdiv), a unit of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig herewith announces the 2nd call for workshops.

The submission deadline is 1st of April 2014.

You can find all relevant information here: http://-www.idiv.de/sdiv/calls Please spread this announcement among your colleagues and networks.

Don't hesitate to contact me (marten.winter@idiv.de) for any questions.

Thanks a lot!

With best regards from sunny Leipzig

sMarten Winter

Dr. Marten Winter Scientific Coordinator / Wissenschaftlicher Koordinator Synthesis Centre for Biodiversity Sciences - sDiv

Phone +49(0)341-97-33129 Fax +49(0)341-97-39358 Email marten.winter@idiv.de

Homepage: http://www.idiv.de/sdiv/coordinator/-vcard_item_86429/detail German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Deutscher Platz 5e 04103 Leipzig

Germany iDiv ist ein Forschungszentrum der Deutschen Forschungsgemeinschaft (DFG). Es ist eine zentrale Einrichtung der Universität Leipzig im Sinne des §92 Abs. 1 SächsHSFG und wird zusammen mit der Martin-Luther-Universität Halle-Wittenberg, der Friedrich-Schiller-Universität Jena sowie dem Helmholtz-Zentrum für Umweltforschung (UFZ) betrieben. Sieben außeruniversitäre Einrichtungen unterstützen iDiv finanziell sowie durch ihre Expertise: das Max-Planck-Institut für Biogeochemie (MPI BGC), das Max-Planck-Institut für chemische Ökologie (MPI CE), das Max-Planck-Institut für evolutionäre Anthropologie (MPI EVA), das Leibniz-Institut Deutsche Sammlung von Mikroorganismen und Zellkulturen (DSMZ), das Leibniz-Institut für Pflanzenbiochemie (IPB), das Leibnitz-Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK) und das Leibniz-Institut Senckenberg Museum für Naturkunde Görlitz (SMNG). USt-IdNr. DE 141510383 and

Marten Winter <marten.winter@idiv.de>

Loches France ClimateAdaptation Jun10-14

Below is an announcement to be posted on EvolDir. This workshop might be of interest for evolutionary biologists interested in the response of organisms to climate change.

International workshop HETEROCLIM

The response of organisms to climate change in heterogeneous environments

10-14 June 2014, Loches, France

Deadline for applications : March 3rd, 2014.

See all information on : http://casas-lab.irbi.univ-tours.fr/heteroclim.html Past and ongoing global warming has dramatic impacts on ecological systems, including changes in species distributions and erosion of biodiversity. Very recently, scientists working on climate change biology realized that the environmental heterogeneity could be an important driver because, theoretically, organisms may move within local/regional spatial scales to find suitable microhabitats as climate is changing, buffering thereby the amplitude of global warming. Thermal environments are not only quite heterogeneous in the natural habitat for most species, but they are also extremely variable through time. Our general aim is to bring together leading scientists from various key disciplines to promote interconnections between their different expertise and skills, with the ambition to stimulate the emergence of new developments related to scale issues in thermal ecology and global change biology. The workshop involves 3 sessions:

- Connecting global and local climate change

- Thermal performance of organisms in fluctuating environments

- Modeling distribution of organisms in space and time

The workshop will bring together 21 key speakers on the topic (see web site), including an introductory talk given by Michael Angilletta (Arizona State University).

>>Application and registration

The workshop will involve up to 33 participants (in addition to the 21 invited speakers) who must present a poster during the dedicated session. The registration fee is 490 euro, which includes accommodation (4 nights), restaurant (breakfasts, lunches and dinners), transportation between the TGV train station (Saint Pierre des Corps) and the Luccotel, and finally the access to the workshop.

Applications are mandatory before registration because the number of participants is strictly limited. If we receive more than 33 applications, a selection will be made (see web site).

Ò How to apply: send an email (heteroclim@univ-tours.fr) including a brief CV and a short description of your current research. A tentative title of your poster should also be provided. The deadline for applications is March 3rd, 2014. Registration process will follow after participants have been selected.

For any inquiry, please contact us at: heteroclim@univ-tours.fr

The scientific committee : Dr. Sylvain Pincebourde (IRBI), Dr. Olivier Dangles (LEGS), Prof. Jérôme Casas (IRBI) & Prof. Brian Helmuth (Northeastern University).

