
E v o l D i r

March 1, 2013

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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AberystwythU Wales MarineEvolution May8-10

10th Marine Biological Association Postgraduate Con-

ference

REGISTRATION OPEN AND CALL FOR ABSTRACTS

Dear colleagues,

It is our pleasure to announce that the 10th Marine Biological Association Postgraduate Conference is to be held at Aberystwyth University, Wales, from 8-10th

May 2013.

The conference is aimed at PhD and Masters students but postdocs are also very welcome to attend. It is a fantastic opportunity for students to present their work in a friendly yet rigorous environment, and provides a superb opportunity for forging professional relationships that will last a career.

Registration is just £70 (including delegate fee, refreshments during the conference, conference dinner, tour of the National Library of Wales, and an optional field trip). There is plenty of affordable accommodation in the town and reduced travel tickets to Aberystwyth are available when booking in advance.

Registration and abstract submission is open now via our conference website <http://users.aber.ac.uk/~mpcstaff/index.html> You can also keep up to date with information on keynote speakers, important dates and more by like-ing us on Facebook and following us on Twitter:

www.facebook.com/AberMbaConference <https://twitter.com/MBAConference> Key dates to note are:

Registration deadline - 29th March 2013 Abstract deadline - 15th April 2013

All enquiries should be directed to: ibers-mba-conference@aber.ac.uk

We look forward to welcoming you to Aberystwyth in May!

hvw@aber.ac.uk

Amsterdam PlantGenomeEvolution Sep8-10

Plant Genome Evolution 2013 - Amsterdam, The Netherlands

Registration and abstract submission now open!

Submit your abstract before Monday, 29 April, 2013

More info: <http://www.plantgenomeevolution.com/> It is our pleasure to announce the second Current Opinion Conference on Plant Genome Evolution, to be held in Amsterdam, September 8-10th, 2013. We are delighted to be holding this (now biannual) event again after a very successful first meeting in 2011 where renowned plant researchers gave inspiring talks and where many discussed their latest research in the field.

For the 2013 meeting, which will be at least half a day longer, we are even more ambitious and are trying to put together an even more exciting program focused on plant genomes, natural variation, and systems biology, of course all with a strong emphasis on evolution and evolutionary aspects.

This meeting will be the unique opportunity to meet and discuss with colleagues, get updated on the newest developments and insights in plant genome evolution, and will provide unique possibilities to network and discuss collaborations. Also, we are delighted already that Prof. Doug Soltis (University of Florida, USA) has agreed to deliver the plenary lecture on Sunday, opening the meeting.

On behalf of the Conference Committee, Yves Van de Peer, Ghent University, Belgium J. Chris Pires, University of Missouri, USA Topic List

* (Novel) Genome Projects

* Genome evolution

* Gene and genome duplication

* Genomic views on hybridization, heterosis and speciation

* Genomic variation and population genomics

* Bioinformatics and Systems Biology

“Hoogstrate, Marije (ELS-AMS)”
<m.hoogstrate@elsevier.com>

AsilomarUSA AmSocNat Jan13-15 CallforProposals

Call for Symposium proposals:

American Society of Naturalists 2014 January meetings in Asilomar (Jan 13-15)

“21st Century Naturalists: integrating pattern and process in evolution and ecology to understand biological diversity”

The goal of the 2014 ASN meeting is to bring together a diverse array of biologists who might not normally encounter one another at their regular meetings, in a small conference that facilitates new conversations. We wish to create a setting where graduate students, postdocs, and faculty can carry out discussions that define new research directions for our disciplines, energize the ASN, integrate among biological disciplines, and fuse

theory, data, and new technologies.

We are seeking proposals for three symposia, one each afternoon, that address one or more of the following criteria:

- (i) represent the intellectual breadth of the society, including ecology and evolution, theory and empirical work.
- (ii) represent a novel synthesis of a topic or topics
- (iii) represent future directions of ASN, including defining the role of the society and “naturalists” in biology
- (iv) represent the diversity of ASN biologists: demographic, gender and cultural diversity

Each symposium will run from 1 PM until 5:30 PM with a half hour break in the middle, allowing time for eight speakers with 30 minutes each (talk and question time). Symposium proposals can suggest alternate structures including different time limits per speaker, discussion panels, et cetera.

To suggest a symposium:

Please send to the email address: amsocnaturalists@gmail.com with subject header “Symposium Proposal”

- 1) 1) a symposium title
- 2) 2) name and contact information of proposer(s)
- 3) 3) a statement describing the topic of the symposium, how it is timely and novel, and how it fits into the criteria above. The statement should be no more than 500 words.
- 4) 4) a list of speakers and titles. Most speakers should be confirmed in advance, and these should be noted.

Note: AAt present, ASN does not have funds to support travel or registration costs for symposium speakers.

The deadline for symposium proposals is March 30 2013.

systrauss@gmail.com

Barcelona EvolMulticellularity
Sep30-Oct1

ICREA CONFERENCE ON THE EVOLUTION OF MULTICELLULARITY BARCELONA, SPAIN SEPTEMBER 30 - OCTOBER 1, 2013

We are pleased to announce the ICREA Conference on the Evolution of Multicellularity to be held September 30th - October 1st, 2013, in Barcelona (Spain). The transition to multicellular life represents one of the most important events in the history of life. Yet, despite its significance, little is known about the mechanisms involved in this transition. In recent years, emerging data from various fields are providing new insights into this major evolutionary transition. With advances in theoretical, molecular/cell biology and genomics approaches, there is a clear need for further conversation and collaborative efforts between experimentalists and theoreticians. The ICREA Conference on the Evolution of Multicellularity will bring together researchers with diverse backgrounds with the goal of stimulating and fostering inter-disciplinary discussion and collaborations. The talks will be organized around six mini-symposia encompassing the major topics and approaches related to the evolution of multicellularity. The six symposia are: 1) Origins and mechanisms; 2) Development and Gene regulation; 3) Genomics approaches and insights; 4) Theoretical approaches; 5) Social Evolution; 6) Computational and synthetic approaches. For additional information and updates (including preliminary program, registration and abstract submission deadlines) please visit the Conference page at www.multicellularity2013.com/). Registration will open in March.

Invited speakers:

Douglas H. Erwin Philip Donoghue Andrew H. Knoll David C. Queller J. Mark Cock Stuart A. Newman Gregory J. Velicer Richard E. Michod Daniel Richter

Organizers:

Iñaki Ruiz-Trillo, Institut de Biologia Evolutiva (UPF-CSIC) Ricard V. Solé, Institut de Biologia Evolutiva (UPF-CSIC) Aurora Nedelcu, University of New Brunswick

Aurora M. Nedelcu University of New Brunswick Department of Biology PO Box 4400 Fredericton, NB Canada E3B 5A3 phone: (506) 458-7463

Aurora Nedelcu <anedelcu@unb.ca>

Bristol EvolParasitology Apr8-11

Dear All,

Abstract submission for the upcoming British Society

for Parasitology conference in Bristol (8-11th April) closes on the 28th Feb (talks) and 30th March (posters). We've got more evolution and ecology into the schedule than ever before, with sessions on:

Ecological interactions during infections - Jess Metcalfe

Life histories of hosts and parasites - Ken Wilson

Parasite and host behaviours - Frederick Thomas

Applying ecology and evolution - Angus Buckling

Parasite populations and communities - Andrew Read

Bridging scales in disease ecology - Katrina Lythgoe

Immune responses in an ecological context - Judi Allen

Molecular ecology of disease - John Jaenike

The meeting as a whole is very diverse and also includes sessions on: genomics, metabolomics and proteomics, Imaging parasites and their hosts, schistosomes, helminths, malaria, fish parasitology, food security, veterinary parasitology, leishmania and trypanosomes.

Registration and abstract submission are via the conference website - fees remain the same as last year - and travel awards are available for students:

<http://www.bsp.uk.net/news-and-events/bsp-events/-spring-meeting-2013/> Best wishes,

Sarah Reece & Jo Lello

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sarah.reece@ed.ac.uk

Cambridge England SyntheticBiologyConservation Apr9-11

How will synthetic biology and conservation shape the future of nature?

Synthetic biology promises to change the world in significant ways, yet it is largely unrecognized within the field of conservation. This conference will bring to-

gether the synthetic biology and the conservation practitioner communities to discuss the implications that synthetic biology may have for the natural world and conservation and develop new thinking and new strategies to cope with the potential challenges and opportunities.

April 9-11, 2013 Clare College Cambridge, England

Sessions: 1. What is synthetic biology and what does it have to do with conservation? 2. What is biodiversity and how might it be affected by synthetic biology? 3. The practice of conservation and how it might be affected by synthetic biology 4. Implications of synthetic biology for wider social and economic change relevant to future conservation 5. What aspects of synthetic biology should conservationists worry about and/or be excited about? And what areas of conservation should synthetic biologists worry about and/or be excited about? 6. The public landscape of synthetic biology and conservation - how can we move forward?

Speakers and Panelists will include representatives from: University of California, Berkeley Venter Institute Imperial College Cambridge University IUCN The Nature Conservancy Friends of the Earth EMBO ETC Group World Wildlife Fund Cambridge Conservation Initiative Stanford University Wildlife Conservation Society

For more information please visit www.wcs.org/-conservationandsyntheticbiology "Mace, Georgina" <g.mace@ucl.ac.uk>

Cambridge UK GMOD Community Meeting Apr5-6

Dear all,

Registration is now open for the Generic Model Organism Database (GMOD) Community Meeting, to be held on April 5-6 in Cambridge, UK.

The GMOD project provides free, open-source, interoperable software for annotating, visualizing, and storing genetic and genomic data. Popular components include GBrowse, JBrowse, InterMine, BioMart, Pathway Tools, MAKER, Chado, and many more.

Details of the meeting and links to the registration form are on the GMOD wiki at http://gmod.org/wiki/-April_2013_GMOD_meeting. If you are interested in presenting at the meeting, or would like to suggest a

topic for the agenda, please email the GMOD helpdesk at help@gmod.org.

Additionally, the GMOD community survey is still open, so if you use, develop, administer, provide, or otherwise come into contact with GMOD and its components, we would love to hear your thoughts. The survey should take no more than ten minutes, is completely anonymous, and you have the chance to win a genome profile from 23andMe (or an Amazon voucher) on completion. The survey results will be reviewed at the April meeting and will be used to help GMOD to better serve its community and direct future development of the project. The survey can be found at <http://gmod.org/survey.html>. Thank you all for your attention. If you have any questions, please feel free to contact me at amelia.ireland@gmod.org.

– Amelia Ireland GMOD Community Support || <http://gmod.org> amelia.ireland@gmod.org

Chicago SMBE Jul7-11 UndergradTravel

SMBE UNDERGRADUATE TRAVEL AWARDS

2013 ANNUAL MEETING OF THE SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION

July 7-11, Chicago, USA

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 (July 7-11, Chicago, USA). 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.

All details about this program and the application form can be found on this web site :

http://lbbe-dmz.univ-lyon1.fr/spip_smbe_undergrad/

DEADLINE FOR RECEIPT OF APPLICATIONS:
April 2, 2013

Laurent.Duret@univ-lyon1.fr

Cornwall UK EMPSEB 19 Sep3-7 EvolBiolRegistrationClosingSoon

EMPSEB 19 - CALL FOR ABSTRACTS, REGISTRATION CLOSING SOON

Dear Colleagues, The registration deadline for the 19th European Meeting of PhD Students in Evolutionary Biology (EMPSEB) is fast approaching. The meeting is being held at the University of Exeter Cornwall Campus, UK, from the 3rd-7th September, 2013, and plenary speakers include Professor Geoff Parker, Professor Judith Mank, and Professor Troy Day.

We will be welcoming applications from European PhD students at all stages of their research until March the 1st, 2013. Details about how to register can be found on the website: <http://www.empseb19.com> Registration cost: 350 (Price includes transport to Cornwall from selected UK airports, accommodation, and meals for the duration of the conference)

Any enquiries should be directed to secretary@empseb19.com

EMPSEB in a nutshell: EMPSEB provides a platform for PhD students studying Evolutionary Biology to present their work and meet their peers from all over Europe. It takes place in a different European city each year, and is organised by the PhD students of the host country. The meeting is now an annual tradition that started 18 years ago with the first meeting being held in Zurich, Switzerland in 1995.

EMPSEB 19 will last for 5 days and will involve a variety of activities, discussions and excursions. Joining the participants will be a number of senior evolutionary scientists who have been invited to give plenary talks, run discussion groups, and provide expert guidance on starting a scientific career. Plenary speakers will provide constructive feedback on talks by PhD students, who are all required to give a short 10 minute presentation.

We would be very grateful if you could forward this message to anyone you think might be interested.

Follow us on Twitter & Facebook: <https://twitter.com/empseb19> <https://www.facebook.com/EMPSEB19> rhs206@exeter.ac.uk

Detlef Weigel <weigel@tue.mpg.de>

DalhousieU Endocytobiology Aug18-22

12th International Colloquium on Endocytobiology and Symbiosis

August 18th - 22nd, 2013 Dalhousie University, Halifax, Nova Scotia, CANADA

SECOND CIRCULAR (19 February 2013)

Dear Colleagues,

The 12th International Colloquium on Endocytobiology and Symbiosis of the International Society of Endocytobiology (ISE) will be held August 18th to 22nd 2013 at Dalhousie University in Halifax, Nova Scotia, Canada.

There will be registration and an opening reception the evening of Sunday August 18.

Talks will begin the morning of August 19th.

CONFERENCE WEBSITE

<http://ices2013.biochem.dal.ca> IMPORTANT DATES

March 1 - April 15 2013: Early registration. April 15 - Deadline for receipt of presentation abstracts.

The colloquium will cover the latest research on all aspects of endosymbiosis and the biology of endosymbiotically-derived organelles. We look forward to seeing you in Halifax!

Best regards, John Archibald

John Archibald <jmarchib@dal.ca>

EMBL ModelEvolutionSystems May1-4

Dear colleagues,

The registration deadline for this exciting meeting has just been extended - please check out the full program here:

<http://www.embo-embl-symposia.org/symposia/-2013/EES13-01/> Regards, Detlef Weigel (Max Planck Institute for Developmental Biology) Diethard Tautz (Max Planck Institute for Evolutionary Biology)

Florida Genome10K Apr24-28

3rd Genome10K Community of Scientists

Workshop and Conference to be held in Hollywood, Florida USA

April 24 - 28, 2013.

Conference information and registration is available at: <http://config10k.com> The Conference and associated Workshops offer an extraordinary opportunity for expert scientists using genome sequence data to better understand life and to interact with computer and biotech scientists producing these data. Our goal is to discuss rigorous formats and standards for building a library of genomes that will form a robust basis for science, medicine, and other fields and determine the best way forward to achieve these standards.

The Genome 10K project aims to assemble a genomic zooXa collection of DNA sequences representing the genomes of 10,000 vertebrate species, approximately one for every vertebrate genus. The trajectory of cost reduction in DNA sequencing suggests that this project will be feasible within a few years. The Genome 10K project will directly reveal the molecular source of the diversity of vertebrate animal forms, completely charting for the first time the specific genomic changes that drove the evolutionary innovations leading to the spectacular diversity of vertebrates today. What we learn from the genomes of present-day species will provide a unique new window into the biology of vertebrates, including our own species, and help us be better stewards of the planets animal diversity.

We aim to gather many of the worlds experts in genome assembly, alignment, and analysis to address the computational challenges inherent in this ambitious project. As the technology that makes the Genome 10K Project possible speeds ahead, the problem of understanding and interpreting the DNA data it generates looms ever larger, threatening to eclipse the dramatic gains in sequencing throughput.

The diversity and complexity in vertebrate genomes require extremely challenging algorithms for identifying the homologous segments needed to set up a framework for comparative genome analysis and to reconstruct the record of genetic changes leading to present-day species. On a small scale, genomes have undergone

point mutations and small insertions and deletions. On a larger scale, rearrangements and duplications have led to varied chromosomal organizations. For this reason, we must be able to assemble DNA sequence data from a novel species de novo into a reference genome that is accurate both on a chromosomal karyotype scale and on the scale of individual DNA bases. Then we must discover by genome-wide alignment methods the evolutionary relationships between this new genome and previously obtained genomes. This will be an improvement on the current practice of relying from the start on alignment of individual short reads from a new species to an existing reference genome.

Please join us and share your ideas and expertise in what promises to again be a productive and inspiring meeting.

Warren Johnson <johnsonw11661@gmail.com>

Fredericton EvolutionVolvox Jul31-Aug3

THE SECOND INTERNATIONAL VOLVOX CONFERENCE FREDERICTON (NEW BRUNSWICK, CANADA) JULY 31 V AUGUST 3, 2013

Please join us for the 2nd International Volvox Conference (focused on the green alga Volvox and its close relatives) to be held July 31 V August 3, 2013, in Fredericton (New Brunswick, Canada). This is the second of what we hope to be a long series of Volvox meetings to be held every other year, alternating with the Chlamydomonas meetings. The first meeting, in 2011, was a great success (www.unbf.ca/vip/IVC/). Volvocine algae have become an important model system for the evolution of multicellularity, development and cellular differentiation, and lately have yielded important results in fields as diverse as genomics, hydrodynamics, and social evolution. We hope that the meeting will continue to foster exchange of ideas and expertise and will initiate new collaborations. We also wish to attract new people and to build a stronger Volvox community. The meeting (through contributed papers and posters) will highlight various aspects of the biology, taxonomy, ecology, development, genetics/genomics and evolution of Volvox and its relatives. For additional information and updates (including preliminary program, registration and abstract submission deadlines) please visit the Conference page at <http://www.unbf.ca/vip/-IVC2013>).

REGISTRATION IS NOW OPEN.

Organizing Committee:

Aurora M. Nedelcu, UNB, Canada Matthew Herron, U Montana, USA Armin Hallmann, U Bielefeld, Germany David Smith, UBC, Canada Stephen Miller, UMBC, USA Hisayoshi Nozaki, U Tokyo, Japan Erik Hanschen, U Arizona, USA James Umen, Donald Danforth Plant Sci Ctr, St, Louis, USA Aurelia Honerkamp-Smith, Cambridge U, UK

Aurora M. Nedelcu University of New Brunswick Department of Biology PO Box 4400 Fredericton, NB Canada E3B 5A3 phone: (506) 458-7463

Aurora Nedelcu <anedelcu@unb.ca>

Galapagos WorldCongressEvol Jun1-5 GradStdTravelAwards

Graduate Student Travel Awards to attend “World Congress on Evolution III” in the Galapagos Islands, June 2013

The National Evolutionary Synthesis Center (NES-Cent - www.nescent.org) is sponsoring two travel awards to enable Evolutionary Science graduate students to attend the third “World Congress on Evolution” (www.usfq.edu.ec/eventos/evosummit), which will be held from June 1-5, 2013 on the Galapagos Island of San Cristobal.

These awards are part of NESCent’s continuing outreach efforts to serve members of groups that are under-represented/under-served in evolutionary science, as defined by the National Science Foundation (www.nsf.gov/statistics/wmpd). As such, application is restricted to graduate students that are: American Indian/Alaska Native, Asian, Black/African American, Hispanic/Latino/Latina, and/or Native Hawaiian/Other Pacific Islander.

Travel awards cover travel/food/lodging/conference registration.

To apply, please visit www.nescent.org/galapagos-travel-award. Applicants must provide a one-page Statement of Academic Interests and Career Goals, a one-page Biosketch and a letter of recommendation from your graduate advisor.

Application Deadline: April 1st, 2013, 5:00 PM PST
Notification Date: April 5th, 2013

Please note that applicants must be US citizens, permanent residents, or otherwise free of any restrictions which would prevent them from traveling out of the US, to Ecuador/Galapagos over the dates of the conference.

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](https://www.skype.com/people/jory.weintraub)

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

Galapagos WorldSummitEvol Jun1-5

III World Summit on Evolution June 01 to 05, 2013

The Universidad San Francisco de Quito has previously organized World Summits on Evolution I and II which have promoted the exchange of ideas among outstanding researchers working in the different branches and aspects of biology. World Summit on Evolution III will focus on the importance of evolution for humanity and our planet.

Human activities such as agriculture, medicine, industry, urbanization and tourism are leaving behind a footprint on many organisms, and these may lead to unexpected consequences for humanity and the environment. The understanding of these interactions and responses is critical to both avoid and manage nature and health-related complications.

The Galapagos Islands are a unique setting for this debate not only because of their importance in evolutionary science and historical connections to Charles Darwin but also for their incomparable landscape scenery and unique biota.

<http://www.usfq.edu.ec/eventos/evosummit/-Paginas/default.aspx> Gabriel Trueba, Profesor Tiempo Completo Ciencias Biológicas y Ambientales Universidad San Francisco de Quito T: (+593) 2 297-1700 ext. 1836 Diego de Robles y Vía Interoceánica, Quito, Ecuador <http://www.usfq.edu.ec> —

III Cumbre Mundial de Evolución Galápagos Junio 1-5 de 2013

Las Cumbres Mundiales de Evolución promueven el in-

tercambio de ideas entre investigadores destacados que trabajan en diferentes aspectos de la biología evolutiva. La III Cumbre Mundial de Evolución enfatizará la importancia de la evolución para la humanidad y para nuestro planeta.

La cumbre se realizará en las Islas Galápagos, un escenario ideal para este debate no solo por su importancia para las ciencias evolutivas y sus conexiones históricas con Charles Darwin sino por sus incomparables paisajes y bita única

Invitamos a investigadores (profesionales y estudiantes) a ser parte de esta cumbre, como participantes o presentadores.

<http://www.usfq.edu.ec/eventos/evosummit/-Paginas/default.aspx> Gabriel Trueba, Profesor Tiempo Completo Ciencias Biológicas y Ambientales Universidad San Francisco de Quito T: (+593) 2 297-1700 ext. 1836 Diego de Robles y Vía Interoceánica, Quito, Ecuador <http://www.usfq.edu.ec> Gabriel Trueba <gtrueba@usfq.edu.ec>

Invergowrie Scotland Phylogeny Feb18

Dear Evoldir,

The fifth meeting of the Scottish Phylogeny Discussion Group will be held by Biomathematics & Statistics Scotland at the James Hutton Institute, Invergowrie (near Dundee), on 18 February 2013. The meeting will start with lunch at 1 PM.

Dr Jim Procter, Jalview Coordinator, College of life sciences, University of Dundee

will talk on:

“Creation, curation and analysis of Protein and RNA alignments with Jalview”.

This will be followed by a range of talks by phylogeny researchers based in Scotland.

To register to attend, please see:

<http://biology.st-andrews.ac.uk/cegg/spdg> Registration includes free buffet lunch, tea and coffee. If you wish to come for dinner after the meeting (charged at cost), please indicate this when you register.

* * * *

Abstract: Creation, curation and analysis of Protein

and RNA alignments with Jalview

Jalview (www.jalview.org) is a BBSRC funded open source tool for the visualisation and analysis of protein and nucleic acid sequence alignments that is widely used in teaching and research. Available as a web based applet, or Desktop application, version 2.8 incorporates Jmol, a molecular structure viewer, and the RNA structure viewer VARNA. The Jalview Desktop supports figure generation, and provides access to a range of sequence, alignment, 3D structure and annotation databases, and analysis services provided by the University of Dundee and Free University of Amsterdam. It also acts as a graphical client for the alignment, protein disorder prediction and amino acid conservation analysis programs made available as Java Bioinformatics Analysis Web Services (<http://www.compbio.dundee.ac.uk/jabaws>).

In this talk, I will highlight the key developments in Jalview that have made it possible to create, curate and analyse protein and RNA sequence alignments in the context of structure, biological knowledge and evolutionary analyses. I'll also discuss some of the current challenges with regard to the creation, curation and analysis of alignments, and how they fit with Jalview's development roadmap.

- Jim Procter.

* * * *

- Daniel Barker <http://bio.st-andrews.ac.uk/staff/db60.htm> The University of St Andrews is a charity registered in Scotland : No SC013532

db60@st-andrews.ac.uk

LakeComo Italy GenomeEvolution Jun27-Jul5

First announcement for the Workshop on Statistical Physics / Biology "Quantitative Laws of Genome Evolution" 27 June - 5 July 2013 Lake Como School of Advanced Studies in Complex Systems Villa del Grumello Como, Italy Registrations will open in February 2013 Scholarships will be available on a selection basis

For more information, contact: ev.genome.workshop@gmail.com

Summary: Quantitative approaches to evolutionary genomics, systems biology, and ecology unravel several universal regularities connecting genome-scale observ-

ables, phenotypes and physiological traits. A current challenge for theoreticians is understanding how different universal features emerging empirically can be accounted for by simple mathematical models exploring quantitative laws at different levels, from physiology to evolutionary genomics. The scope of this workshop is to give an overview of the current state of this emerging field. The workshop will primarily target PhD students and postdocs with a physics or mathematics background, but the school is open to anyone with background in (evolutionary) genomics, (evolutionary) biology, bioinformatics, ecology, interested in quantitative work.

Sponsors: Centro Volta Lake Como School of Advanced Studies in Complex Systems iPoLS Network

Confirmed Speakers (the list is growing) Eugene Koonin (NCBS / NIH Bethesda) Luca Peliti (Naples, Statistical Mechanics, Evolutionary Biology) Olivier Tenaillon (Paris, Evolutionary Biology, Experiments and Theory) Herve Isambert (Institut Curie, Paris) Amos Maritan (Univ Padua) Dominique Schneider (University of Grenoble) Sergei Maslov (Brookhaven National Laboratory) Joshua Weitz (GA Tech) Uberto Pozzoli (IRCCS Medea) Rosalind Allen (University of Edinburgh) Namiko Mitarai (NBI Copenhagen) Organizing

Committee: Marco Cosentino Lagomarsino (Chair, U-Pierre et Marie Curie, Paris) Uberto Pozzoli (IRCCS Eugenio Medea) Luigi Grassi (Univ Roma "La Sapienza") Federico Bassetti (Univ Pavia)

Steering Committee: Joshua Weitz (GA Tech) Sergei Maslov (BNL Brookhaven) Dominique Schneider (University of Grenoble) Rosalind Allen (University of Edinburgh) Namiko Mitarai (NBI Copenhagen)

University of Insubria Committee: Vincenzo Gino Benza, Giulio Casati

jsweitz@gatech.edu

Lisbon ESEB2013 Aug19-24 DeadlineExtended

The 14th Congress of the European Society for Evolutionary Biology Lisbon, Portugal, 19-24 August 2013

Deadline for abstract submission extended to 8th of March.

There are already more than 900 registered delegates.

In order to avoid a last day peak of abstract submissions, the congress organization extends the deadline for the abstract submission to 8th of March.

Octavio Paulo Chairman

Octavio Paulo <octavio.paulo@fc.ul.pt>

Lisbon ESEB2013 Aug19-24 Deception

Dear Colleagues:

the abstract deadline is approaching for the XIV Congress of the European Society for Evolutionary Biology (<https://www.eseb2013.com>), happening in Lisbon, Portugal from the 19th - 24th August 2013. We are pleased to invite abstract submissions for oral and poster presentations until the 28th of February 2013, for the symposium entitled:

EVOLUTIONARY CONSEQUENCES OF DECEPTION

Invited speakers: Martin Stevens (University of Cambridge)

Tom Sherratt (Carleton University)

Johanna Mappes (University of Jyväskylä)

Organisers: Carita Lindstedt-Kareksela (University of Jyväskylä)

Mikael Mokkonen (University of Jyväskylä and Simon Fraser University)

Description: The ability to deceive oneself, conspecifics or individuals of other species is a fundamental aspect to many coevolutionary struggles. Brood parasites have the ability to produce eggs that exactly resemble the egg coloration of their host species, while alternative mating strategies employed by 'sneaker' individuals circumvent confrontation in intrasexual competition - these are just a few examples of widely known deceptive strategies in the animal kingdom. Deception allows individuals to gain an evolutionary advantage in reproduction and/or survival, such as through deceptive colour mimicry, predator-prey systems, sexually antagonistic encounters with a mate, parent-offspring interactions or competition over resources. Much of the existing research on deception has been fragmented into various topics with limited interaction, even though there are some common themes such as frequency dependent selection, manipulation of the receiver's sen-

sory system, and the antagonistic coupling of the actor's benefits to costs of the recipient(s). Thus, our goals of this symposium are to unify researchers from different fields, as well as provide opportunities to present novel findings, questions, and different perspectives in an effort to better understand the costs and benefits of deception.

For submission of abstracts follow the instructions on the website at <https://www.eseb2013.com> We look forward to seeing you in Lisbon!

Mikael and Carita

Mikael Mokkonen <mikael.mokkonen@gmail.com>

Lisbon ESEB2013 Aug19-24 EvoBiol

There are still a few days left to submit abstracts for the symposium, 'Evolutionary Biology in China' at the Congress of the European Society for Evolutionary Biology in Lisbon, 19-24 August 2013 (<https://www.eseb2013.com>).

This symposium is intended to showcase the great work that is now being done in China and to promote links between Chinese and European evolutionary biologists.

We hope to see you in Lisbon!

Roger Butlin and Kai Zeng

r.k.butlin@shef.ac.uk, k.zeng@shef.ac.uk

r.k.butlin@sheffield.ac.uk

Lisbon ESEB2013 Aug19-24 EvoDrugResistance

Dear colleagues,

The four of us, Sarah Cobey (Harvard/U. Chicago), Gabriel Perron (U. Ottawa), Fredrik Inglis (ETH) and Pleuni Pennings (Stanford), are organizing a symposium, "The Evolution and Genetics of Drug Resistance," at the European Society for Evolutionary Biology (ESEB) meeting this August. The ESEB meeting is the largest European conference on evolution and takes place every two years. This summer it will be held in

Lisbon (<https://www.eseb2013.com/>). Approximately 1400 people are expected to attend.

There is general consensus that the evolution of drug resistance is an interesting scientific topic and an important public health issue. We are very happy and proud that this year there will be a symposium dedicated to this theme at ESEB. We have two great invited speakers, Cally Roper and Craig MacLean. Dr. Roper studies drug resistance in malaria, including its evolution and its global distribution. Dr. MacLean has researched the evolutionary genetics of antibiotic resistance in the opportunistic human pathogen *Pseudomonas aeruginosa*.

The deadline for abstracts is February 28. To submit your abstract, please first register at <https://www.eseb2013.com/> and then upload your abstract to the site.

The four of us will evaluate the abstracts in a blinded way, so that we will not know whose abstract we are judging. The total amount of time allocated for our symposium depends in part on the number of abstracts received. More submissions will ensure an interesting and lively session. We welcome studies that are based on theory, data analysis, experiment, and/or clinical research.

Feel free to forward this posting to anyone you think may be interested. Below is the formal description of our symposium.

We hope to see you this summer in Lisbon (which, by the way, is a great city to visit).

Best wishes, Sarah, Gabriel, Fredrik, & Pleuni

Symposium: The Evolution and Genetics of Drug Resistance

The evolution of drug resistance in pathogenic microorganisms is one of the most important challenges facing evolutionary biologists. Evolutionary studies of drug resistance can aid the development of effective clinical strategies. At the same time, such studies help further our general understanding of evolutionary biology. Our symposium provides a venue to discuss experimental and theoretical studies that improve basic understanding and/or inform clinical practice.

cobeywork@gmail.com

Lisbon ESEB2013 Aug19-24 Evolutionary Conservation

Dear colleagues,

This is a reminder that we are inviting submissions of contributed talks and posters to a symposium addressing advances in Evolutionary conservation.

Register and submit your abstracts through the congress website: <https://www.eseb2013.com/> Don't forget ***DEADLINE for submission is February 28th, 2013***

Evolutionary conservation: the applied side of evolutionary biology

Organizers: Christophe Eizaguirre (GEOMAR, Kiel, Germany) ceizaguirre@geomar.de Miguel Soares (GEOMAR, Kiel, Germany) msoares@geomar.de Victor Stiebens (GEOMAR, Kiel, Germany) vstiebens@geomar.de

Invited speakers: Prof. Louis Bernatchez <http://www.bio.ulaval.ca/louisbernatchez/presentation.htm>

Prof. Jacob Höglund http://www.ebc.uu.se/-Research/IEG/popbiol/People/Jacob_Hoglund/

Prof. Simone Sommer <http://www.izw-berlin.de/-welcome.html> Description: Conservation biology is one of the rare fields of biology where evolution has too often been neglected. The reason for this probably stems from the misconception that evolution does not act on an ecologically relevant time scale. Here, we aim to combine evolutionary and conservation biology.

The symposium spans a large range of fields and will be organized in three parts (1) Evolutionary theories (e.g. viability of small populations, pace of allele fixation, role of phenotypic plasticity etc) (2) Evolutionary constraints on small population sizes and impacts of conservation measures. (3) Next generation sequencing: genetic diversity, evolution and adaptive potential of endangered species.

The symposium will lead to a special issue in Evolutionary Applications <http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291752-4571> which should be published in 2014.

For more details, please do not hesitate to contact us, Christophe Eizaguirre, Miguel Soares, Victor Stiebens
Christophe Eizaguirre <ceizaguirre@geomar.de>

**Lisbon ESEB2013 Aug19-24
EvolutionaryDemography**

Dear Colleagues,

We are glad to invite you to submit abstracts for talks and posters to the symposium on Evolutionary Demography, which will be held at the 14th Congress of the European Society for Evolutionary Biology (ESEB), in Lisbon, Portugal, 19 - 24 August 2013.

Registration is now open and the deadline for abstract submission is February 28.

For more details please visit: <https://www.eseb2013.com/talks> Symposium summary: This symposium aims to stimulate cross disciplinary exchange in the emerging field of evolutionary demography that explores evolutionary and ecological processes that shape birth and death of individuals and populations. Evolutionary theory is formulated in demographic characteristics including structure, fitness, selection, and change. Specific emphasis is given on aging and senescence with the individual serving as link between the lower mechanistic level and the higher functional level both from a biological and demographic perspective.

Invited speakers:

Rebecca Sear (London School of Hygiene & Tropical Medicine) <http://www.lshtm.ac.uk/aboutus/people/-sear.rebecca> Tim Coulson (University of Oxford) <http://www.zoo.ox.ac.uk/people/view/coulson.t.htm> We are looking forward to receive your abstracts.

Best wishes from the organizers of the symposium,

Ulrich Steiner (Max-Planck Odense Center on the Biodemography of Aging, University of Southern Denmark, Odense; usteiner@biology.sdu.dk)

Barbara Pietrzak (Max Planck Institute for Demographic Research, Rostock; pietrzak@demogr.mpg.de)

This symposium is co-organized by the Max Planck Institute for Demographic Research

Ulrich Steiner <usteiner@biology.sdu.dk>

**Lisbon ESEB2013 Aug19-24
GenomicIslands**

Dear Colleagues,

A reminder that the deadline for abstract submission is the 28th February!!

We are particularly keen to cover the whole of this process, and so want to highlight that the focus for the symposium is not solely on speciation, but also the genomic architecture of local adaptation, we are also keen to maintain a balance of theoretical and empirical contributions.

As a part of the XIV Congress of the European Society for Evolutionary Biology, which will be held in Lisbon from the 19th to 24th August 2013, we are pleased to announce a symposium on “Genomic Islands: their role in adaptation and speciation”. Details of the symposium are below, and we will be accepting abstract submissions until the 28th February 2013.

Genomic Islands: their role in adaptation and speciation

Keynote Speakers: Jeffery Feder (<http://federlab.nd.edu/>) Nick Barton (<http://ist.ac.at/-research/research-groups/barton-group/>) Patrik Nosil (<http://nosil-lab.group.shef.ac.uk/>)

Summary: Genome-wide data offers a unique opportunity to gain an insight into the genomic architecture involved in the adaptive divergence found in heterogeneous environments which can lead to local adaptation, reproductive isolation and ultimately speciation. By considering a range of species and approaches, this symposium will explore the interactions of diversifying selection and homogenizing gene flow to identify trends in genomic evolution which accompany adaptation and ecological speciation. The symposium will focus on both theory and empirical data to assess the importance (or otherwise) of genomic islands of divergence.

To register and submit your abstract for this symposium, please follow the instructions on the congress website (<https://eseb2013.com/>).

We look forward to hearing from you, and hope to see you in Lisbon!

Organising committee: Rui Faria, Sarah Helyar, Chris Jiggins, Gary Carvalho, Arcadi Navarro, Carole Smadja

Kær kveja / Best regards

Sarah Helyar, Ph.D. Fagstjóri / Research Group Leader
Öryggi, umhverfi & erfir / Food Safety, Environment &
Genetics Beint / Direct: (+354) 422 5000 GSM / Mo-
bile: (+354) 858 5115

sarah.helyar@matis.is

Lisbon ESEB2013 Aug19-24 GermSomaSegregation

ESEB Symposium on “Early germ-soma segregation”

Dear Colleagues:

We would like to invite you to attend and contribute to the ESEB-sponsored symposium “Evolutionary consequences of an early germ-soma segregation”, to take place at the 14th Congress of the European Society for Evolutionary Biology (ESEB), in Lisbon, Portugal, 19 - 24 August 2013. The abstract submission deadline is 28 February!

Invited Speakers: Norman Arnheim (University of Southern California, USA) “Germline selection and the paternal-age effect in humans.”

Andrew Bourke (University of East Anglia, UK) “Early germline segregation and social group transformation”

Organisers Duur K. Aanen (Wageningen University)
Rick Michod (University of Arizona)

Summary: It has been 25 years since Leo Buss first proposed that an early segregation of a germ line from the rest of the body is an adaptation to limit the scope for selfish cell lineages. A number of recent discoveries make it timely to reevaluate this hypothesis. This symposium explores the evolutionary stability of multicellularity in organisms with and without an early germline sequestration, to discuss the relative importance of this characteristic for conflict resolution, in multicellular growth and, more generally, in other major transitions such as the transition to eusociality.