Sylvain Pincebourde

Chargé de Recherche CNRS http://casas-lab.irbi.univ-tours.fr/pincebourde.html Institut de Recherche sur la Biologie de l'Insecte (IRBI) Université François Rabelais, CNRS, UMR 7261 Parc Grandmont 37200 Tours France

Phone : (33) 02 47 36 73 50 Fax : (33) 02 47 36 69 66

Sylvain Pincebourde <sylvain.pincebourde@univ-tours.fr>

Montreal PopulationGenetics May26-30 2

The 7th annual Montreal Spring School of Population Genomics and Genetic Epidemiology

May 26 to 30, 2014 Montreal, Canada

This workshop provides training in the rapidly developing disciplines of genetic epidemiology, human evolutionary genetics, population genomics and bioinformatics.

The training will be based on real-data examples from the instructors laboratories.

** For the most recent information and to register, please visit Our Web Site (http://-montrealspringschool.us6.list-manage1.com)

If you think you know someone who may be interested in this workshop, please forward this message and/or download the poster (http://-montrealspringschool.us6.list-manage.com) for display (also found on the home page of our web site). Thank you!

Gillian Greig, Coordinator, Montreal Spring School www.montrealspringschool.ca Montreal Spring School <montrealspringschool@gmail.com>

OhioStateU Phrapl ApproxLikelihoodSoftware May28-30

Phrapl Workshop Announcement

In this workshop, Brian O'Meara and Bryan Carstens introduce students to a new software package (PHRAPL) that implements phylogeographic inference using approximated likelihoods. PHRAPL will allow users to calculate the probability of a set of models given the data [pr(Mi|D)] so that an assessment can be made regarding which of these models is the most appropriate for their empirical system. PHRAPL employs a heuristic exploration of model space and returns approximated likelihoods of a set of models given the data, where each model consists of a delimited species tree and the parameters (such as gene flow, population size and rate of change) that are required to describe the history of divergence. Students will be introduced to basic probability theory, information theory and coalescent modeling. They will use/learn R functions, analyze their data using PHRAPL, and interpret the results. In addition, approaches to collecting phylogeographic data using next-generation sequencing will be discussed.

The workshop will occur at the Mathematical Biosciences Institute on the main campus of The Ohio

State University. The workshop will begin at 8:00 am on May 28th, and last until 12:00 pm on May 30th. Travel stipends are available for a dozen students. To apply, please see http://carstenslab.org.ohio-state.edu/OSU/phrapl_workshop.html for more information.

Bryan Carstens

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: http://carstenslab.org.ohio-state.edu/OSU/-Carstens_Lab.html blog: https://u.osu.edu/-carstens.12/ publications: http://carstenslab.org.ohio-state.edu/OSU/Publications.html spedeSTEM: http://spedestem.asc.ohio-state.edu/ skype: bryan_carstens office: 614.292.6587 cell: 734.474.8527 fax: 614.292.2030

Bryan Carstens <bryan.c.carstens@gmail.com>

OxfordU EvoDevo SummerSchool Aug3-9

Dear all,

Just a reminder that the application deadline for the Eco Evo Devo Postgraduate Summer School here in Oxford (August 3rd to 9th) is on January 31st.

Please pass on this reminder to any of your colleagues, postdocs or students who are interested in applying.

Thanks to further generous sponsorship we have been able to reduce the cost - please see the website for details:

http://bms.brookes.ac.uk/ceec/eco-evo-devo-summer-2014 Just let me know us you have any questions or need more information?

Thanks and best wishes,

Alistair and Casper.