Description Most animals segregate, early in development, a small number of germ cells that are destined to give rise to reproductive cells, from somatic cells. Only a few cell divisions separate the germ cell from the gamete stage and germ-cell division is strictly regulated. It has been nearly 25 years since Leo Buss proposed that these individual-level adaptations reduce the scope for within-individual selection, at which level selection of

ten will be deleterious for individual fitness. The early germ-soma segregation thus prevents conflict between selection at the level of the individual and selection at the level of the cell. There is much empirical support for this hypothesis. However, it has been argued that the regular single-cell bottleneck observed in most life cycles in combination with a low mutation rate is sufficient to limit intra-individual genetic variation required for among-cell selection. Furthermore, recently some cases have been identified that show that the germ-soma segregation does not provide perfect protection against lower-level selection. First, contagious cancers, transmitted horizontally from one individual to another, circumvent the germ line. Second, recently a mechanism has been discovered by which inherited diseases, caused by de novo mutations in the father’s germ line, are positively selected. Normally, male germ cells divide asymmetrically, with one daughter cell becoming the new germ cell, and the other giving rise to multiple gametes. However, some mutations increase the frequency of symmetrical division of the germ cells, thus increasing the number of germ cells with this mutation. This explains an observation, already made in the early 1900’s, that the incidence of some inherited diseases increases with the age of the father. On the occasion of these new discoveries, this symposium will discuss the importance of germ-soma differentiation for resolution of the potential conflict between the levels of selection in a multicellular individual. This symposium will bring together students working on the evolution of multicellularity and conflict resolution, both in organisms with and organisms without an early germ-soma differentiation, such as fungi. It will discuss the importance of an early germ-soma differentiation for conflict resolution relative to other stabilising factors, especially high among-cell genetic relatedness, seen in most multicellular organisms.

Duur Aanen

“Aanen, Duur” <duur.aanen@wur.nl>

Lisbon ESEB2013 Aug19-24 HostParasite

Dear Colleagues,

A reminder that the deadline for abstract submissions is in less than a week!

Registration is now open for XIV Congress of the European Society for Evolutionary Biology, to be held in Lis-

bon from the 19th to 24th August 2013. We are happy to announce we will be accepting abstract submissions until the 28 of February 2013*, for the symposium:

ATTACK AND DEFENSE: EVOLUTIONARY AND ECOLOGICAL CONSEQUENCES OF INDIVIDUAL VARIATION

Invited speakers:

Meghan Duffy, Michigan State (<http://www.lsa.umich.edu/ceb/directory/faculty/duffymeg/default.asp>)

Marcel Salathé, CIDD, Penn State (<http://www.salathegroup.com/>)

Description: Antagonistic interactions are widespread in nature, most notably in the context of infectious disease, where hosts and pathogens play out an ongoing and ever-escalating battle for survival. Understanding how genetic and environmental factors influence the spread of disease and the evolution of host and pathogen traits is a topic that unifies ecologists, evolutionary biologists, and epidemiologists. Accurate predictions about both the ecology and evolution of infection are notoriously difficult, and an important contributing factor is that individuals vary, often substantially, in their responses to infection: genetic variation for infection success and within host resistance and tolerance are well described; environmental conditions often interact with genetics to produce variable, and unpredictable, infection outcomes; males and females frequently show distinct responses to infection, with implications for both the spread and evolution of disease; individual variation in host behaviour and contact networks repeatedly result in disease outbreaks that would not be predicted from the average behaviour of the population. The current challenge lies in incorporating empirically observed variation into theoretical models dealing with the ecology and evolution of disease, and to go further, and link these predictions to disease spread and evolution in the wild. With this synthesis in mind, this symposium will bring together theoretical and empirical approaches across a broad range of biological systems, to embrace individual level variation in host-pathogen interactions, and its population-level consequences. We are especially excited about work linking both theoretical and experimental approaches in disease evolution, and those that extend laboratory studies of infection to disease spread and evolution in natural populations.

To register and submit your abstract for this symposium, please follow the instructions on the congress website (<https://eseb2013.com/>). We hope to see you there!

Organizers: Anna-Liisa Laine, University of Helsinki
Pedro Vale, Centre for Immunity, Infection and Evolution, University of Edinburgh.

pfvale@gmail.com

Lisbon ESEB2013 Aug19-24 LastWeekAbstractSubmission

Last week for the abstract submission to the 14th Congress of the European Society for Evolutionary Biology, Lisbon, Portugal, 19-24 August 2013.

Half the estimated number of delegates already registered, please don't let the registration and abstract submission for the last day!

You are invited to submit your contribution to one of 29 topical symposia and 4 wide scope sessions.

All relevant information can be found online, www.eseb2013.com. Looking forward to seeing you in Lisbon!

Follow us on twitter @eseb2013

Octávio S. Paulo Chairman

Octavio Paulo <octavio.paulo@fc.ul.pt>

Lisbon ESEB2013 Aug19-24 LearningEvolution

Dear Colleagues,

Registration is now open for XIV Congress of the European Society for Evolutionary Biology, to be held in Lisbon from the 19th to 24th August 2013. We are happy to announce we will be accepting abstract submissions until the 28 of February 2013, for the symposium *Actively learning evolution: methods and resources.*

* *

Invited speaker:

*Tom Meagher, *University of St Andrews, UK, and Chair SSE Education & Outreach Committee.

<http://www.st-andrews.ac.uk/profile/trm3> Symposium description:

It has been shown that the best way of learning science is doing science. The symposium “*Actively learning evolution: methods and resources”, *integrated in the XIV Congress of the European Society for Evolutionary Biology, aims to explore and discuss methods and resources available to promote a more effective learning of evolution that engage students through enquiry and realistic scientific investigations. If you have been working on/with such methods we invite you to submit an abstract for a discussion round in the format of hands-on activities that allows participants to explore the presented resources. Priority will be given to those resources that can be explored at different depths and used to teach evolution in both high schools and university grades. To register and submit your abstract for this symposium, please follow the instructions on the congress website (<https://eseb2013.com/>). We hope to see you there!

[image: <https://mail.google.com/mail/ca/u/0/-images/clear.gif>] Organizers: Alexandra Sá Pinto, Centro de Investigaçã~o em Biodiversidade e Recursos Genéticos, University of Porto (CIBIO.UP).

Rita Campos, CIBIO.UP

Kristin Jenkins, Education and Outreach Program, National Evolutionary Synthesis Center

Xana Sá Pinto <xanasapinto@gmail.com>

Lisbon ESEB2013 Aug19-24 MHC Multigene Family Evol

Dear Colleagues,

we would like to remind you that the deadline is approaching for abstract submission to the symposium on * MULTIGENE FAMILY EVOLUTION IN THE POST-GENOMIC ERA: TOWARDS A POPULATION GENOMIC APPROACH TO MHC EVOLUTION *. Please see below for further details. Abstract submissions will be accepted until 28th of February 2013.

Keynote Speakers: *JIM KAUFMAN* (<http://www.immunology.cam.ac.uk/directory/-profile.php?jfk31>)

JACEK RADWAN (http://www.eko.uj.edu.pl/-molecol/index.php?option=3Dcom_content&view=3Darticle&id=51&Itemid=32)

Description: Multigene families, like the MHC, encode

central components in pathways involved in individual fitness and are key to important adaptations. Elucidating the molecular processes involved in their evolution is an important issue to further our understanding of the genetic basis of biological diversification. With this symposium we aim at bringing together researchers studying the functional genomics, evolutionary ecology and population genomics of MHC to discuss the most recent developments in each of the fields and develop new ideas and future research directions that integrate the different branches of MHC evolution in particular and multigene family evolution in general. Contributions presenting an integrative approach or findings with significant relevance to such will be given priority. We explicitly encourage also submissions presenting integrative research on multigene families other than MHC.

To register and submit your abstract for this symposium, please follow the instructions on the congress website (<https://eseb2013.com/>).

We hope to see you in Lisbon! Reto Burri & Robert Ekblom

– RETO BURRI

Department of Evolutionary Biology Evolutionary Biology Centre Uppsala University

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reto.burri@ebc.uu.se

Lisbon ESEB2013 Aug19-24 Molecular Innovations

We are pleased to invite you to the symposium “*MOLECULAR EVOLUTIONARY INNOVATIONS” *that will be held at the XIV congress of the European Society of Evolutionary Biology 2013 from 19 to 24 August in Lisbon, Portugal, and would be honored to receive your abstract submission.

Symposium summary: Evolutionary innovations, including evolution of new functions, bear the hallmarks of genome plasticity. The comparison of ever-increasing number of sequenced genomes in different species has expanded our ability to discover molecular evolutionary novelties, to study their origin, their dynamics and long-term fates in genomes. In this symposium

we will address the evolution of these events, focusing in particular in studies that discovered and traced them down (from whole genome duplications to single gene duplications), mechanisms involved in their advent (exon shuffling, gene fusion, or fission, domestication of transposable elements, exaptation of coding or noncoding sequences and lateral gene transfer...), the dynamics and fate of novelties (contribution to the neofunctionalization or subfunctionalization events, gene repertoires preferentially retained, patterns of gene family expansion, mode of evolution they followed for their maintenance), as well as the tools allowing their retrieval and/or the comparison of such genes at the genomic level. We will also put emphasis on those detailing changes at the molecular and cellular levels, up to those showing behavioural impact.

Invited speakers:

Vaishali Katju http://biology.unm.edu/katju/-Katju_Lab.Website/Home.html *Dan I. Andersson* http://www.imbim.uu.se/Research/Microbiology-immunology/Andersson_Dan_I/ Looking forward to seeing you in Lisbon!

Frédéric Brunet (frederic.brunet@ens-lyon.fr) Rita Ponce (arponce@fc.ul.pt)

More information and registration at: <http://www.eseb2013.com> DEADLINE FOR ABSTRACT SUBMISSION: February 28th 2013

Rita Ponce <anaritaponce@gmail.com>

Lisbon ESEB2013 Aug19-24 NonGeneticInheritance

Dear colleagues,

We are organising a session on NON GENETIC INHERITANCE at the XIVth Congress of the European Society for Evolutionary Biology, to be held in Lisbon from the 19th to 24th August 2013. Registration on the website is possible. Feel free to submit your proposal for a poster or a talk, but before the abstract submission deadline on the 28th of February.

<https://www.eseb2013.com/> Looking forward to receive your abstracts.

Best wishes from the organizers of the NGI session

Benoit Pujol < <http://www.edb.ups-tlse.fr/-Pujol-Benoit.html> > & Katie Stopher < [http://](http://wildevolution.biology.ed.ac.uk/jpemberton/-KatieStopher2.html)

[/wildevolution.biology.ed.ac.uk/jpemberton/-KatieStopher2.html](http://wildevolution.biology.ed.ac.uk/jpemberton/-KatieStopher2.html) >

More details on the session here:

Invited speakers: Kevin Laland < <http://lalandlab.st-andrews.ac.uk/> > and Etienne Danchin < <http://www.edanchin.fr/spip.php?article22> >

Description: Evidence is accruing that epigenetic, developmental, parental, ecological and cultural inheritance mechanisms have a major impact on the evolution of phenotypic diversity. The aim of this symposium is to highlight novel results and synthesize our knowledge on the contribution of non-genetic inheritance to evolutionary processes. We will also explore the need for an extended theory of evolution where genes are not the only inheritance system.

benoit.pujol@univ-tlse3.fr

Lisbon ESEB2013 Aug19-24 PhenotypicPlasticity Deadline

Dear Colleagues,

The deadline for abstract submission XIV Congress of the European Society for Evolutionary Biology (<https://www.eseb2013.com/>; August 19-24 2013, Lisbon, Portugal) is fast approaching.

We will be accepting abstract submissions until February 28th 2013 (Thursday), for the symposium "PHENOTYPIC PLASTICITY: MECHANISMS, ECOLOGY, AND EVOLUTION"

INVITED SPEAKERS: * Jacintha Ellers (Vrije Universiteit Amsterdam, The Netherlands) * Fred Nijhout (Duke University, USA) * Anthony Zera (University of Nebraska-Lincoln, USA)

ORGANIZERS: * Patricia Gibert (Université de Lyon1, France; patricia.gibert@univ-lyon1.fr) * Patrícia Beldade Instituto Gulbenkian de Ciência, Portugal; pbeldade@igc.gulbenkian.pt)

DESCRIPTION: Phenotypic plasticity refers to the ability of a genotype to produce different phenotypes in different environments. Its study integrates multiple disciplines and analyses at all levels of biological organization; from the molecular regulation of changes in organismal development, to variation in phenotypes and fitness in natural populations. This symposium welcomes work searching to understand how changes in

external environment affect (or not) phenotype, how alternative phenotypes perform in distinct environmental conditions, and how that weighs in to account for the evolution of plasticity.

pbeldade@igc.gulbenkian.pt

Lisbon ESEB2013 Aug19-24 Species Recognition Systems

Dear Colleagues,

We are glad to invite you to participate to the symposium

“Nature and mechanisms of evolution of species recognition systems” which will be held at the 14th Congress of the European Society for Evolutionary Biology (ESEB), in Lisbon, Portugal, 19 - 24 August 2013.

Registration is open and the deadline for abstract submission (for talks and posters) is February 28.

For more details please visit: <https://www.eseb2013.com/talks> Symposium presentation:

What makes a mate recognition system specific? Is species recognition a good working concept? How does specificity evolve? Do the mechanisms involved differ in the presence or absence of gene flow? These questions are central to our understanding of evolution of behavioral isolation, one of the most important means of species diversification, and the symposium goal is to address them.

This symposium is part of the European Science Foundation's Research Networking Programme Frontiers of Speciation Research (FroSpects, www.iiasa.ac.at/Research/EEP/FroSpects), which is funded by 18 of ESF's national member organisations.

Invited speakers:

Tamra Mendelson (UMBC, Baltimore USA) <http://umbc.edu/biosci/general/groups/tamram> John Endler (Deakin University, Geelong, Australia) <http://www.deakin.edu.au/scitech/les/staff/endlerj/>

We are looking forward to read your abstracts!!!

The organisers

Guila Ganem (Institute of Evolutionary Sciences, University of Montpellier, France, guila.ganem@univ-montp2.fr)

John Endler (School of Environmental and

life Sciences, Deakin University, Australia, john.endler@deakin.edu.au)

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Lisbon ESEB2013 Aug19-24 Symposium PopEcol

Dear Colleagues,

it is our pleasure to invite you to participate in the “Population Ecology” symposium to be held at the 14th Congress of the European Society for Evolutionary Biology (ESEB), in Lisbon, Portugal, 19 - 24 August 2013.

Registration is open and the deadline for abstract submission (for talks and posters) is February 28. For more details please visit: <https://www.eseb2013.com/>

Description: This symposium will include evolutionary perspectives on population ecology themes such as dispersal, life cycles, and selection in populations and meta-populations. The symposium will focus on theoretical and empirical developments in dispersal and life-cycle research welcoming synthetic approaches that span across taxa within these themes.

Invited speakers: Jean Clobert (Station d'Ecologie Expérimentale du CNRS a Moulis USR 2936, France, email: jean.clobert@EcoEx-Moulis.cnrs.fr)

Michael Morrissey (School of Biology, University of St Andrews, UK, email: michael.morrissey@st-andrews.ac.uk)

organizers: Ricardo Beldade (Labex CORAIL, USR3278, France, email: rbeldade@gmail.com)

Michael Morrissey (School of Biology, University of St Andrews, UK, email: michael.morrissey@st-andrews.ac.uk)

rbeldade@gmail.com

Lisbon ESEB2013 Aug19-24 TradeOffs

Abstract Deadline for ESEB Symposium on Mechanisms of Trade-Offs

Dear Colleagues:

The deadline for abstract submission for the 2013 ESEB meeting in Lisbon (August 19-24 2013) is approaching very rapidly.

We will be accepting abstracts for talks and posters in our symposium on the MECHANISMS OF TRADE-OFFS until 28 February 2013.

Abstracts must be submitted through the conference website at: <https://www.eseb2013.com/> Looking forward to seeing you in Lisbon!

Best wishes,

Bas Zwaan and Thomas Flatt

—

SYMPOSIUM DETAILS We would like to invite you to attend and contribute to the ESEB-sponsored symposium “Mechanisms of Trade-offs”, to take place at the 14th Congress of the European Society for Evolutionary Biology (ESEB), in Lisbon, Portugal, 19 - 24 August 2013.

INVITED SPEAKERS *Stephen C. Stearns (Yale University) *Joost Keurentjes (Wageningen University)

ORGANIZERS *Bas Zwaan (Wageningen University) *Thomas Flatt (University of Lausanne)

SNYOPSIS Trade-offs are of major importance in evolutionary theory, in particular in life history theory, since they are thought to impose constraints upon the response to selection: trade-offs occur when an evolutionary change in a trait that increases fitness is coupled to an evolutionary change in another trait that decreases fitness. Because organisms are often restricted in terms of resource acquisition, one of the major physiological explanations for the existence of trade-offs is differential resource allocation between competing functions/traits. Recently, however, molecular data have challenged the validity of this view, even though both views may be compatible with each other. Unfortunately, up-to-date, trade-offs have either mostly been approached from a purely phenotypic perspective without much attention to the underlying physiological and

genetic mechanisms, or conclusions about trade-offs have been drawn from molecular studies without sufficient consideration of the functional/organismal phenotype. In this symposium we aim to bridge these views by linking our current knowledge of the molecular and physiological pathways with what has been learned about quantitative genetic and phenotypic correlations among traits. Understanding the mechanisms underlying trade-offs and their evolutionary consequences will require an integrative approach, and it is the major aim of our symposium to help foster such an integration.

Website:

<https://www.eseb2013.com/symposia>

The site for registration for the ESEB meeting and for abstract submission for this symposium is now open at: www.eseb2013.com Deadline for abstract submission: 28 February 2013.

Abstracts will be evaluated by the symposium organizers and will be selected for either oral or poster presentation in late February. When submitting your abstract please state your preference (talk, poster) during the submission process. Talks in the symposium will be 15 minutes long, with 2 minutes for discussion.

We are looking forward to seeing you in Lisbon!

Bas and Thomas

Bas Zwaan

Laboratory of Genetics Plant Research Group Wageningen University and Research Centre Droevendaalsesteeg 1 6708 PB Wageningen The Netherlands

E-mail: bas.zwaan@wur.nl

Thomas Flatt

Department of Ecology and Evolution University of Lausanne UNIL Sorge Le Biophore CH-1015 Lausanne Switzerland

E-mail: Thomas.Flatt@unil.ch

Book: Mechanisms of Life History Evolution

<http://ukcatalogue.oup.com/product/-9780199568772.do> –

Thomas Flatt SNF Professor Department of Ecology and Evolution University of Lausanne UNIL Sorge Le Biophore CH-1015 Lausanne Switzerland

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Tel. Office: +41(0)21-692-4203 Tel. Secretary: +41(0)21-692-4160 Fax: +41(0)21-692-4165

Website: http://www.unil.ch/dee/page94630_en.html
Lab: <http://www.unil.ch/dee/page95005.html>

Book: Mechanisms of Life History Evolution
<http://www.unil.ch/dee/page95072.html>
 Thomas.Flatt@unil.ch

Lisbon Evolutionary Patterns May 27-29 Deadline Extended

Dear all,

We received confirmation from our Informatics Department that on the night of January 30th to January 31st, our university's server went down.

If you submitted an abstract to the upcoming Lisbon Evolutionary Patterns conference on those days, and you did not receive an automatic confirmation e-mail, it means that your upload was unsuccessful. The server is currently running again, the problem has been fixed.

We already extended the submission deadline to February 5th, and we will also be accepting electronic submissions through e-mail, at evolpat@fc.ul.pt.

We apologize for the inconvenience this might have caused you, and we want to kindly thank the people who brought this to our awareness.

We look forward to meeting you in a less virtual environment.

kind regards,

Nathalie

INTERNATIONAL CONFERENCE ON EVOLUTIONARY PATTERNS Horizontal and Vertical Transmission and Micro- and Macroevolutionary Patterns of Biological and Sociocultural Evolution

May 27-29th, 2013 | Calouste Gulbenkian Foundation, Lisbon, Portugal

Website: <http://evolutionarypatterns.fc.ul.pt> Upon wide request, we are happy to inform you that we extended the deadline for submissions to February 5th

ABOUT THE CONFERENCE

The 3-day International Conference aims to provide an interdisciplinary platform where evolutionary scholars from the exact, technological, life, human and socio-cultural sciences can exchange ideas and techniques on how to conceptualize, model, and quantify biological and sociocultural evolution. The Conference is organized by the Applied Evolutionary Epistemology Lab

of the Centre for Philosophy of Science of the University of Lisbon, in collaboration with the Calouste Gulbenkian Foundation, and with the support of the John Templeton Foundation.

PLENARY AND INVITED SPEAKERS

Plenary Speakers Michael Benton, Tal Dagan, John Jungck, Carl Knappett, Daniel McShea, Alex Mesoudi, Mark Pagel, Tyler Volk, and Richard Watson

Invited Speakers

Quentin Atkinson, Alberto Bisin & Thierry Verdier, Andreas Bohn, Michael Bradie, Jorge Carneiro, Claudine Chaouiya, Mark Collard, Alex de Voogt, Frank Kressing & Matthias Krischel, André Levy, Margarida Matos, Telmo Pievani, Luis Mateus Rocha, Élio Suenaga.

The conference website contains biographies of all speakers as well as the abstracts of their talk.

CALL FOR ABSTRACTS

We call for bio-informaticians, evolutionary biologists, microbiologists, paleontologists, geologists, physicists, mathematicians, anthropologists, archeologists, linguists, sociologists, economists, and philosophers and historians of science to provide talks on the following topics: 1. Conceptualization, quantification and modeling of horizontal and vertical transmission in biological and sociocultural sciences 2. Conceptualization, quantification and modeling of micro- and macroevolution in biological and sociocultural sciences 3. Hierarchy theory and the units, levels and mechanisms of evolution 4. How the universal application of evolutionary theories enables new possibilities for inter- and trans-disciplinary research and the unification of the sciences We encourage submissions of (1) concrete models and simulations, (2) theoretical, reflexive talks, and (3) historical accounts on any of the above mentioned topics.

POSSIBLE FORMATS

We call for mini-symposia (3 or 6 talks), poster sessions (3 or 6 posters), as well as individual regular and poster talks.

IMPORTANT DATES

Deadline Submissions: February 5th, 2013 Notification of Acceptance: March 1st, 2013 Registration Deadline for all Presenters: April 1st, 2013 Registration Deadline Audience: May 1st, 2013 Conference Dates: May 27th-29th, 2013

REGISTRATION FEES

Professors: 300 euro | PhD and post-docs: 250 euro | Audience: 100 euro | Students: 50 euro

DOWNLOAD OUR POSTER

<http://evolutionarypatterns.fc.ul.pt/docs/patterns.pdf>
SUBSCRIBE TO OUR MAILINGLIST

<http://eepurl.com/n2DTL> FURTHER INFORMATION

<http://evolutionarypatterns.fc.ul.pt>;
<http://appeel.fc.ul.pt>

AppEEL Announcements
<appeelannouncements@fc.ul.pt>

Casey Bergman, Ph.D. Faculty of Life Sciences University of Manchester Michael Smith Building Oxford Road, M13 9PT Manchester, UK

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Web: <http://bergmanlab.smith.man.ac.uk/>-
Twitter: <http://twitter.com/bergmanlab>
casey.bergman@manchester.ac.uk

Marseilles EvolutionBiol Sep17-20

Manchester MolecularGenomeEvolution2013 May17

Dear Colleagues -

We are pleased to announce that the fourth annual Manchester Molecular and Genome Evolution Symposium will take place on Friday 17th May 2013. The remit of the symposium is broad and will include all aspects of molecular and genome evolution, ranging from computational algorithm development to wet-lab experiments investigating the molecular basis of fitness.

The symposium will be a day-long event consisting of two plenary lectures, a series of contributed talks, and a poster session. Plenary lectures will be given by Prof. Judith Mank (UCL) on "Sex-specific selection and the genomic basis of sexual dimorphism" and Dr. Lisa Crossman (TGAC, Norwich) on "Crowdsourcing outbreak genomics: E.coli 2011 and Chalara Ash Dieback".

We encourage anyone interested to attend the symposium and, if they wish, to submit an abstract. We are particularly keen to give PhD students and post-docs a chance to present their work. The best abstracts will be selected to give talks with the remainder invited to present posters. All contributed talks and posters will also be considered for a prize, presented at the drinks reception following the symposium.

There are limited places so please register for the symposium online at the URL: <http://tinyurl.com/ManMage2013>. If you have any questions about the symposium please contact myself (casey.bergman@manchester.ac.uk) or Lauren Summers (lauren.summers@manchester.ac.uk)

We hope to see you in May!

Best regards,

The 17th EBM will take place from September 17th to September 20 th 2013 abstract submission and registration : <http://sites.univ-provence.fr/evol-cgr/> best regards Pierre

Pierre PONTAROTTI <Pierre.Pontarotti@univ-provence.fr>

Montpellier MathCompEvolBiol May27-31

Registration deadline January 31: MCEB 2013, focus on applications to health and medicine

MCEB - Mathematical and Computational Evolutionary Biology 27-31 May 2013 - South of France

Website: <http://www.lirmm.fr/mceb2013/> Pre-registration deadline: January 31

Scope: Mathematical and computational tools and concepts form an essential basis for modern evolutionary studies. The goal of the MCEB conference (at its 5th edition) is to bring together scientists with diverse backgrounds to present recent advances and discuss open problems in the field of mathematical and computational evolutionary biology. This year a special focus will be given to the applications to health, for example with regard to human and cancer genomics, genetic diseases and virus epidemics. General concepts, models, methods and algorithms will also be presented and discussed, just as during the previous conference editions.

Where and when: Hameau de l'Etoile (<http://www.hameaudeletoile.com/>) in the Montpellier region, South of France, 27-31 May 2013.

Cost: Conference fees including accommodation (4 nights), meals, coffee breaks, buses, etc., will range from 350 euro to 500 euro depending on the room type. PhDs and postdocs will benefit of the cheapest rooms.

Keynote speakers:

Sebastian Boenhoeffer (ETH Zürich, CH). Molecular and mathematical epidemiology of viruses.

Bastien Bousseau (University of California, Berkeley, US). Genome-scale phylogenomics.

Alexei Drummond (University of Auckland, NZ). Bayesian molecular epidemiology.

Ian Holmes (University of California, Berkeley, US). Phylogenetics grammars and heterogeneous space-time models.

Steven Kelk (Maastricht University, NL). Recent advances in rooted phylogenetic networks: the long road to explicit hypothesis generation.

Darren Martin (University of Cape Town, SA). Factors influencing recombination in viruses.

Erick Matsen (Fred Hutchinson Cancer Research Center, Seattle, US). Phylogenetics and the human microbiome.

Tanja Stadler (ETH Zürich, CH). Phylogenetics in action - merging epidemiology and evolutionary biology.

Simon Tavaré (University of Cambridge, UK and University of Southern California, US). Cancer as an evolutionary process.

Gil McVean (University of Oxford, UK). Dissecting the genetic contribution to human disease.

For more information, see the website at: <http://www.lirmm.fr/mceb2013/> Please forward this announcement

Olivier Gascuel <gascuel@lirmm.fr>

Montpellier France Speciation2013 May27-29

Dear colleagues,

Registration is now open for the conference SPECIATION 2013, to be held in Montpellier 27-29 May 2013.

Information on the conference and the registration and abstract submission procedures can be found at <http://kimura.univ-montp2.fr/speciation2013/>. Please

note that you first need to pre-register following the instructions on the website - 'Registration procedure' tab.

Deadline for registration and abstract submission is 22 March 2013.

The conference will host up to 180 participants. We strongly encourage participants to register and book accommodation as soon as possible, as May can be a very busy period in Montpellier. Suggestions for accommodation are provided on the conference website.

You are welcome to contact Carole Smadja (carole.smadja-at-univ-montp2.fr) if you have any question.

Best wishes Carole Smadja and Isabelle Olivieri

- Dr. Carole Smadja CNRS research scientist Institute of Evolutionary Biology, Montpellier <http://www.carole-smadja.staff.shef.ac.uk/> - Institut des Sciences de l'Evolution cc065, Université Montpellier 2 34095 Montpellier France Phone: +33 (0)4 67 14 92 70 -

Munich PopulationGenomics Mar13-15

Dear Colleagues -

We are happy to announce that the FOR 1078 Meeting 2013 / Symposium Population Genomics will take place from March 13 - 15, 2013 at

LMU BioCenter lecture hall B 01.019 Grosshaderner Str. 2, 82152 Planegg-Martinsried.

This meeting will be a combined

student progress report meeting and symposium Population Genomics.

In the first two days of the meeting we will review the progress of our graduate students. On the third day we will have talks. As external speakers we are glad to announce:

- Bart Deplancke, Swiss Federal Institute of Technology (EPFL), Lausanne Dissecting gene regulatory principles using *Drosophila* and human population genomics

- Nicolas Galtier, University of Montpellier Transcriptome-based population genomics in animals

- Gil McVean, University of Oxford Population structure and natural selection in humans and chimpanzees

- Christoph Haag, University of Fribourg Evolution of partial genetic sex determination in *Daphnia magna*

Please have a look at http://for1078.bio.lmu.de/events/meeting_schedule.html with the current Meeting Schedule.

We encourage anyone interested to attend the symposium. Please write a short mail to Ingrid Kroiss kroiss@bio.lmu.de to register.

We are looking forward to seeing you here!

Best regards,

Wolfgang Stephan Faculty of Evolutionary Biology
LMU Munich Professor and Chair Speaker FOR 1078
Research Unit

LMU BioCenter Großhaderner Str. 2 82152
Planegg-Martinsried <http://evol.bio.lmu.de/> <http://for1078.bio.lmu.de/> stephan@bio.lmu.de

Ingrid Kroiss <kroiss@biologie.uni-muenchen.de>

ing Committee (Conference Development and Scientific Program) Lisa M. Campbell Jerrold I. Davis Alan W. Meerow Robert F. C. Naczi Dennis Wm. Stevenson W. Wayt Thomas

Alan W. Meerow, Ph.D., Research Geneticist and Systematist USDA-ARS-SHRS, National Germplasm Repository 13601 Old Cutler Road, Miami, FL 33158 USA voice: 786-573-7075; FAX: 786-573-7110 email: alan.meerow@ars.usda.gov

“Meerow, Alan” <Alan.Meerow@ARS.USDA.GOV>

NotreDameU MidwestEcolEvol Mar23-24

NewYork MonocotEvolution Jul7-13

MONOCOTS V: 5th International Conference on Comparative Biology of Monocotyledons

Sunday, July 07, 2013 7:00 AM - Saturday, July 13, 2013 12:00 PM (Eastern Time)

The New York Botanical Garden & Fordham University 718-817-8168 2900 Southern Boulevard Bronx, New York 10458 United States

Registration Is Now Open, With Early Bird Rates! Click on the “Register Now” button in the upper right corner of the Monocots V website: <http://www.regonline.com/builder/site/Default.aspx?EventID=1060172> . Conference to be held at The New York Botanical Garden and Fordham University in Bronx, New York City, Sunday, July 7, 2013 7:00 AM - Saturday, July 13, 2013 12:00 PM. The scientific program will consist of symposia, contributed papers and posters, and workshops. Optional activities will include a ticketed banquet, tours of the Botanical Garden Science campus, and post-conference field trips to the Hudson Highlands of New York and the Pine Barrens of New Jersey. Accommodations will be in the Fordham University residence halls. In addition, several area hotels are offering discount rates to Monocots V registrants.

Hope to see you in New York in July! The Organiz-

The Midwest Ecology and Evolution Conference is an annual migratory conference that is student hosted and attended from institutions located in the Midwestern United States. The conference supplies an excellent opportunity for graduate and undergraduate students to present data in a regional setting, and to be able to network with other students from nearby universities. The conference also presents an excellent opportunity to practice speaking in a low pressure atmosphere compared to large, national conferences, and is more easily accessible for universities without funding for travel to large conferences.

This year the conference will be hosted at the University of Notre Dame on March 23-24, 2013. Keep yourself up to date by checking back on this website regularly, as well as liking our facebook page. More information on registration to come.

Plenary Speakers: MEEC 2013 will be Drs. Mike Vanni from Miami University (OH), and Rowan Barrett from Harvard University! Registration deadline: Feb. 22nd

See the website for details: <http://meec2013.wordpress.com/> Glen R. Hood Ph.D. Candidate University of Notre Dame Dept. of Biological Sciences Office: 290A Galvin Life Sciences lab webpage: <http://federlab.nd.edu/> webpage: <http://www.nd.edu/~ghood> ghood@nd.edu

Portugal Ecological Speciation Apr29-30

Portugal.Ecological.Speciation.Apr29-30

We are pleased to announce that the registration for the conference on Advances in Ecological Speciation (AES) is now open!

This conference will take place on the 29th and 30th of April of 2013, at CIBIO facilities in Vairao (near Porto), Portugal. It includes 5 invited plenary talks (see below), 16 oral communications (to be selected) and poster sessions covering the topics parallel adaptation, genomics of ecological speciation, adaptive radiations and hybridization, among others.

Invited Speakers: Dolph Schluter (Biodiversity Research Centre and Zoology Department, University of British Columbia, Vancouver, Canada) Felicity Jones (Friedrich Miescher Laboratory of the Max Planck Society, Tübingen, Germany) Walter Salzburger (Zoological Institute, University of Basel, Switzerland) Sebastien Renaut (Botany Department, University of British Columbia, Vancouver, Canada) Roger Butlin (Department of Animal and Plant Sciences, University of Sheffield, UK)

For more information, please check our webpage at <http://www.aes-cibio.org/> We look forward to seeing you at Vairao, Portugal in April.

ORGANIZATION: Catarina PINHO / PopGen group, CIBIO Jose MELO-FERREIRA / PopGen group, CIBIO Juan GALINDO / University of Vigo Martim MELO / PopGen group, CIBIO Nuno FERRAND / PopGen group, CIBIO Rui FARIA / PopGen group, CIBIO

rui.faria@upf.edu

Roscoff France SexGeneticSystems May22-26

Jacques Monod conference: Recent advances on the evolution of sex and genetic systems, Roscoff (Brittany), France, May 22-26 2013.

DEADLINE FOR REGISTRATION: MARCH 1ST

Organizers: Denis Roze (Roscoff, France), Tanja Schwander (Lausanne, Switzerland)

Conference website: http://www.cnrs.fr/insb/cjm/-cjmprog_e.html The last decade has seen important progress in our understanding of the causes and consequences of the evolution of genetic systems (the structure of the genetic material and its modes of transmission) both on theoretical and empirical grounds. This progress partly derives from the development of new methods and technologies such as genomics and bioinformatics, new statistical methods to explore macroevolutionary patterns, new biological systems for experimental evolution, or studies of the molecular basis of shifts in reproductive systems. At the same time, theoretical and population studies have continued to provide important insights. The goal of this conference is to bring together researchers using these different approaches to study various aspects of genetic systems, including the evolution of sex and recombination, inbreeding vs. outcrossing and the evolution of sexual dimorphism, in order to pinpoint important parameters that need to be measured and determine how new forms of data can be used to make progress on important, yet unsolved evolutionary questions.

The conference will be organized in six sessions:

Advantage of sex and recombination: recent developments on the evolutionary benefits of genetic mixing. Biology of sexual and asexual reproduction: phylogenetic distribution of sexual and asexual lineages; proximate mechanisms inducing shifts in reproductive systems. Evolution of inbreeding vs. outcrossing: theoretical and empirical work on the evolution of mating systems. Evolution of sexual differentiation: the evolution of separate sexes and sexual dimorphism. Evolution of sex chromosomes: genetic determination of sex in plants, animals and fungi Open session: other aspects of genetic system evolution

Invited speakers (provisional titles)

AGRAWAL Aneil (Toronto, Canada) Beneficial mutations and the evolution of intermediate selfing rates

BACHTROG Doris (Berkeley, USA) Transitions of sex chromosomes in Diptera

BARRETT Spencer (Toronto, Canada) The evolution of sex ratios in plant populations

BARTON Nick (Vienna, Austria) Can recombination be maintained by its adaptive benefits?

CASTAGNONE-SERENO Philippe (Sophia-Antipolis, France) Root-knot nematodes: ancient asexuals... or

not?

CHARLESWORTH Brian (Edinburgh, United Kingdom) The evolution of sex and recombination

CHARLESWORTH Deborah (Edinburgh, United Kingdom) The evolution of plant sex chromosomes

DAVID Patrice (Montpellier, France) Natural and experimental evolution of facultative selfing in animals

DE VISSER Arjan (Wageningen, The Netherlands) Adaptation of sexual and asexual populations in rugged fitness landscapes

DELPH Lynda (Bloomington, USA) The genetics of sexual dimorphism in a dioecious plant

DUFAY Mathilde (Lille, France) Evolutionary dynamics of male sterility in flowering plants: do empirical data fit with theory?

GIRAUD Tatiana (Orsay, France) The evolution of sex, mating types, and sex chromosomes: the case of fungi

GLÉMIN Sylvain (Montpellier, France) Adaptation and maladaptation in selfing populations

HAAG Christoph (Montpellier, France) Evolution of partial genetic sex determination in *Daphnia*

JOHNSON Marc (Toronto, Canada) Evolutionary consequences of suppressed recombination and segregation in evening primroses

LENORMAND Thomas (Montpellier, France) Sex and hotspots

LIVELY Curt (Bloomington, USA) Running with the Red Queen: host-parasite coevolution and sex

LOGSDON John (Iowa City, USA) Molecular origins and evolution of meiosis: a sexy tree with old roots and kinky branches

MANK Judith (London, United Kingdom) Sex chromosomes, sex-specific selection and the evolution of sexual dimorphism

MARAIS Gabriel (Lyon, France) Evolution of X dosage compensation in mammals and plants

OTTO Sarah (Vancouver, Canada) On the evolution of sex and the advantage of recombination

PANNELL John (Lausanne, Switzerland) Evolutionary transitions between combined and separate sexes in plants

PERRIN Nicolas (Lausanne, Switzerland) The evolution of sex chromosomes: a perspective from amphibians

PORCHER Emmanuelle (Paris, France) Evolution of selfing rates in plant populations: the interplay of ecol-

ogy and genetics

ROZE Denis (Roscoff, France) Selection for sex and recombination in diploid organisms

SCHÖN Isa (Brussels, Belgium) Causes and consequences of asexuality in non-marine ostracods

SCHWANDER Tanja (Lausanne, Switzerland) Mechanisms underlying transitions from sexual reproduction to parthenogenesis in animals

SHARBEL Tim (Gatersleben, Germany) Molecular evolutionary approaches to elucidating the switch from sex 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/evodir.html>

SanFrancisco EvoCancer Jun12-16

THE SECOND INTERNATIONAL BIENNIAL EVOLUTION AND CANCER CONFERENCE UNIVERSITY OF CALIFORNIA SAN FRANCISCO JUNE 12-16, 2013

The Second International Biannual Evolution and Cancer Conference (IBECC), hosted by the Center for Evolution and Cancer (CEC) and the Helen Diller Family Comprehensive Cancer Center at the University of California San Francisco, will take place in San Francisco at the UCSF Mission Bay Campus, June 12-16, 2013. IBECC 2013 will bring together experts in cancer biology, oncology, evolutionary theory, microbial evolution, and the evolution of multicellularity, from across the world to address the applications of evolution to cancer research and management. The theme of IBECC 2013 is 'From Unicellularity to Multicellularity and Back Again.' The two foci are: 1) cancer suppression in the evolution of multicellularity and 2) applying insights from the evolution of unicellular organisms to the study of cancer. IBECC 2013 will feature a Vision Keynote Speech by former Deputy Director of the National Cancer Institute Anna Barker, Keynote Speaker Mel Greaves a public lecture by Carl Zimmer, plenary talks by Ken Pienta, Judy Campisi, Andrew Read, and David Queller, and a special performance by Baba Brinkman of 'The Rap Guide to Evolution' with a new song about evolution and cancer.