Dr. Alistair P. McGregor

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Prague BeetleSystematics Jul

Course on World Beetle Systematics, Prague, July 2014. For details see:

http://fle.czu.cz/ ˜ ruzickajan/-Systematics_of_beetles/index.html Elena Hilario <Elena.Hilario@plantandfood.co.nz>

SCENE Scotland Morphometrics May12-15

Course outline and details;

A geometric morphometric course will be taking place at the Scottish Center for Ecology and the Natural Environment (SCENE), from the 12th-15th May, 2014. Details of SCENE can be found using the link below http://www.gla.ac.uk/researchinstitutes/bahcm/-researchfacilitiesgroups/scene/ Prof. Chris Kligenberg will be delivering the course, Chris is a professor at Manchester University and designed/wrote the software morphoJ (http://www.flywings.org.uk/-MorphoJ_page.htm) and specialises in geometric morphometrics and analysing evolutionary data sets based on shape change. The software is used a lot in in plant biology, evolutionary biology, functional morphology palaeontology, etc. and can really be applied to many different fields. It allows comparison of shapes, images, structures in either two or three dimensions. This type of analysis is well suited to analysing evolutionary and functional morphology data, population

dynamics, anything that can be compared using shape or physical characteristics.

The course will take participants through the complete process involved with preparing and analysing shape data. There will be a background explaining the history and principles behind geometric morphometrics. It will cover the basics of data acquisition and the most productive method to digitise landmarks using software TPSdig and TPSutil as well as others. Cover in detail how to extract and visualise shape changes from your images. Identify where variation is in your samples using Principle Component Analysis, how to export, for example PC scores to be analysed further in, for example, R. Compare the amount of variation between groups using Discriminant Function and Canonical Variance Analysis). How covariation, using regression, can be used to size correct data i.e. to remove the effect of allometry or unwanted shape variation. Modularity, Partial Least Squares and mapping shape change with phylogeny (to compare across species/families) will also be covered before a final overview of how these different types of analysis can be used to answer hypothesis.

The course is delivered to participants by working through exercises and examples which specifically give good insight as to how you might answer or formulate questions about your own data so is both lecture style and practical.

The course is 4 days long (Monday 12th - Thursday 15th May, 2014, 9:30 - 18:30 (approx. 8 teaching hours). There are 20-24 spaces on the course (to be confirmed) which costs Â£375 (stand alone) or with meals, refreshments and accommodation (arrival Sunday 11th in the pm and departure Friday 16th in the am) Â£575.

I have attended this this course so if you have any questions as to what is covered then please email me or my telephone number is at the bottom of the email.

Oliver Hooker PhD research student University of Glasgow

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Sicily SystemsBiology Jun15-19

Call for Participation (apologies for multiple copies)

Synthetic and Systems Biology Summer School: Biology meets Engineering and Computer Science Taormina - Sicily, Italy, June 15-19, 2014

http://www.taosciences.it/ssbss2014/ ssbss2014@dmi.unict.it

Application Deadline: February 15 2014

List of Speakers Uri Alon, Weizmann Institute of Science, Israel Jef Boeke, Johns Hopkins University, USA Jason Chin, MRC Laboratory of Molecular Biology, UK Virginia Cornish, Columbia University, USA Angela DePace, Harvard University, USA Paul Freemont, Imperial College London, UK Tanja Kortemme, University of California San Francisco, USA Giuseppe Nicosia, University of Catania, Italy Sven Panke, ETH, Switzerland Rahul Sarpeshkar, MIT, USA Giovanni Stracquadanio, Johns Hopkins University, USA Ron Weiss, MIT, USA

School Directors Jef Boeke, Johns Hopkins University, USA Giuseppe Nicosia, University of Catania, Italy Mario Pavone, University of Catania, Italy Giovanni Stracquadanio, Johns Hopkins University, USA

Short Talk and Poster Submission Students may submit a research abstract for presentation. School directors will review the abstracts and will recommend for poster or short-oral presentation. Abstract should be submitted by February 15, 2014. The abstracts will be published on the electronic hands-out material of the summer school. ssbss2014@dmi.unict.it

Co-located Event: The 3rd International Synthetic Yeast Genome (Sc2.0) Meeting will be held in Taormina Friday June 20, 2014

cfp.ssbss2014@dmi.unict.it

Spain NetworkTools Jul14-18

Dear colleagues:

Registration is open for the course "NETWORK TOOLS IN BIOSCIENCES". Webpage: http://-/www.transmittingscience.org/courses/syst-bio/-networks/ INSTRUCTORS: Dr. Diego Rasskin-Gutman (Institut Cavanilles de Biodiversitat i Biologia Evolutiva, Spain) and Dr. Borja Esteve-Altava (Institut Cavanilles de Biodiversitat i Biologia Evolutiva, Spain).