For more information go to <http://cancer.ucsf.edu/evolution/conference-2013> . REGISTRATION OPENS MARCH 1ST, 2013

Sessions include:

Insights from Experimental Evolution Cancer and the Evolution of Multicellularity Dynamics of Somatic Evolution Peto's Paradox, Comparative Oncology and the Evolution of Tumor Suppression Somatic Mutation and Levels of Selection Applying the Tools of Evolutionary Biology to Cancer Life History Theory in Cancer The Evolutionary Medicine of Cancer

Organizers:

Carlo C. Maley, UCSF C. Athena Aktipis, UCSF Aurora M. Nedelcu, UNB

Aurora M. Nedelcu University of New Brunswick Department of Biology PO Box 4400 Fredericton, NB Canada E3B 5A3 phone: (506) 458-7463

Aurora Nedelcu <anedelcu@unb.ca>

Turku Finland ButterflyEvol Aug2014

Dear all,

For those interested in attending the 7th International Conference on the Biology of Butterflies to be held in Turku, Finland in August 2014, please be informed that I have set up a webpage <http://nymphalidae.utu.fi/icbb2014/index.html> that will give up-to-date information as the organization of the meeting progresses. In addition, there is a link to an e-mail list that will be used to disseminate information regarding the conference. Please sign up for the e-mail list if you want to be kept up-to-date about progress. Thanks for your attention!

On behalf of the organizing committee, Niklas Wahlberg

Niklas Wahlberg University Researcher Laboratory of Genetics Department of Biology University of Turku 20014 Turku FINLAND

Nymphalidae Systematics Group: <http://nymphalidae.utu.fi> niklas.wahlberg@utu.fi

UConnecticut Storrs Halophiles Jun23-27

Dear colleagues,

You are cordially invited to participate and submit an abstract to the 10th international congress on halophilic microorganisms - Halophiles 2013, which will be held on the campus of the University of Connecticut, Storrs from June 23rd - 27th 2013.

This conference will bring together an exciting cohort of scientists from many fields of halophile research including but not limited to biodiversity, evolution, ecology, astrobiology, biogeochemistry, biochemistry, physiology, protein structure/function, genetics, genomics, metagenomics, and biotechnology.

Please visit our website for more details. www.regonline.com/halophiles2013 Registration is now open. Fee includes cost of lodging, all meals, entertainment, excursion.

Key Dates: Deadline for Abstract Submission - April 30th Deadline for canceling with full refund - May 24th Deadline for canceling 50% refund - June 7th

Sincerely, Thane Papke, Organizing Chairperson

Dr. R. Thane Papke Assistant Professor Department of Molecular and Cell Biology 91 North Eagleville Rd. Unit 3125 University of Connecticut Storrs, CT 06269-3125 Office: 1-860-486-7963 Fax: 1-860-486-4331 <http://www.papkelab.uconn.edu> robertson.papke@uconn.edu

UGoettingen EvolBiol Mar22-23

Deadline now extended till end of february!

18th**meeting "Graduiertentreffen Evolutionsbiologie" 22.03 - 23.03.2013 Goettingen

*Topics

Metaorganism Evolution *e.g. symbiotic model- and non-model systems

*Evolution of (A-)Sexuality *e.g. model- and non-model organisms that help to understand maintenance

and function of sex

*Experimental Evolution *e.g. any system manipulated in the laboratory or on field sites

*Evolutionary genomics *e.g. molecular methods including NGS data

Invited speakers: Diego Fontaneto Dick Roelofs Sebastian Fraune Christian Schlötterer

YOU are Master- or PhD-student or early Postdoc?

YOU are doing amazing research currently only you are aware of?

YOU want to meet young scientists in your own and related fields to talk about your research?

WE want you! REGISTER NOW!!!

Check out our homepage for more details. Also take a look at our guest speakers which you will meet in real life and very close. <http://dzgevolution.uni-goettingen.de> *Registration is open. No registration fee.*

The working groups of Prof. S. Scheu, Animal Ecology, Evolutionary Ecology and Marko Rohlf are looking forward to meeting you. <http://www.uni-goettingen.de/en/164266.html> <http://www.uni-goettingen.de/en/117468.html> jbast@gwdg.de

UMichigan AnnArbor Macroevolution Mar16 Registration

Dear Colleagues,

We are pleased to announce this year's Early Career Scientist Symposium, to be held Saturday, March 16, 2013 at East Hall, Room 1324, on the campus of the University of Michigan, Ann Arbor. The theme this year is "Macroevolution: Fossils, Frameworks, and Phylogenies."

Our outstanding lineup of up-and-coming field leaders will address cutting-edge approaches for revealing large-scale patterns and processes of evolution, using methods and data from fields as diverse as paleobiology, genomics, systematics, mathematical modeling, ecology and developmental biology. We are pleased to announce our keynote speakers: Dr. Douglas H. Erwin, Santa Fe Institute and Smithsonian National Museum of Natural History and Dr. Robert E. Ricklefs, University of Missouri at St. Louis.

Register to attend and obtain more information by going to

<http://sitemaker.umich.edu/ecss2013/home> . Registration is free of charge but we strongly encourage you to register so we may provide adequate food and refreshment. Graduate students from all universities and all disciplines are invited to present their work during a lunchtime poster session, and can indicate so when they register. University of Michigan EEB students are particularly encouraged to show off their own work and seek feedback from the scholars in attendance. For poster specifications, please refer to: <http://sitemaker.umich.edu/ecss2013/posters>. Lunch will be provided at the poster session and a dinner reception will follow the symposium.

Looking forward to your participation,

Lauren Sallan and Dan Rabosky

On behalf of the rest of the 2013 ECSS organizing committee:

Joseph Brown, Qixin He, Yin-Long Qiu, Valerie Syverson

Lauren Sallan, PhD Assistant Professor, Ecology and Evolutionary Biology & Michigan Fellow, Michigan Society of Fellows University of Michigan Office: 1076 Ruthven Museums Bldg Phone: (734) 764-0477 Websites: www.lsa.umich.edu/directory/faculty/lallan www.LaurenSallan.com Lauren Sallan <laurensallan@gmail.com>

UNotreDame ArthropodGenomics Jun12-15

7th Annual Arthropod Genomics Symposium
ARTHROPOD GENOMICS 2013 ONWARD

Friday, March 1, 2013: Poster Abstracts due if you DO wish to be considered for a General Session Platform presentation.

The 7th Annual Arthropod Genomics Symposium and VectorBase Workshop will be held from June 12 - June 15, 2013, and is hosted by the Eck Institute for Global Health at the University of Notre Dame.

The VectorBase Workshop will begin early afternoon on Wednesday, June 12, 2013, and conclude late afternoon on Thursday, June 13, 2013.

The Arthropod Genomics Symposium will begin Thurs-

day evening, June 13, 2013, and conclude late afternoon on Saturday, June 15, 2013 (an optional dinner is scheduled for Saturday night).

To register for the Arthropod Genomics Symposium or view more information visit:

<http://globalhealth.nd.edu/7th-annual-arthropod-genomics-symposium/> eigh@nd.edu

Uppsala Genetics Adaptation Apr6

Genetics of Adaptation Symposium Saturday 6 April 2013 Evolutionary Biology Center Uppsala University, Uppsala, Sweden

The genetics of adaptation has a rich history, with theoretical foundations in the modern synthesis. This history also includes a great deal of empirical support, such as the seminal work defining ecotypes by Gote Turrenson of Uppsala, Sweden. Since then, a major focus has been ecological and quantitative genetic approaches to identify the traits and loci that are responsible for adaptation. More recently, the availability of genome-wide polymorphism and divergence data has revealed adaptive evolution at many loci, in many species.

This one-day symposium will include research on both trait based and population genetic approaches, with the goal of closing the gap between researchers taking these 2 approaches to the genetics of adaptation.

Speakers Andrea Betancourt, Vetmeduni Vienna Hans Ellegren, Uppsala University Adam Eyre-Walker, University of Sussex Corbin Jones, University of North Carolina Saunak Sen, University of California, San Francisco Matt Rockman, New York University Bruce Walsh, University of Arizona

The Symposium is free of charge, but registration is required. Further details will be provided via the email address you provide.

to register, go to

<http://www.mckaylab.colostate.edu/symposium.html>

Deadline for Registration is 28 February 2013

jkmckay@colostate.edu

Utah Evol2013 Jun21-25

EVOLUTION 2013 - THE ANNUAL EVOLUTION MEETING, JOINTLY SPONSORED BY THE AMERICAN SOCIETY OF NATURALISTS (ASN), THE SOCIETY OF SYSTEMATIC BIOLOGISTS (SSB) AND THE SOCIETY FOR THE STUDY OF EVOLUTION (SSE): <http://www.evolutionmeeting.org/> REGISTRATION AND TALK TITLE SUBMISSION IS NOW OPEN -The meeting schedule will follow that of recent years with a few modifications -On Monday there will be a 1/2 day recess for recreation and field trips -There will be an all-society mixer/award ceremony instead of a banquet on Tuesday evening INCLUDED with your registration fee

The meeting will be held June 21-25, 2013 at the Meeting and Conference Center Snowbird, Utah, USA. The Snowbird Conference Center and Alpine Pedestrian Village is located at 2365 m (7,760 ft) elevation, just a short distance from Salt Lake City International Airport in Little Cottonwood Canyon on the west slope of the Wasatch Range of the Rocky Mountains. Recreation opportunities abound in and near the village/conference site with easy access to hiking, biking, and skiing (conditions permitting). All lodging, meeting rooms, restaurants, shopping, and childcare facilities are just a few minutes walk from each other and all located within the village. Snowbird is surrounded by spectacular views of mountain slopes covered with alpine meadows, cottonwoods, conifers, and impressive rock formations.

RESERVATIONS FOR LODGING IN THE SNOWBIRD ALPINE VILLAGE CAN NOW BE MADE -For reservations by phone please call 800-453-3000 -Please remember to mention "EVOLUTION 2013" when you reserve by phone. -Your reservation for lodging with Snowbird helps reduce registration costs

STUDENT PARTICIPATION IS SUPPORTED BY STUDENT AWARDS OFFERED BY THE SOCIETIES (ASN, SSB, AND SSE) AND BY VOLUNTEER OPPORTUNITIES FOR STUDENTS WITH SOCIETY AFFILIATION TO HELP WITH THE MEETING IN EXCHANGE FOR FREE REGISTRATION

We look forward to welcoming you to Evolution 2013

SEE YOU IN SNOWBIRD!

The Snowbird Organizing Committee (Drs. Fenster, Dudash and Cruzan)

cruzan@pdx.edu

Louise Mead <lsmead@msu.edu>

Utah Evol2013 Jun21-25 UndergraduateEducation

The Society for the Study of Evolution Education Committee will sponsor a new professional development workshop at the Evolution 2013 meeting in June. Please register for the workshop when you register for the meeting.

/Avoiding Extinction in the Classroom: A Professional Development Workshop for Undergraduate Educators./

Evolution is a key biological concept, but it is also a very challenging topic to teach. Join us for a day focused on effective methods and tools for teaching evolution. This workshop is designed for future and current faculty and will include information on national movements to improve undergraduate biology education, evolution resources to use in the classroom, information on how students learn evolutionary concepts and more. The workshop includes lunch and teaching materials and is sponsored by the SSE Education Committee, BEACON, and NESCent.

Sign-up for /Avoiding Extinction in the Classroom/ by paying the \$25.00 fee */when/* registering for Evolution 2013: <https://www.etches.com/ereg/-index.php?eventid=56406&> Registration is limited to 30 participants.

For more information contact Kristin Jenkins (kjenkins@nescent.org), Jamie Jensen (Jamie.jensen@byu.edu) or Louise Mead (lsmead@msu.edu).

– Louise S. Mead, PhD Education Director 567 WILSON RD BPS RM 1441 BEACON Center for the Study of Evolution in Action Michigan State University EAST LANSING, MI. 48824-6457 (517) 884-2560

Utah Evol2013 MSITravelAward

Are you a faculty member at a minority-serving institution (MSI)? Apply now for a travel award to attend Evolution 2013 < <http://www.evolutionmeeting.org/-index.html> > in Snowbird, Utah.

The National Evolutionary Synthesis Center (NESCent < <http://www.nescent.org/> >), with support from the Society for the Study of Evolution (SSE < <http://www.evolutionsociety.org/> >), is pleased to announce travel awards for faculty from Minority Serving Institutions to attend Evolution 2013, as part of our continuing outreach efforts focusing on groups that are under-represented in evolutionary science.

If you are a faculty member at an MSI, HBCU or other institution with significant enrollment of under-represented 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/-Evo2013facultyapp Application Deadline: April 5th, 2013 (Awards will be announced by April 12th, 2013)

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

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

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BangorU ArcticBiodiversity

A NERC PhD studentship is available at Bangor University. We are looking for an enthusiastic and highly motivated student interested in investigating how climate warming affects the genetic diversity of cold adapted Arctic mammal and bird species. The successful PhD student will use state-of-the-art next generation sequencing and ancient DNA technology to reconstruct how genetic diversity in the Arctic has changed since the last ice age. The student will develop novel strategies to predict the future direction of Arctic biodiversity under different climate change scenarios.

The studentship will be based within the Molecular Ecology and Fisheries Genetics Laboratory (MEFGL) (<http://mefgl.bangor.ac.uk/>), situated in the Environ-

ment Centre Wales at Bangor University, UK. Working at the intersection of terrestrial and aquatic ecosystems, the PhD student will profit from the world leading molecular research on aquatic biota carried out at the MEFGL. The MEFGL offers a dynamic and supportive training environment for young scientists, with a team currently consisting of 4 academic staff, 4 post-doctoral scientists and 6 PhD students. The candidate will receive training in next-generation sequencing of ancient and modern samples, population genetics, and environmental niche modelling. Essential qualifications and skills include a BSc degree in Life Sciences or equivalent (2.1 degree or higher), with good numerate skills and a strong enthusiasm for Molecular Ecology. Experience in any aspect of the project (molecular techniques, bioinformatics, population genetics, environmental niche modelling) is highly desirable. Bangor University is committed to a high quality graduate training programme to ensure that the successful candidate has opportunities to further develop their career and skills.

This studentship is subject to NERC funding rules. To check eligibility criteria all applicants must visit the NERC student eligibility webpage before making an application (<http://www.nerc.ac.uk/funding/available/postgrad/eligibility.asp>). Non-UK citizens and UK-citizens that are currently overseas are specifically encouraged to refer to the studentship handbook for detailed eligibility criteria. The successful applicant will receive a stipend and fees will be provided at the NERC rate (see handbook). This research project is in competition for funding with one or more further PhD projects advertised within the School of Biological Sciences at Bangor University. Usually the project that receives the best applicant will be awarded funding. To apply for this project, please send a CV and covering letter with contact details for two referees to the principal supervisor Dr Michael Knapp (http://anatomy.otago.ac.nz/index.php?option=com_content&task=view&id=544&Itemid=46). Dr Knapp will join the MEFGL in May 2013 but may be contacted by email for further details or informal enquiries (Knappmichael@web.de). Closing date for applications: 1st March 2013. Interviews (in person or online) will be scheduled for the week starting April 8th 2013, and the starting date will be October 2013.

Michael Knapp current address: Department of Anatomy University of Otago 270 Great King Street Dunedin 9016 New Zealand email: Knappmichael@web.de

from May/2013 School of Biological Sciences, Bangor University, Deiniol Road, Bangor, Wales Gwynedd, LL57 2UW, UK

michael.knapp@anatomy.otago.ac.nz

BangorU Conservation NGS

NERC PhD Studentship - School of Biological Sciences, Bangor University

Project Title: Assessing the impact of Freshwater Protected Areas through next-generation sequencing of environmental DNA

We seek an enthusiastic and highly-motivated candidate to work on a project at the frontier of conservation science. The project will address gaps in conservation policy by utilising new genetic methods to assess the role of freshwater protected areas in conserving aquatic biodiversity. The successful PhD student will work on

environmental DNA from freshwater samples, and pilot the development of a novel, spatially replicated, long-term genetic monitoring scheme with associated long-term population data (from World Wildlife Fund freshwater protected area programme). Activities will involve a campaign of both sampling and liaising with NGOs, to obtain samples from Southeast Asia. Population genetic data and synchrony in long-term population counts will then be used to develop indicators of functional connectivity for use in applied conservation and ecosystem service assessments.

The studentship will be based within the Molecular Ecology and Fisheries Genetics Laboratory (<http://mefgl.bangor.ac.uk/>), a world leader in the analyses of molecular data from aquatic biota, situated in the Environment Centre Wales at Bangor University, UK, working closely with Dr. Michael Balke, State Museum of Zoology Munich, Germany, and Dr. Thomas von Rintelen, Berlin Museum of Natural History, Germany. The MEFGL offers a dynamic and supportive training environment for young scientists, currently with 4 academic staff, 4 postdoctoral scientists and 6 PhD students. She/He will receive training in next-generation sequencing of environmental samples, population genetics (sample processing and analysis), statistical analysis of large macroecological datasets and working at the science-policy interface. Essential skills are a minimum 2:1 BSc (or equivalent in Life Sciences), with good numerate skills and a strong enthusiasm for conservation science. Desirable skills are statistical analysis using R software, experience in communicating science to a broad audience, population genetics or bioinformatics experience. Bangor University is committed to a high quality graduate training programme to ensure that the successful candidate has access to opportunities to develop their career skills and experience.

Bangor is located in North West Wales, situated in an area of outstanding natural beauty between Snowdonia National Park and the sea (<http://www.bangor.ac.uk/bangortv/bangorandthearea.php>). International links are facilitated easily via both Liverpool and Manchester airports.

For successful eligible applicants, a stipend and fees will be provided at the NERC rate. This studentship is subject to NERC rules for funding. Applicants MUST visit the NERC student eligibility webpage (<http://www.nerc.ac.uk/funding/available/postgrad/eligibility.asp>) to check their eligibility BEFORE making an application. This research project is one of a number of projects at this institution. It is in competition for funding with one or more of these projects. Usually the project that receives the best applicant will be awarded the funding. To apply

for this project please send a CV and covering letter with details of two referees to the principal supervisor. For further details or informal queries please contact the principal supervisor Dr. Mark de Bruyn (http://mefgl.bangor.ac.uk/Staff_info/MarkdeBruyn.php.en) m.debruyn@bangor.ac.uk Proposed assessment schedule: Closing date for applications: 1st March 2013; interview (physical or electronic) scheduled for week starting April 8th 2013; start date October 2013.