DATES: July 14-18, 2014. 34 teaching hours.

PLACE: Facilities of the Centre de Restauració i Interpretació de Els Hostalets de Pierola, Els hostalets de Pierola, Barcelona (Spain).

Many features and processes of biological systems can be well represented by networks of interacting elements. In the last decades, network analysis has provided new insights into the organization and functioning of complex biological systems such as brain wiring, genetic regulation, or ecological dynamics. A basic knowledge on network modelling and network analysis will provide biologists a better understanding of cutting-edge research in their fields. This course will introduce participants into the analysis of complex biological systems using network models. Students will learn the basics of network analysis: gathering information, building network models, and interpret the outcomes of their analysis. This course combines theoretical introduction and computing practices using the free software environment R. Previous knowledge in R is not required. Participants are encouraged to bring their own data for practicing. Emphasis is placed on offering participants a wide overview of network modelling in biology and the many available software tools to do it.

Organized by: Transmitting Science, the Institut Catalá de Paleontologia Miquel Crusafont and Centre de Restauració i Interpretació de Els Hostalets de Pierola.

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban Trivigno, PhD. Course Director soledad.esteban@transmittingscience.org Transmitting Science < http://www.transmittingscience.org/ >

Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.org>

Tromso Norway DNA Metabarcoding Mar31-Apr5 REMINDER

Dear colleague,

I would like to wish you a happy new year and to remind you that the deadline for registering to the DNA metabarcoding spring school is the next Sunday.

Best regards

Eric Coissac

Registration deadline is 12 January 2014

DNA metabarcoding is a rapidly evolving method for assessing biodiversity from environmental DNA. It has a wide range of applications: biodiversity monitoring, animal diet assessment, reconstruction of paleo communities, among others. DNA metabarcoding relies on molecular techniques such as PCR and next generation sequencing, and requires bioinformatics and biostatistics competence to analyze sequencing results. This approach integrates several scientific areas and requires a broad range of skills, in addition to the classical ecological knowledge related to the considered research topic.

The DNA metabarcoding spring school is now in its third edition and this year it is co-organized by the metabarcoding.org team and the Research School in Biosystematics - ForBio in Tromsø, Norway. Also this year, the school is divided into two parts.

- The DNA metabarcoding spring school (31 March - 3 April 2014), that will be held during four days at the Skibotn Field Station, - A two-day workshop at the Tromsø University Museum that will follow the course (4 - 5 April 2014). Participants can register for both the school and workshop (25 places) or only for the workshop (no limit). To register for University of Tromsø ECTS (BIO-8001 registration form) or a ForBio course certificate stating the number of ECTS (no additional registration needed), participants have to attend both the school and the workshop. As part of the course program, each participant is required to (i) give a 12 minute talk about their research during the evening sessions of the school, and (ii) present a corresponding poster during the workshop.

Registration Registration deadline is 12 January 2014 This year the registration to the third DNA metabarcoding spring school is a two steps process.

- You need to be a ForBio member or associate. - Anyone can register as a ForBio associate. To register as a ForBio associate please visit the ForBio membership page - To become a ForBio member you must be registered as a PhD student or hired as a postdoctoral fellow at a Norwegian, Swedish, Danish, or Finnish university. - Now that you have a ForBio status (member or associate) you have to register to the school and/or the workshop itself by filling out the registration page.

All participants attending both the school and workshop can receive a ForBio course certificate stating the course description and number of ECTS earned (2 in this case). If you would like to receive University of Tromsø ECTS (2) instead of a ForBio course certificate, please feel out the BIO-8001 registration

form and follow the submission instructions on it. If you have any questions about University of Tromsø registration, please contact Sergei Drovetski (sdrovetski@gmail.com).

For more information go to : http://-metabarcoding.org/spip.php?article66 or on the registration website : http://www.forbio.uio.no/-events/courses/2014/metabarcoding_workshop.html

Dr Eric Coissac Associate professor Laboratoire d'Ecologie Alpine UMR CNRS-UJF 5553 / UMR CNRS 5553 Université J. Fourier Domaine de Saint Martin d'Hères 2233, rue de la piscine Bât. D Biologgie BP 53, 38041 Grenoble Cedex 9 France

Eric.Coissac@inria.fr

Tromso Norway DNA metabarcoding Apr4-5

Dear Colleagues,

Thank you for your application to the DNA metabarcoding spring school in Tromsø. Registration for this event is now closed. This year this school is followed by a two days workshop the friday 4th and saturday 5th of April. The registration date for this second event is extended until February 20, 2014.

The workshop is divided in four half days. Each of them introduced by a keynote lecture.

- Friday morning : Douglas Yu University of East Anglia - UK, Kunming Institute of Zoology - China - Reliable, verifiable, and efficient monitoring of biodiversity via metabarcoding

- Friday afternoon : Pierre Taberlet LECA - Grenoble University - CNRS - France - DNA metabarcoding and palaeoenvironments

- Saturday Morning : Xin Zhou - BGI - China - Moving from COI metabarcoding to mitochondrial metabarcoding. - Keynote 4 : Anthony Chariton - CSIRO - Australia - Saltwater inundation in Kakadu Nation Park: can ecogenomics assist in the management of sea-level rise?

In addition to these lectures 6 short talks of 15min are planned by half days, you are kindly invited to submit abstracts if you are interested in presenting your DNA metabarcoding results during this event.

There is no registration fee for this workshop, but registration is mandatory. To register, please send an email to the workshop organizers:

Drovetski, Sergei V. : serguei.drovetski@uit.no

http://metabarcoding.org/spip.php?article66 http://-metabarcoding2014.weebly.com/registration.html All the best,

Eric Coissac

Dr Eric Coissac Associate professor Laboratoire d'Ecologie Alpine UMR CNRS-UJF 5553 / UMR CNRS 5553 Université J. Fourier Domaine de Saint Martin d'Hères 2233, rue de la piscine Bât. D Biologgie BP 53, 38041 Grenoble Cedex 9 France

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Umea Sweden Networks May19-23

We would like to announce the "Workshop on Networks in Ecology".

Networks in Ecology is a week long interdisciplinary workshop combining network science, dynamical systems and ecology. The expected audience is master and PhD students, and post-doctoral researchers. The program is composed of lectures on the relevant topics and a number of open discussions and brain-storming sessions. Participants are expected to bring open problems within the topics of the workshop. A number of these open problems will be selected in the first day and teams will work during the week aiming for a concrete research plan. Groups will be mentored by senior researchers. Participants will also have the opportunity to present a talk and/or posters about his/her own research.

Lecturers Anna Eklöf, Linköping University, Sweden Phillip Staniczenko, University College London, England Samraat Pawar, Imperial College, England Serguei Saavedra, Estación Biológica de Doñana, Spain Martin Rosvall, Umeå University, Sweden Xavier Thibert-Plante, Umeå University, Sweden

The workshop takes place at the Marine research station in Norrbyn 40 km south of Umeå, northern Sweden, during the spring (May 19 - 23) 2014. Registration can me made through the website until March 10.

Further information about the workshop can be found at the web page http://tdn2013.wix.com/econetor through the email magnus.lindh@math.umu.se

Cordially,

Magnus Lindh Luis E C Rocha Fariba Karimi

Sponsors: Integrated Science Lab (IceLab) and Ecosystem Change Group, Umea University, Sweden

xavier@thibert-plante.com

Uppsala ConGenOmics Mar18-20

Uppsala, Sweden: 18-20 March, 2014

European Science Foundation Workshop in Conservation Genomics: "Academic exercise or transition with real-world implications"

Among the tenets of conservation biology is the preservation of genetic diversity. Numerous tools and methods have been developed in this regard, and the field of conservation genetics is actively engaged in using genetic marker data to inform decision makers. For this workshop, we will explore the transition of the field to genome-scale data with an eye on the impact to conservation practice.

We will have presentations from 12 of the leading experts in conservation and genomics (http://-www.ebc.uu.se/Research/IEG/evbiol/congenomics/-speakers/).

Discussion groups form an integral part of the workshop such that we have restricted the number of delegates to a manageable unit (<50). We ask that all interested partipants submit a short abstract (<500 words) detailing their research interests and motivation for attending the workshop. Please include your name, position and affiliation. Submit via email to Aaron Shafer (aaron.shafer@ebc.uu.se). Note that the selected students will have their workshop fees waived.