References: 1) Scheffers, B. R., Joppa, L. N., Pimm, S. L., Laurance, W. F. (2012) What we know and don't know about Earth's missing biodiversity. *Trends in Ecology and Evolution*, 27: 501-510; 2) Minamoto T., Yamanaka, H., Takahara, T., Honjo, M. N., Kawabata, Z. (2012) Surveillance of fish species composition using environmental DNA. *Limnology*, 13: 193-197; 3) Teruhiko, T., Minamoto, T., Yamanaka, H., Doi, H., Kawabata, Z. (2012) Estimation of Fish Biomass Using Environmental DNA. *PLoS One*, 7(4): e35868; 4) Thomsen, P. F., Kielgast, J., Iversen, L., Wiuf, C., Rasmussen, M., Gilbert, M. T., Orlando, L., Willerslev, E. (2012) Monitoring endangered freshwater biodiversity using environmental DNA. *Molecular Ecology*, 21: 2565-2573.

– Dr Mark de Bruyn http://mefgl.bangor.ac.uk/Staff_info/MarkdeBruyn.php.en email: m.debruyn@bangor.ac.uk Molecular Ecology and Fisheries Genetics Lab Environment Centre Wales

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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>

BangorU FreshwaterBiodiversity

NERC PhD Studentship - Assessing the impact of Freshwater Protected Areas through next-generation sequencing of environmental DNA

We seek an enthusiastic and highly-motivated candidate to work on a project at the frontier of conservation science. The project will address gaps in conservation policy by utilising new genetic methods to assess the role of freshwater protected areas in conserving aquatic biodiversity. The successful PhD student will work on environmental DNA from freshwater samples, and pilot the development of a novel, spatially replicated, long-

term genetic monitoring scheme with associated long-term population data (from World Wildlife Fund freshwater protected area programme). Activities will involve a campaign of both sampling and liaising with NGOs to obtain samples from Southeast Asia. Population genetic data and synchrony in long-term population counts will then be used to develop indicators of functional connectivity for use in applied conservation and ecosystem service assessments.

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Bangor is located in North West Wales, situated in an area of outstanding natural beauty between Snowdonia National Park and the sea (<http://www.bangor.ac.uk/bangortv/bangorandthearea.php>). International links are facilitated easily via both Liverpool and Manchester airports.

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For further details or informal queries please contact the principal supervisor Dr. Mark de Bruyn (http://mefgl.bangor.ac.uk/Staff_info/MarkdeBruyn.php.en) m.debruyn@bangor.ac.uk Proposed assessment schedule: Closing date for applications: 1st March 2013; interview (physical or electronic) scheduled for week starting April 8th 2013; start date October 2013.

References: Scheffers, B. R., Joppa, L. N., Pimm, S. L., Laurance, W. F. (2012) What we know and don't know about Earth's missing biodiversity. *Trends in Ecology and Evolution*, 27: 501-510; Minamoto T., Yamanaka, H., Takahara, T., Honjo, M. N., Kawabata, Z. (2012) Surveillance of fish species composition using environmental DNA. *Limnology*, 13: 193-197; Teruhiko, T., Minamoto, T., Yamanaka, H., Doi, H., Kawabata, Z. (2012) Estimation of Fish Biomass Using Environmental DNA. *PLoS One*, 7(4): e35868; Thomsen, P. F., Kielgast, J., Iversen, L., Wiuf, C., Rasmussen, M., Gilbert, M. T., Orlando, L., Willerslev, E. (2012) Monitoring endangered freshwater biodiversity using environmental DNA. *Molecular Ecology*, 21: 2565-2573.

Mark de Bruyn: m.debruyn@bangor.ac.uk

Dr Mark de Bruyn Molecular Ecology and Fisheries Genetics Lab Environment Centre Wales Biological Sciences Bangor University Bangor, LL57 2UW UK

bss808@bangor.ac.uk

CambridgeU HumanEvolutionaryGenetics

PhD Studentship in Human Evolutionary Genetics Department of Archaeology and Anthropology Vacancy Reference No: JE25652 Limit of tenure applies* Department of Archaeology and Anthropology is pleased to announce a PhD studentship in Human Evolutionary Genetics to start in April 2013. The three-year studentship is available as part of an ERC funded project entitled, An inter-disciplinary approach for identifying evolutionary active regions in the human genome. Start date: 23rd April 2013 Supervisor: Dr. Toomas Kivisild, Dept. Biological Anthropology, University of Cambridge Co-supervisor/Advisor: Dr. Chris Tyler-Smith, WT Sanger Institute The project involves research on the variation of human genome in populations from various climate zones. It will combine evidence from Humanities and Natural Sciences to build realistic demographic models of population differenti-

ation and dispersals over the past 100 thousand years and using high-throughput genotyping and second generation sequencing methods will attempt to reveal regions in the genome that have been affected by natural selection due to environment and life style differences. Applicants should have a Masters degree and/or the equivalent of at least a high 2:1 UK honours degree in one of the following areas: Population Genetics, Bioinformatics, Computational Biology or similar field. Programming skills, experience with computer simulations and familiarity with analysis tools designed for genome-wide genotype and second generation sequencing data will be an advantage. Funding: The studentship provides a starting stipend of £19,919 pa which is expected to cover all college and University composition fees and basic maintenance costs for the duration of the studentship. The studentships are open to all home and EU students. Non-EU applicants can only be considered if they already have the means to cover the fees differential for overseas students. Informal enquiries may be addressed to Dr. Toomas Kivisild at tk331@cam.ac.uk Applications consisting of a full CV, letter of application and a signed CHRIS/6 application cover sheet (Parts 1 and 3 only) with the names and contact details of two referees should be sent to Mrs. Fiona Moore, Department of Archaeology and Anthropology, Pembroke Street, CB2 3DZ, e-mail: fcm30@cam.ac.uk to arrive no later than March 11th 2013. A CHRIS/6 application cover sheet can be downloaded from www.admin.cam.ac.uk/offices/hr/forms/-chris6/ Interviews will take place on 25th - 29th March 2013. * Limit of tenure: 36 months Closing date: 11th March 2013. The University values diversity and is committed to equality of opportunity. The University of Cambridge only advertises their own and college vacancies on this website; we do not advertise any external vacancies. The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

Fiona Moore <fcm30@cam.ac.uk>

Dartmouth MicrobialEvolution

Olga Zhaxybayeva is looking for a highly motivated individual interested in pursuing a Ph.D. in Evolutionary Biology. Research focus of Zhaxybayeva's lab is microbial evolution. We are computational lab that takes advantage of the avalanche of genomic data to learn how microbes evolve and adapt to their envi-

ronments. The work in the lab is necessarily cross-disciplinary and collaborative, with graduate students facing extensive training in molecular evolution, programming, data analysis, mathematical modeling, and use of high-performance computing facilities. For more information about the lab and specific projects, visit <http://www.dartmouth.edu/~ecglab/>. The Graduate Program in Ecology and Evolutionary Biology at Dartmouth College offers a wide range of training opportunities, and our core group of enthusiastic faculty, graduate students and post-docs provide an exciting environment in which to pursue a Ph.D. Generous support is available in the form of fellowships, health care, and discretionary funds for research and travel.

Detailed information about the program, and access to online applications, are available at <http://www.dartmouth.edu/~biology/graduate/eeb/>. Applications are accepted until March 1, 2013. Interested individuals should contact Olga Zhaxybayeva at olgazh@dartmouth.edu.

– Olga Zhaxybayeva, Ph.D. Assistant Professor Department of Biological Sciences Dartmouth College 025 LSC 78 College Street Hanover, NH 03755 USA

Office: (603) 646-8616 Email: olgazh@dartmouth.edu
 Web: <http://www.dartmouth.edu/~ecglab/>
<http://dfd.dartmouth.edu/profiles/907>
Olga.Zhaxybayeva@dartmouth.edu

Duesseldorf Cologne BiodiversityPlantMicrobe

PhD position: Biodiversity of Plant-Microbe Interactions We are seeking a PhD candidate interested in studying the biodiversity in microbial communities associated with plants. This exciting research area is one of four pillars of investigation in the recently awarded Cluster of Excellence in Plant Sciences (CE-PLAS; www.ceplas.eu/en). This cluster is located in the Duesseldorf/Cologne area of Germany and aims to understand the evolution of complex traits in plants.

The specific goal of this three year PhD project is to investigate which species of oomycetes and protists live within roots and shoots of Arabidopsis and close relatives. Standard molecular markers will be used to detect these organisms from DNA extractions of plant tissue. Phylogenetic methods will be applied to classify these organisms. If possible, these species will be cul-

tured. These cultures will serve as the starting point of several follow-up studies. Culturable isolates will be re-inoculated onto hosts to determine how they affect plant growth. To follow the infection process and life-cycle of these microorganisms, a fluorescent label will be incorporated into the microbe (when possible) and the infection and endophytic life will be investigated microscopically. Additionally, whole genome sequencing of these isolates will be performed to serve as the basis of comparative genomic and evolutionary studies on these novel endophytes.

Applicants should have a Master's degree or equivalent in biology or a closely related field. Previous laboratory experience and coursework in organismal biology is explicitly required. The student should have a strong foundation in evolutionary biology, systematics and ecology and excellent communication skills in English. The student will be co-advised by Prof. M. Bonkowski and Prof. L. Rose. Please visit these websites to learn more about the individual labs:

www.uni-koeln.de/math-nat-fak/zoologie/oekologie/agbonkowski/MB-Web1.htm#people or www.popgen.hhu.de/en/unser-team The closing date for applications is Feb. 28, 2013, or when the position is filled. Applicants should send a single PDF file containing: a 1 to 2 page essay describing your previous research experience and career goals, a curriculum vitae, and contact information for at least two referees to: Prof. L. Rose (Laura.Rose@hhu.de).

For questions concerning the position, please contact Prof. M. Bonkowski (m.bonkowski@uni-koeln.de) or Prof. L. Rose (Laura.Rose@hhu.de).

Prof. Dr. Laura Rose Institute of Population Genetics Heinrich-Heine-Universität Universitätsstraße 1 40225 Düsseldorf Germany

Laura.Rose@uni-duesseldorf.de

FU Berlin Germany Conservation Genetics

The Botanic Garden and Botanical Museum Berlin-Dahlem (Germany) is conducting a research and development project on the "Integration of ex situ and in situ measures for the conservation of threatened plants of Germany". Within this project, a selection of threatened plants that are native in Germany will be analyzed with molecular methods. Based on the genetic variabil-

ity and phylogeographic history of populations, conservation scenarios will be worked out. The project has been developed in cooperation with and is financed by the German Federal Agency for Nature Conservation.

For this project we are currently seeking a dedicated PhD student, who will focus on population genetics and phylogeographic analyses of three selected plant species (<http://www.fu-berlin.de/service/-stellen/st.2013/st.20130218.html>). Since the project will also entail collecting trips in Germany as well as communication with governmental agencies and other stakeholders, knowledge of the German language will be beneficial (but not an absolute requirement). The PhD candidate will receive a 2-year PhD fellowship (extendable by 1 year) of 1468 EUR per month.

Requirements:

* University degree in biology or related fields

Desired qualifications:

* Knowledge in conservation and population genetics * Experience with relevant methods in populations genetics and phylogeography, e.g. AFLP and microsatellite screening * Good general knowledge of statistics and statistical software * Very good command of German and English * Motivation and ability to work in an interdisciplinary team

Please send your application (including a letter of motivation, CV, copies of relevant certificates and the names and contact information of at least two referees) with the reference code "GSPC-PHD" until 11 March 2013 to:

Freie Universität Berlin Zentraleinrichtung Botanischer Garten und Botanisches Museum - AV - Königin-Luise-Str. 6-8 14195 Berlin Germany

For further information please contact Dr. Ludo Muller (ludo.muller@fu-berlin.de; Tel. +49 30 838 56539).

ludo_muller@yahoo.com

GenSAP Denmark QuantGenet

PhD student in Quantitative Genetic Models of Complex Traits

The Danish Centre for Genomic Selection in Animals and Plants (GenSAP) is seeking a motivated and productive PhD student to study quantitative genetic models of complex traits.

The goal of GenSAP is to develop the next generation genomic breeding tools for genetic improvement schemes in agricultural plants and animals. GenSAP brings together Danish breeding companies and research groups as well as leading international research groups to make a joint strategic research effort to build the foundation for next generation genomic selection (GS). GenSAP will develop GS methodologies across all agricultural species and integrate and extract relevant information from the massive amounts of data emerging from whole genome sequencing, functional genomics, epigenomics and complex phenotyping technologies. Improved GS models will be developed based on efficient algorithms accounting for e.g. gene-by-gene and gene-by-environment interactions. Advanced computational tools for optimizing and evaluating selection decisions based on in silico data will be developed to ensure a sustainable long-term implementation of GS.

The successful candidate will be affiliated to two GenSAP partner institutions: North Carolina State University and Aarhus University. The candidate will be enrolled in the PhD program in Genetics at North Carolina State University, under the mentorship of Prof. Trudy Mackay and is expected to spend 1-2 years of the PhD study at the Center for Quantitative Genetics and Genomics, Aarhus University, under the supervision of Prof. Daniel Sorensen and Senior Scientist Peter Sørensen.

The candidate will develop novel computational approaches to exploit and integrate multiple layers of genome-wide experimental data, in order to provide novel insights into the genetic architecture of complex traits and improve predictive models of complex traits. The candidate will apply these methods to phenotypic and molecular data sets from the *Drosophila melanogaster* Genetic Reference Panel, a population of 200 fully sequenced inbred lines. This position requires solid quantitative skills, preferably including experience with population genetics or statistics. Skills in scripting and/or programming would be useful.

The studentship offers a generous stipend, with full tuition and health insurance. Interested candidates should send CV including letter of motivation to Peter Sørensen (peter.sorensen2@agrsci.dk) before the 15th of March.

For more information on the PhD project, please contact Senior Scientist Peter Sørensen (peter.sorensen2@agrsci.dk)

For more information on GenSAP please visit www.gensap.au.dk
Louise.DybdahlPedersen@agrsci.dk

defence dynamics and parasite defence.

The GEOMAR, the University of Kiel and the Max Planck Institute for Evolutionary Biology in Plön offer a stimulating research environment with focus on evolutionary biology. The PhD student will have the possibility to join one of our two graduate schools, either the International Max-Planck-Research School (IMPRS) “Evolutionary Biology” or the “Integrated School of Ocean Sciences” (ISOS). Kiel is the capital of the most Northern state of Germany, directly located at the coast of the Baltic Sea. The town offers many opportunities for leisure activities, in particular people enjoying watersports will love the environment.

Expectations:

The successful candidate is required to have a Master or Diploma in Biology, to be highly motivated, to have outstanding social skills and the ability to interact with a team of researchers. A background in evolutionary ecology and the knowledge of immunological and/or molecular biology methods are desired. In addition, the candidate should enjoy snorkeling both in cold and warm waters and stand long field days. Experience in fish handling and aquaria experiments would be a plus.

Salary according to TvÅD 13 (65 %), the project duration is three years. The working environment is English speaking.

Please send applications with CV, one-page statement of research interests and motivation, and the names and addresses of two referees by email to Barbara Moll (bmoll@geomar.de) under the heading “Immunantwort”. Deadline is the 15th of March. Starting date 1st of May or soon thereafter.

For further information about the junior group of Olivia Roth visit <http://www.geomar.de/en/mitarbeiter/-fb3/ev/oroth/> and do not hesitate to ask for more details about the position (oroth@geomar.de).

Olivia Roth <oroth@geomar.de>

IGFL Lyon Crustacean Vision Evolution

Dear friends and colleagues,

I am advertising a PhD fellowship in comparative developmental biology and sensory physiology, which will be part of the Marie Curie programme NEPTUNE.

Details on the fellowship can be found here: <http://www.averof-lab.org/NEPTUNE/> I would be grateful if you could bring this to the attention of potential candidates.

Thanks,

Michalis

Michalis Averof Institut de Génomique Fonctionnelle de Lyon (IGFL) tel. +33-4-26731364 www.averof-lab.org
Michalis Averof <michalis.averof@ens-lyon.fr>

Iceland EvolArcticCharr

*Opportunity for a Ph.D. study in Evolutionary Ecology of Arctic charr in Iceland *

Hólar University College (Prof. Bjarni K. Kristjánsson and Prof. Skúli Skúlason), seeks a Ph.D. student to study Evolutionary Ecology of small benthic Arctic charr (**Salvelinus alpinus**) in Iceland.

Measuring and understanding biological diversity is a key factor in how humans interact with wild nature. This is especially true now as this interaction has resulted in great changes in nature. This is especially obvious for freshwater where knowledge of global diversity of fishes is limited. Studies have shown that diversity within species of Icelandic freshwater fish is considerable, especially among populations and morphs adapted to specific habitats and food. The evolution of this diversity is first and foremost because of diverse and rich freshwater systems, e.g. because of volcanism, tectonic drift and low competition among species. Thus, Iceland offers unique opportunities to study the ecological factors that promote populations change, formation of intraspecific morphs and even new species.

The project focuses on the relationship between ecological factors in the environment and the evolution of diversity in behaviour, growth and morphology of local small benthic charr in Icelandic freshwater systems. Studies have shown that in Iceland there are numerous populations of small benthic charr that have evolved independently in isolated freshwater systems. These systems are commonly cold water springs within the volcanic active zone. The parallel evolution of the small benthic charr populations gives us unique opportunities to study the first steps in the evolution of diversity and speciation. This knowledge is important for the interpretation of the importance of freshwater

fish biodiversity in Icelandic rivers and lakes. This is a key to sensitive managing and use of these systems. In 2012, we started a three year project on dwarf charr in lava caves around Mývatn, funded by the Icelandic Centre for Research, Rannís. The present study we will add to that project focusing on two distinct freshwater systems, with a number of small benthic charr populations. In the project, population sizes will be estimated, and the relationship between ecological variables and growth, behaviour and morphology will be studied. We will estimate how these factors change temporally, within and among years, to estimate natural selection. Furthermore, genetic relatedness within and among populations will be estimated.

The position is funded by Orkurannsóknarsjóur and will be filled as soon as a good candidate is found (target date 1. May 2013).

The student will be located at Hólar University College and registered at University of Iceland. The Department of Aquaculture and Fish Biology, Hólar University College, is situated in Skagafjörður, North Iceland, and is an international centre for research, instruction, and continuing education in aquatic biology, aquaculture, and fish biology. The working language is English.

Applicant should send an application letter with a statement of research interests and relevant experience, curriculum vitae with a list of publications (if any), copies of academic qualifications and the names and e-mail addresses of three referees, as a single pdf file to Bjarni K. Kristjánsson (bjakk@holar.is) before March 31 2013.

Dr. Bjarni K. Kristjánsson, Professor

Holar University College

Háeyri 1

550 Sauárkrókur

Bjarni Kristófer Kristjánsson <bjakk@holar.is>

IowaStateU InsectEvolution

A graduate assistantship is available through the Department of Entomology at Iowa State University (<http://www.ent.iastate.edu/>). The assistantship will include laboratory and field research focused on agricultural pest insects that feed on crops producing insecticidal toxins derived from *Bacillus thuringiensis* (Bt). Interested individuals should send a cover

letter describing their research interests and career goals, the names and contact information of three references, and a curriculum vitae to Aaron Gassmann (aaronjg@iastate.edu).

aaronjg@iastate.edu

LinkopingU 2 BehaviourGenomics

LINKOPINGS UNIVERSITET announces a position as

PhD student in Ethology or Genetics

Department of Physics, Chemistry and Biology (IFM)

University of Linköping, Linköping, Sweden.