Please visit http://www.ebc.uu.se/Research/IEG/-evbiol/congenomics/ for additional workshop information.

Organizers,

Aaron Shafer Jochen Wolf

Aaron B.A. Shafer Wenner-Gren Postdoctoral Fellow Uppsala University Evolutionary Biology Centre Norbyvägen 18D SE-75236 Uppsala, Sweden https:/-/sites.google.com/site/shaferab/ +46 76 057 8013

aaron.shafer@ebc.uu.se

WestVirginia HaemosporidianParasiteEvolution Jul28-31

FIRST ANNOUNCEMENT

Third Annual International Workshop on Malaria and

Related Haemosporidian Parasites of Wildlife

Monday July 28th - Thursday July 31st, 2014

National Conservation Training Center, Shepherdstown, West Virginia

Sponsored by the NSF Research Coordination Network

for Haemosporida of Terrestrial Vertebrates1

Dear Colleagues,

The NSF-sponsored Research Coordination Network for Haemosporida of Terrestrial Vertebrates (MalariaRCN) is pleased to announce our third annual workshop on the malaria parasites and closely related haemosporidians of natural populations of vertebrates. The four day workshop will include both field and laboratory exercises as well as lectures and discussions led by RCN members2.

Topics to be covered throughout the workshop include vertebrate and invertebrate field capture techniques, blood sampling and preparation of blood smears, sample vouchering and preservation, parasite taxonomy, light microscopy for parasite identification and parasite and cell counts, sequence data analysis, and databasing. Discussion topics will include, but are not limited to, the basic biology, phylogenetics and systematics of Haemosporida, community ecology of parasites, coevolution and the evolution of virulence, and conservation and disease.

All food, lodging and workshop events will take place at the US Fish & Wildlife Service's National Conservation Training Center in Shepherdstown, West Virginia, a site easily accessible through Washington, D.C. area airports. The workshop will commence on Monday morning, July 28th, and continue through until the evening of Thursday, July 31st.

The workshop is geared towards graduate students, postdoctoral researchers, and other investigators new to the field of wildlife haemosporidians. We will be accepting applications in early 2014 and encourage individuals from outside the United States, particularly

from developing countries.

Applications will be available in early February 2014 through the RCN website. Workshop cost, accommodations, meals, and transportation from the Washington Dulles International Airport will be covered by the RCN grant for workshop participants. In addition, applications for travel funds will be considered. Additional information on the workshop including an overview of the four days of events will be provided with the Second Workshop Announcement as well as on the RCN website (we encourage you to register on the RCN website and become a member of the Malaria Research Coordination Network). In the meantime, further information can be obtained from the workshop organizers (email: MalariaRCNWorkshop@gmail.com).

1 The Research Coordination Network for Haemosporida of Terrestrial Vertebrates ("Malaria RCN"), sponsored by the U. S. National Science Foundation and funded through 2015 at the University of Missouri-St. Louis, was established to promote communication among researchers working on the ecology and evolution of haemosporidian parasites of vertebrate wildlife populations. Please visit the website for the network (www.malariarcn.org) for more information.

2 Workshop organizers and instructors include Robert Ricklefs (University of Missouri - St. Louis), Staffan Bensch (Lund University), Gediminas Valkiunas (Nature Research Center, Vilnius), Carter Atkinson (USGS), Susan Perkins (American Museum of Natural History), Robert Fleischer (Smithsonian Conservation Biology Institute), and Ellen Martinsen (Smithsonian Conservation Biology Institute). Other members of this RCN include Patricia Parker (University of Missouri - St. Louis), Ravinder Sehgal (San Francisco State University), Tom Smith (University of California, Los Angeles), and Robert Adlard (Queensland Museum).

**The workshop is likely to be of interest to evolutionary biologists as it will center around the systematics of a very successful and diverse group of parasites of natural vertebrate populations and include laboratory exercises involving phylogenetic analysis of parasite lineages and readings and discussions on the evolutionary history of the parasites including cospeciation of hosts and parasites as well as the evolution of virulence.

ellensarah.martinsen@gmail.com

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA

and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.