Job description

The successful candidate will pursue a PhD-education in Ethology or Genetics (final assignment to topic is open to negotiation), according to the study plans of the department. Within the framework of the ERC-funded project “Genetics and epigenetics of animal welfare”, the PhD student will, together with other staff in the group, be responsible for a broad analysis of behaviour genetics and epigenetics of chickens. Emphasis will be on molecular laboratory work, primarily to carry out extensive analyses of DNA-methylation and genotyping, but practical work with chickens is an integral part of the project. The PhD-student will be involved in breeding and phenotyping of chickens, even though the main part of the job will be purely laboratory based. Furthermore, the PhD-student will be involved in teaching in the biology program up to 20% of the work time.

Requirements

Four years of relevant biology education, with a specialisation in molecular genetics. A masters degree, with a relevant masters project, is considered an advantage. Acquaintance with standard methods in molecular biology is necessary, such as PCR and realtime Q-PCR, pyrosequencing and basic bioinformatics. Knowledge of more advanced methods, such as microarray analysis, meDIP and bisulphite sequencing is a strong merit. Experience of scientific work with chickens is a merit, as well as formal education or experience in ethological theory and methods.

Closing date: 15 March 2013

Further information: Contact Professor Per Jensen,

perje@ifm.liu.se

Per Jensen Professor of Ethology IFM Biology, Linköping University AVIAN Behavioural Genomics and Physiology group Tel: +46 (0)13 281298

Web: <http://www.ifm.liu.se/biology/zoology/-avian/> Web private: www.perjensen.se Per Jensen <perje@ifm.liu.se>

LINKÖPINGS UNIVERSITET announces a position as

PhD student in Ethology

Department of Physics, Chemistry and Biology (IFM) University of Linköping, Linköping, Sweden.

Job description

The successful candidate will pursue a PhD-education in Ethology, according to the study plans of the department. The PhD-project will focus on behaviour genetics in dogs. Within the framework of the ERC-funded project “Genetics and epigenetics of animal welfare”, the PhD student will, together with other staff in the group, be responsible for breeding and phenotyping dogs, and collecting necessary tissue samples for genetic analysis. The PhD student will develop behavioural tests and carry out the actual testing of dogs, which will require extensive travelling within Sweden. Furthermore, the PhD student will, together with other staff in the group, be responsible for building and maintaining a logistics program connected with the breeding and homing of over 200 dogs. The PhD student will also take active part in the lab work required for a large-scale QTL-analysis of behaviour, and in the analysis and interpretation of results. Furthermore, the PhD-student will be involved in teaching in the biology program up to 20% of the work time.

Further information: Contact professor Per Jensen, perje@ifm.liu.se

Per Jensen Professor of Ethology IFM Biology, Linköping University AVIAN Behavioural Genomics and Physiology group Tel: +46 (0)13 281298

Web: <http://www.ifm.liu.se/biology/zoology/-avian/> Web private: www.perjensen.se Per Jensen <perje@ifm.liu.se>

Urban ecology: The impact of traffic-related pollution for genetic and non-genetic adaptation of detoxifying systems in wild birds

PhD studentship (4 years), Lund, Sweden Lund University/ Biological institution Supervisor: Dr Caroline Isaksson, Co-supervisor: Prof. Staffan Bensch

It is well known that humans living in areas with high levels of traffic-related pollution show increased incidence of oxidative stress related diseases such as cancers, pulmonary and cardio-vascular diseases. Previously it has been shown that birds living in polluted areas have elevated antioxidant responses, which may result from an increased oxidative stress. However, the underlying mechanisms that mediate this response and the consequences thereof at the individual- and population-level remain unknown. To investigate the fundamental mechanisms behind oxidative stress the present project will use an interdisciplinary research approach that combines physiology, molecular biology, toxicology, and evolutionary ecology using replicated urban/rural pairs of wild bird populations.

The studentship will be under the umbrella of the above project description but depending on the applicant's interest and previous experiences, we will together tailor a PhD plan within this framework. Thus, we seek a highly motivated and bright student with strong interest in evolutionary ecology. Previous experience with avian field work (ringing and blood sampling), molecular and/or physiological lab work is advantageous.

The fieldwork will mainly be based in southern Sweden (Scania), however, trips across Sweden and Europe is also planned. Field work will occur throughout the year, thus you need to be prepared for lots of physically demanding outdoor activities in good and bad weather. A driving license at the start of the position is essential as it will be required for the fieldwork starting in April 2013.

The student will be based at the Department of Biology Lund University (<http://www.biologi.lu.se/>). The department offers a stimulating international environment with weekly journal clubs, lab meetings and seminars with invited international and national speakers. The lab offers state-of-the-art equipment for molecular work and Lund University offers excellent infrastructure with regards to electronic journals, internet support, student support, and PhD courses. The working language is English.

This studentship is funded 50% by the Swedish research council (Vetenskapsrådet, VR) to Dr C Isaksson and 50% by the unit Evolutionary Ecology. Full funding is available for the project, but the student is encouraged

and expected to also apply for smaller Swedish grants for conference attendance etc. Please send your CV, the name of two referees, and a concise cover letter of your research interests to: Caroline.Isaksson@biol.lu.se. For further information concerning the studentship, please contact Caroline Isaksson.

The deadline for the application is Friday the 15th of February. Interviews will be held in the end of February or in the beginning of March, and the position will be available as soon as possible.

Caroline Isaksson & Staffan Bensch

Dr Caroline Isaksson Associate Senior Lecturer Department of Biology Evolutionary Ecology Unit Lund University Sölvegatan 37 SE-223 62 Lund

Tele: +46 (0)46-2221780

Email: Caroline.Isaksson@biol.lu.se

<http://www.lu.se/life-history-and-functional-ecology/-people/principal-investigators/caroline-isaksson>
caroline.isaksson@biol.lu.se

NMNH Paris InvasionEvolution

A 3 years PhD position is available in Paris, at the National Museum of Natural History, to work on the Evolution of phenotypic and genetic variation during an invasion.

The PhD will be supervised by Vincent Debat (www.evomorpha.org) and Celine Teplitsky (<http://www2.mnhn.fr/cersp/spip.php?rubrique96>)

The starting date will be October 1st, 2013. The PhD consists in a 3- years fixed term contract with the CNRS with 21 000 euros per annum gross salary. The short-listed candidates will be interviewed in May 2013. We are looking for a dynamic and motivated student to perform this PhD. Fluency in French is not requested.

If you wish to apply, please send us the following documents before April, 20th 2013 by email (debat@mnhn.fr and teplitsky@mnhn.fr):

*

A detailed CV, including your previous research experience and the marks or ranking obtained for your Master's degree (or equivalent diploma)

*

A cover letter, stating in particular the match between

your profile and the PhD project,

*

Two reference letters to be sent directly to us by email.

Abstract of the PhD project:

Invasions are considered as natural experiments of evolutionary processes because they often involve strong selection and drift. The spotted wing *Drosophila* (*D. suzukii*), a crop pest, is simultaneously invading Europe and the USA. We propose to take advantage of this situation to investigate the pace of phenotypic evolution of *D. suzukii* along a latitudinal gradient, and study in real time the relative effects of local selection and drift on the phenotypic and genetic variation. We will combine geometric morphometrics, evolutionary quantitative genetics and Next-generation sequencing (NGS). To evaluate evolutionary potential and divergence, G matrices of various phenotypic traits will be estimated for several populations and contrasted to the neutral molecular differentiation. The project will involve field work (in Europe and possibly Asia) and insects rearing.

The Natural History Museum (www.mnhn.fr) is situated right in the centre of Paris, next to Université Pierre & Marie Curie (Paris 6), and a short walk from Ecole Normale Supérieure. The Natural History Museum has recently enjoyed an intensive campaign of recruitment of young researchers in all aspects of biodiversity and evolutionary research, and Paris as a whole has a vibrant research community in the life sciences.

A strong background in evolutionary biology is required. Knowledge in multivariate statistics and/or quantitative genetics is desirable. Experience in molecular biology and/or bio informatics is a plus.

Informal contact with Vincent Debat or Celine Teplitsky are encouraged.

Vincent Debat <debat@mnhn.fr>

QueensU LaurentianU MitigationForMassasaugas

MSc in Biology Opportunity

Effectiveness of Mitigation to Reduce Road Mortality of Massasauga Rattlesnakes

The project will be co-supervised by Dr. Stephen Loughheed (Queens University, Kingston) and Dr. Jacqueline Litzgus (Laurentian University, Sudbury).

The student can choose to enrol at either university.

The project is a partnership among the two universities and the Friends of Killbear Park, and is partially funded by a Species at Risk Stewardship Fund grant from the OMNR.

Killbear Provincial Park has been involved in research, conservation, and education outreach efforts regarding the provincially Threatened Massasauga Rattlesnakes for the past 20 years. The Park has taken significant steps to reduce road mortality of Species at Risk reptiles by constructing four ecopassages and erecting fencing to divert snakes through the ecopassages and under the roads. This provides a unique opportunity to study the effectiveness of ecopassages and to test their practicality for use in the general landscape on existing and proposed new roads to reduce road kill impacts while ensuring habitat connectivity across the landscape. The specific objectives of the project are to: 1. determine if road mortality declines in the area of fencing and ecopassages; 2. determine if rattlesnakes use the ecopassages; 3. determine how many individuals use the ecopassage in a given season; 4. determine whether rattlesnakes change their movement patterns by crossing roads in new areas to avoid the ecopassages and fencing; 5. monitor and assess the population of Massasauga Rattlesnakes at Killbear Provincial Park and ascertain population trends to determine if the fencing and ecopassages are having a negative or positive effect on snake populations. While the focus at Killbear is specifically on rattlesnakes, the lessons learned may also be applicable to other species at risk such as Eastern Foxsnakes, Blanding's Turtles, or Snapping Turtles which are also found in the park and might be detected using the ecopassages.

Interested candidates should submit a cover letter outlining relevant experience, CV, and unofficial transcripts to both Drs. Loughheed (lough@queensu.ca) and Litzgus (jlitzgus@laurentian.ca) via email. Review of applications will begin 1 March 2013 and will continue until a suitable candidate is identified. Fulltime field work (with a field assistant) will commence in spring 2013, and the student may start their MSc program in either May or September 2013.

Jacqueline Litzgus <jlitzgus@laurentian.ca>

StockholmU InsectEvolution

Available: a PhD-position in Ecology at Stockholm

University, the Department of Ecology, Environment and Plant Sciences

Insect ecology: Searching for food in complex environments

Project description Ecological and evolutionary interactions between consumer and resource organisms can be modified by the presence of neighboring organisms. Such neighborhood effects are known from many systems and are common in plant-insect systems, where plant neighbors may affect the strength of interactions between the plant and insect herbivores or between herbivores and their natural enemies. The aim here is to develop and test theory on consumer responses to mixed resource patches; where non-hosts or alternative hosts may affect the probability of attack on a specific resource. The basis for the studies is theory that translates information about the physiological and behavioral processes involved in host search to probabilities of finding and consuming hosts in mixed patches. The thesis work will involve studies of insects that use olfactory cues for host finding, including both behavioural and physiological studies. The work may also involve model studies on insect search.

Further information: <http://www.su.se/emb/english/-about-us/vacancies/phd-position-in-ecology-1.120389> or contact: peter.hamback@su.se

Peter Hambäck <Peter.Hamback@su.se>

Trondheim Biosystematics

PhD position in biosystematics

The Norwegian University of Science and Technology, Museum of Natural History and Archaeology, currently has an open 4 year PhD-position in biosystematics, available from March 1, 2013. The successful PhD-candidate will be part of the systematics and evolution research group at the Department of Natural History, and conduct his/her research in a project on evolutionary processes associated with dispersal within, and hybridization between, closely related species of peat mosses (*Sphagnum*). Both field and laboratory work will be involved in this project. The successful applicant will have a master degree in systematics and taxonomy or closely related fields within evolutionary biology (population genetics, evolutionary ecology). It will be an advantage to have a broad range of interests, including in field biology, and experience of using molecular

techniques to solve general problems in biology.

For more information about the position, please visit <http://www.jobbnorge.no/job.aspx?jobid=90772>, or contact Prof. Hans K. Stenoien, stenoien@ntnu.no. For more information on the city of Trondheim, please visit <http://www.trondheim.no/engelsk/>. Hans K. Stenoien, PhD Museum of Natural History and Archaeology Norwegian University of Science and Technology <http://www.ntnu.edu/employees/hans.stenoien> hans.stenoien@ntnu.no

UBritishColumbia ConservGenomics

Multiple graduate student positions (MSc and PhD) are available in the laboratory of Dr. Michael Russello at The University of British Columbia (Okanagan Campus) in the area of population and conservation genomics starting Summer/Fall 2013. I am looking for highly motivated graduate students to join our group studying fine-scale and range-wide drivers of neutral and adaptive population divergence in a number of systems centering on vertebrate species of conservation concern. There are opportunities for both laboratory and field-based research, although all projects involve the use of high-throughput DNA-based methodologies. Individuals with a population genetics background, bioinformatics experience and strong analytical skills are especially encouraged to apply. Prior experience with molecular laboratory techniques and working in a field setting are desirable.

For more information contact Michael Russello (michael.russello@ubc.ca) and visit the lab website (<http://people.ok.ubc.ca/mirusel/>). Additional information about our Biology graduate program at UBC can be found at the following website: <http://web.ubc.ca/okanagan/biol/graduate.html> Michael Russello Associate Professor Department of Biology University of British Columbia Okanagan Campus Kelowna, British Columbia Canada

michael.russello@ubc.ca <http://people.ok.ubc.ca/mirusel/> michael.russello@ubc.ca

UEastAnglia ButterflyThermalSensitivity

A 3.5 year PhD project is available at the University of East Anglia, Norwich, UK investigating "Understanding thermal sensitivity of male fertility in butterflies". The successful applicant will be based in the research group of Prof. Matt Gage (m.gage@uea.ac.uk).

Applications must be received in full by 28th February 2013. Further details and information on how to apply can be found at <http://www.uea.ac.uk/study/-postgraduate/research-degrees/science/biological-sciences>. Project Description Male fertility is specifically fragile to increases in temperature that organisms often experience in the natural environment. This sensitivity has been well known for decades in homeotherms: adaptations that allow testicular cooling of 2 to 8°C below core body temperature in mammals, for example, are essential to allow normal male fertility, and experiments where gonadal or ambient temperatures were elevated revealed subsequent declines in male fertility (review in Setchell 1998).

This thermosensitivity of male fertility is now increasingly recognised in cold-blooded poikilotherms, whose physiology is more directly affected by environmental thermal change. In *Drosophila* fruitflies, for example, it is the specific thermal sensitivity of male fertility that makes populations non-viable above 30°C as this is the threshold where males (not females) become sterile (David et al. 2005). Because of climate warming and increases in heatwave frequencies, we need to know what reproductive traits in males are damaged by heat, whether they can acclimate or 'harden' and recover, if local adaptation has evolved, and ultimately the consequences for population viability. This PhD project will address these questions in a group where good evidence for local extinction under climate warming exists: butterflies.

Using laboratory culturing and experimentation with temperate zone satyrid butterfly species, sourced from warmer and cooler natural regimes, the PhD will determine (1) the specific effects of heat stress on male reproductive function at different life stages under different thermal regimes, (2) whether temperature-adapted sub-populations within species exist, and (3) the extent and rate of acclimation and recovery of male fertility. We will measure form, function and number of eupyrene

and apyrene sperm after thermal treatments at different life stages, in parallel with male behaviour, fertility and sperm competitiveness following experimental matings. Male reproductive effects will be measured in parallel with female effects (which for most species so far examined show much reduced sensitivity to equivalent heat stress). Once controlled experiments have isolated the details of hyperthermia on male reproductive function in the lab, we will take this information to the field, and measure natural fertility across spatial and temporal thermal ranges within species. At the project conclusion, we aim to have identified in an important taxon: which fertility phenotypes are damaged by heat stress, how they are damaged, the developmental plasticity and ability of these phenotypes to recover, and ultimately whether this specifically sensitive individual male trait could explain why some butterfly populations have disappeared from their southern ranges.

The student will join an active, NERC-funded research environment, in which the supervisors focus on studying the evolution and ecology of animal reproduction in the lab and field (e.g. Wedell et al. 2002, Thomas et al. 2006, Michalczyk et al. 2011, see more about our groups and interests at www.uea.ac.uk/bio/People/Academic/-Matthew+Gage and www.uea.ac.uk/environmental-sciences/people/facstaff/francoa). Techniques applied will include butterfly rearing, mating and behaviour assays (in UEA's new Constant Environment Facility), microdissection, microscopy and image analysis (in UEA's excellent Bio-imaging suite), experimental design, fieldwork, project management and statistical analysis, as well as all the core skills demanded by an exciting multidisciplinary PhD project.

References 1. David JR, Araripe LO, Chakir M, Legout H, Lemos B, Petavy G, Rohmer C, Joly D & Moreteau B (2005) Male sterility at extreme temperatures: a significant but neglected phenomenon for understanding *Drosophila* climatic adaptations. *Journal of Evolutionary Biology* 18, 838-846. 2. Michalczyk ©, Millard AL, Lumley AJ, Martin OY, Emerson BC, Chapman T & Gage MJG (2011) Inbreeding promotes female promiscuity. *Science* 333, 1739-1742. 3. Setchell BP (1998) Heat and the testis. *Reproduction* 114, 179-194.

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UEastAnglia FruitfliesLifeHistory

A 3.5 year PhD project is available at the University of East Anglia, Norwich, UK investigating "Evolutionary mismatches between life histories and environments". The successful applicant will be based in the research group of Prof. Tracey Chapman (tracey.chapman@uea.ac.uk)

Applications must be received in full by 28th February 2013. Further details and information on how to apply can be found at <http://www.uea.ac.uk/study/-postgraduate/research-degrees/science/biological-sciences>. Project Description When environments vary over time and space individuals can be mismatched' - in an environment to which they are not adapted. In the short term, individuals may show plastic responses, which can buffer deleterious effects. Given sufficient evolutionary time and selection, organisms will also adapt genetically. This project aims to explore these ideas in a novel conceptual framework developed from hominin evolution.

Modern human life histories were selected in a very different environment to that now experienced in industrialised countries. This very recent mismatch' may explain the rapid and continuing rise in obesity and type 2 diabetes. The thrifty genotype' hypothesis proposes that individuals selected in an environment of periodic food shortage will be efficient storing fat when food is plentiful. However, in environments in which food is in continual excess, such a genotype is maladaptive. A second variation on this idea is plasticity to the prevailing environment (thrifty phenotype'). Here, during development, the likely quality of the environment into which the individual will emerge is assessed'. Thus traits such as insulin sensitivity are plastic and can be set' during development. However, if the environment changes rapidly, the organism is set for the wrong environment, with deleterious consequences.

These ideas have untapped potential and broad relevance for the ecological domain. The aim is to exploit this by investigating untested predictions of the thrifty phenotype and genotype hypotheses, using ecologically relevant manipulations of diet in the fruitfly model system. The main aims are:

1. To measure genetic variation in thrifty genotype'

This hypothesis proposes that increased efficiency of fat storage is advantageous when food supply is variable / scarce. The PI's lab created 3-fold replicated

experimental evolution lines over 10 years ago in which food supply is either regular' or random'. The random lines experience periods of starvation and glut and should therefore be selected for high efficiency fat storage. Total lipid storage and circulating sugars levels will be quantified. The full life history (lifespan, reproductive output) of the random and regular regimes will also be characterised.

2. To measure genetic variation in the expression of thrifty phenotype'

In additional experimental evolution lines we have replicated regimes that experience good quality food during development, but emerge onto either a high or low quality adult diet. Hence low adult diet individuals are mismatched' over evolutionary time. We will conduct the tests above to determine the significance of these mismatches.

3. To measure the extent of plasticity in matching' of genotype to phenotype

The student will create proximate mismatches between developmental and adult environments by placing cohorts of wild type individuals on different larval and adult diets. This will show the extent of plasticity to mismatched environments. The full range of tests will be conducted as above.

Training: The student will enter UEA's personal and professional development programme. Through this they will gain personally tailored training in generic skills, career development and employability. Specific skills include analysing responses to experimental evolution, life history assays, biochemical tests of nutrient levels and quantitative analyses.

References Fricke, C., Bretman A. & Chapman, T. (2009) Female nutritional status determines the magnitude and sign of responses to a male ejaculate signal in *Drosophila melanogaster*. *J. Evol Biol.* 23, 157-165. Barnes, A.I., Wigby, S., Boone, J., Partridge, L. & Chapman, T. (2008) Feeding, fecundity and lifespan in female *Drosophila melanogaster*. *Proc. R. Soc. B.* 275, 1675-1683. Fricke, C., Bretman, A. & Chapman, T. (2008) Adult male nutrition and reproductive success in *Drosophila melanogaster* *Evolution* 62, 3170-3177. Review papers: Flatt, T., and Schmidt, P.S. 2009. Integrating evolutionary and molecular genetics of aging. *Biochimica et Biophysica Acta.* 1970:951-962. Partridge, L., M. D. W. Piper, et al. (2005). Dietary restriction in *Drosophila*. *Mech AgeDev* 126: 938-950

Martin Taylor <nitram8@hotmail.com>

UEastAnglia NeotropicalCatfish

PhD position: Polyploidy and immunity in Neotropical catfishes.

A three year PhD project is available at the University of East Anglia, Norwich, UK investigating the role of polyploidy in immunity in Neotropical catfishes. The successful applicant will be based in the research group of Dr Martin Taylor (www.uea.ac.uk/~b141).

Project Description. Ancient whole genome duplications (WGDs) and the additional genetic resources resulting from them have played major roles in the evolution many eukaryotes. In vertebrates, there is strong evidence that two rounds of ancient WGD were followed by a third additional WGD in the teleost fishes - the fish specific genome duplication (FSGD). The role that WGD plays in the evolutionary success of recipient taxa and lineages has been hotly debated for many decades. However, while progress has been made in understanding the origins and mechanisms of the formation of polyploids in many groups, less attention has been devoted to the advantages and/or disadvantages of being a polyploid. This PhD project will investigate two related facets of individual fitness - immune gene diversity (the MHC) and macroparasite burden, in a group of neotropical catfishes (the Corydoradinae) that have undergone multiple WGDs, ranging from ancient paleopolyploid events (~40 mya) to relatively recent duplications (~1-2 mya). The Corydoradinae are widely over South America and comprise more than 170 described species divided into 9 lineages. The group demonstrate multiple genome duplication events (polyploidy) and also exhibit complex mimetic colour pattern relationships. Using sympatric communities of species (which should theoretically be exposed to the same parasites) that vary in ploidy level, this project will: 1) use next generation sequencing to quantify MHC diversity in taxa that range from diploid to potentially 16x ploid; (2) quantify macroparasite burdens in multiple sympatric communities consisting of diploid and polyploid species (3) investigate the role of additional host-specific factors that may influence macroparasite burdens such as size, age, diet and population demographics. The successful applicant join the group of Dr Martin Taylor who has recently moved to UEA (see 2) and will receive training in next generation sequencing and associated bioinformatic analysis as well as more

traditional techniques such as parasitology. There will also be opportunities for conducting fieldwork in South America with Brazilian collaborators.

References (1) Alexandrou, M., Oliveira, C, Maillard, M, McGill, R.A.R., Newton, J., Creer, S. and M. I. Taylor. (2011) Competition and phylogeny determine community structure in M?llerian co-mimics. *Nature* 469:84-88, 2011. DOI:10.1038/nature09660.

The successful applicant is likely to have some experience in techniques used in molecular ecology.

Applications must be received in full by 28th February 2013. Further details and information on how to apply can be found at <http://www.uea.ac.uk/study/postgraduate/research-degrees/science/biological-sciences> . Informal enquiries are welcome - contact Martin Taylor (martin.taylor@uea.ac.uk)

nitram8@hotmail.com

UEast Anglia Telomeres Seychelles Warblers

A 3.5 year PhD project is available at the University of East Anglia, Norwich, UK investigating "Telomeres as biomarkers of costs and quality in a wild population of Seychelles warblers". The successful applicant will be based in the research group of David Richardson (david.richardson@uea.ac.uk).

Applications must be received in full by 28th February 2013. Further details and information on how to apply can be found at <http://www.uea.ac.uk/study/postgraduate/research-degrees/science/biological-sciences> . Project Description Every organism has a finite amount of resources it can use to survive and reproduce. Resources spent on one area, e.g. health, cannot be spent on another, e.g. reproduction. Consequently organisms must work out how best to spend their resources so as to maximise the benefits they gain. Such trade-offs are central to the evolution of different life-history strategies, i.e. why organisms differ in aspects such as size, reproduction rate and lifespan, a fundamental part of biology. The problem is that, although it is relatively easy to assess the benefit of investment in an area, to understand trade-offs we also need to know the costs. Unfortunately, measuring these has proved to be extremely difficult, especially in wild animals.

Telomeres are long, specialized regions of DNA which

protect the ends of chromosomes and prevent the genes from getting damaged or mixed up when the cell replicates. However, a section of telomere is lost with each replication and when telomeres reach a critical short length the cell stops functioning. Accumulation of these dysfunctional cells in the bodies' tissues contributes to organismal senescence and mortality. Importantly the rate at which telomeres shorten is also greatly affected by oxidative stress - the organisms' inability to cope with the damaging waste particles of metabolism. Furthermore, oxidative stress/telomere shortening is influenced by life history and environmental stresses (e.g. accelerated growth or infection). Telomere shortening can, therefore, indicate the biological cost that such stresses exact on an individual and provide an important link between these and the aging process.

The student will use the unique Seychelles warbler (SW) system1-3 to undertake a longitudinal study of telomeres in a wild population. The long-term study of an isolated island population means we have detailed information on the factors experienced by individuals each year, linked to annual blood samples taken from those individuals. We also have accurate measures of survival and reproductive success3. We recently developed a method to measure telomeres from blood samples4 and have shown that telomere shortening reflects biological ageing in the SW: telomere shortening with age differs between individuals and predicts survival and recruitment5. The proposed PhD will now investigate the relative costs of different stresses/experiences by relating annual telomere-shortening rate to the stresses they have faced in that year.

Experimental manipulations will allow them to hone in on specific factors, i.e. reproductive effort and helping behaviour. Importantly comparisons, not only between stresses, but also in respect to the age and life-history stage at which they are experienced, can be made. This will allow the student to compare how the costs and benefits of investment in different life-history components, or in dealing with environmental stresses, are traded off. Finally, the student will test the idea that individual variation in telomere shortening reflects an individual's ability to withstand these stresses and, therefore, provides an indicator of individual quality.

The student will be involved in all aspects of field and laboratory work and collaborate with an international team of researchers working on the SW.

References - Richardson DS, Komdeur J, Burke T. (2003) Altruism and infidelity in the Seychelles warbler. *Nature* 422, 581 - Richardson DS, Burke T, Komdeur J, von Schantz T (2005) MHC-based patterns of social

and extra-pair mate choice in the Seychelles warbler. *Proc. Roy. Soc. B.* 272 (1564): 759-767 - Brouwer LB, Barr I, van de Poll M, Burke T, Komdeur J. & Richardson DS. (2010) MHC-dependent survival in a wild population: evidence for hidden genetic benefits gained through extra-pair fertilisations, *Molecular Ecology*, 19, 3444-3455. - Barrett ELB, Boner W, Mulder E, Monaghan P, Verhulst S, Richardson DS (2012) Absolute standards as a useful addition to the avian quantitative PCR telomere assay. *J. Avian Biology* 43:571-576 - Barrett ELB, Burke TA, Hammers M, Komdeur J, Richardson DS (2012) Telomere dynamics predict mortality in a life-long longitudinal wild study. *Molecular Ecology*

Martin Taylor <nitram8@hotmail.com>

UExeter CrayfishGenomics

PhD studentship: Identifying virulence factors in two highly pathogenic aquatic *Aphanomyces* species - causative agents of crayfish plague and epizootic ulcerative syndrome

The genus *Aphanomyces* is responsible for two OIE notifiable diseases in animals: crayfish plague and epizootic ulcerative syndrome (EUS). Crayfish plague is a devastating and fatal disease of freshwater crayfish species and is responsible for the decline of native crayfish throughout the whole of Europe. It currently threatens to wipe out the white-clawed crayfish, the UK's only native species, which is now on the IUCN list of threatened species 2012. The causative agent is the oomycete protozoan *Aphanomyces astaci*, which arrived in Europe in the late 19th century via the introduction of North American crayfish, which can carry the disease without displaying any disease symptoms. EUS in fish is caused by another *Aphanomyces* species: *A. invadans*. This parasite has led to large fish mortalities in Asia, Australia and more recently Africa, with substantial economic impact for the affected areas. There is a real danger that *A. invadans* will be introduced to the UK through the ornamental fish trade. As *A. invadans* is an aquatic pathogen that can infect most, if not all, fish species, the consequences for fish in the UK could be devastating.

Despite their importance, very little is known about pathogenicity mechanisms and virulence factors. As *A. astaci* causes a fatal disease in European crayfish but not in North American species, host-specific factors are

expected to play an important role in the disease mechanism. Oomycetes such as *Aphanomyces* are among the most important groups of disease-causing organisms in both agriculture and aquaculture and thus represent a threat for global food security and biodiversity. There are currently no control treatments or control measures available for these pathogens.

The aim of this project is to begin to understand the biology of the causative agents of crayfish plague (*A. astaci*) and EUS (*A. invadans*), using genomics and transcriptomics. The aim of the PhD is identify and analyse putative virulence factors and host-specificity factors in order to understand the evolution of these pathogens. Bioinformatics methods will be used to analyse nucleotide sequence data generated with state-of-the-art next-generation sequencing methods and there will be the opportunity to develop new computational tools to identify and compare virulence factors between *Aphanomyces* species and other oomycetes.

This award provides annual funding to cover UK/EU tuition fees, a stipend, payment for 110 hours of work (teaching-related activities) and a contribution towards research costs. For students who pay UK/EU tuition fees the award will cover the tuition fees in full, plus £13,726 per year (covering stipend and work payment). Students who pay international tuition fees are eligible to apply, but should note that the award will only provide payment for 110 hours of work and part of the international tuition fee. Studentships will be awarded on the basis of merit and are awarded for three years of full-time study (part-time pro-rata).

Entry requirements: You must have obtained, or be about to obtain, a First or Upper Second Class UK Honours degree in Biological Sciences, or the equivalent qualifications gained outside the UK, in a relevant subject. We seek an adaptable scientist with a combined aptitude for laboratory-based study and bioinformatics analyses. Specific experience in molecular biology and bioinformatics is preferred.

Informal enquiries can be made directly to Dr. Mark van der Giezen (m.vandergiezen@exeter.ac.uk) and Dr. Birgit Oidtmann (birgit.oidtmann@cefaco.co.uk).

The closing date for applications is midnight on Monday 11th March 2013.

How to apply: Please upload the following documents to the studentship application form - Click here to apply (see <http://www.exeter.ac.uk/postgraduate/-money/studentships/application/>)

- CV - Covering letter (outlining your academic interests, prior research experience and reasons for wish-

ing to undertake the project). - Transcript(s) giving full details of subjects studied and grades/marks obtained (this should be an interim transcript if you are still studying) - 2 references (if your referees prefer, they can email the reference direct to cles-studentships@exeter.ac.uk)

If you have any general enquiries about the application process please email cles-studentships@exeter.ac.uk or phone +44 (0)1392 725150/723706/723310.

Mark van der Giezen <M.vanderGiezen@exeter.ac.uk>

UExeter EvolHumanCooperation

Fully funded NERC PhD studentship on the evolution of cooperation in humans at the University of Exeter, UK

Title: The effects of demography and migration on cooperation and competition in humans

Supervisors: Dr. Shakti Lamba and Prof. Michael Cant

Full details of studentship:

<http://www.exeter.ac.uk/studying/funding/award/?id=1162> *Project Description*:

The aim of this project is to examine whether demographic features of populations, particularly different patterns of migration, affect the degree and scale of cooperation amongst individuals. Cooperation, defined in the evolutionary sciences as behavior that benefits others at a cost to the actor, is a cornerstone of human social organization. The degree and scale of cooperation varies considerably across human populations and many authors have attributed this variation to cultural differences. However, it remains unclear what drives this cultural variation. A substantial body of theory in evolutionary biology predicts that demographic characteristics of populations, such as their size and patterns of migration, may be important drivers of cooperation and competition. The PhD candidate will test these models in populations of two small-scale societies in India using a combination of economic games, behavioural surveys and quantitative observations. The project will involve extended periods of research in field conditions in rural India. The candidate will acquire key transferable skills in experimental design, survey design, fieldwork and multi-level statistical modelling. The study is particularly topical as it addresses debates

about the effects of migration on the social structure and cohesion of societies.

**

Eligibility requirements:

You must have obtained, or be about to obtain, a First or Upper Second Class UK Honours degree, or the equivalent qualifications gained outside the UK, in a relevant subject. The studentship will cover a stipend at the standard Research Council rate (£13,726 per annum for 2013-2014), research costs and tuition fees at the UK/EU rate for students who meet the residency requirements outlined by NERC (see <http://www.nerc.ac.uk/funding/-available/postgrad/eligibility.asp>). Students from EU countries who do not meet the residency requirements may still be eligible for a fees-only award.

For informal enquiries contact Dr Shakti Lamba (s.lamba@exeter.ac.uk).

Application deadline:

28th February, 2013

Apply here: <http://www.exeter.ac.uk/studying/-funding/award/?id=1162>)

– Shakti Lamba Lecturer in Human Behavioural Ecology Centre for Ecology and Conservation School of Biosciences University of Exeter Cornwall Campus Penryn TR10 9EZ United Kingdom

http://biosciences.exeter.ac.uk/staff/-index.php?web_id=Shakti_Lamba Tel: +44 (0)1326 255165

S.Lamba@exeter.ac.uk

UExeter EvolutionaryBiology

Masters Distinction Scholarships of £5,000 are available for 2013.

A suite of scholarships are available for students from across the world to study at the University of Exeter Cornwall Campus next year. The University of Exeter is the current Sunday Times University of the Year and all of our MSc programmes have a significant research components and include major evolution and evolutionary ecology components.

Find out more at www.exeter.ac.uk/lifesciences/-postgraduate/cornwall Specific programmes include:

MSc Applied Ecology MSc Climate Change and Risk Management MSc Conservation and Biodiversity MSc Conservation Science and Policy MRes Environment, Energy and Resilience MSc Evolutionary and Behavioural Ecology

DJ Hosken <D.J.Hosken@exeter.ac.uk>

UFlorida Butterfly Systematics

Graduate Research Assistantship position at the McGuire Center for Lepidoptera, Florida Museum of Natural History (FLMNH)

A Graduate Research Assistantship (RA) position is available for a starting MSc or PhD student at the University of Florida's Department of Biology or Department of Entomology and Nematology. The RA will be based at the McGuire Center for Lepidoptera of the Florida Museum of Natural History, and will form an integral part of the team working on the project "ARTS: Phylogeny and systematic revision of the diverse and cryptic Euptychiina (Lepidoptera, Nymphalidae, Satyrinae)". This NSF-funded project will build phylogenies using morphology, Next-Gen and traditional molecular data, and revise the species- and genus-level systematics of the Euptychiina, one of the most diverse radiations of butterflies in Neotropical lowland forests and grasslands.

The successful candidate will be expected to complete a monographic systematic revision of one of several priority Euptychiina genera for their thesis research. The student will use both morphology and modern molecular methods, including receiving training in next-generation sequencing and bioinformatics, to infer phylogenies and delimit species, and will revise the classification with descriptions of new taxa where necessary. The student will also have excellent opportunities to broaden their research into the fields of biogeography, evolutionary ecology and conservation. The student's assigned work will include curatorial tasks relevant to the project, including preparation, identification, databasing, digital imaging, integration and organization of Euptychiina butterfly specimens in the FLMNH.

The ideal candidate should be highly motivated and have a proven ability to conduct field- or collection-based studies of butterflies or another diverse organismal group, and a demonstrable enthusiasm to pursue their own research into the systematics of butterflies.

Familiarity with the geography of the Neotropical region, an interest in tropical ecosystems and experience with curating insect collections would be valuable.

The RA is available for two years and includes an annual stipend, health insurance contribution and tuition waivers for all semesters. In addition, there is potential funding for field trips to South America, to visit museum collections in USA and Europe, and for visits to international and/or national conferences.

Applicants should submit the following: 1. A summary, 1-2 page curriculum vitae 2. A letter of interest describing past and current research and fieldwork experience and longer term career goals. 3. Three letters of recommendation from professional referees qualified to comment on your academic and personal abilities to conduct independent research. 4. A copy of any piece of independent research, scientific article, thesis, presentation, poster, or other material that supports the application.

Submit application materials to Keith Willmott (kwillmott@flmnh.ufl.edu) by February 28th, 2013. For questions regarding this position please contact Keith Willmott at the above e-mail address. For further information about current research on butterflies at the FLMNH and on application procedures to the University of Florida, see http://www.flmnh.ufl.edu/butterflies/neotropica/-grad_MGCL.html kwillmott@flmnh.ufl.edu

UHull Conflict Behaviour

Conflict, behaviour and reproduction in mammals

Supervisor: Dr Isabella Capellini

Applications are invited for a PhD studentship to commence on 30th September 2013. The studentship will cover tuition fees and provide a tax-free home bursary (£13,726 in 2013/14) for a UK/EU student for 3 years.

Aim of the project What are the factors promoting the evolution of male care of the offspring, infanticide and sibling rivalry? What are the evolutionary consequences of such behaviour on reproductive and life history traits? This project investigates questions on how behaviour influences the evolution of reproductive and life history traits in mammals, as predicted by parent-offspring conflict theory and sexual conflict theory. You will also test hypotheses on the role of social and ecological factors in promoting the evolution of these be-

haviours. You will build a large database containing behavioural data for numerous mammalian species and employ a range of phylogenetic comparative methods to test relevant hypotheses. This is a bioinformatics project with no experimental or field work involved. This interdisciplinary project is based on previous results on the evolutionary architecture of reproduction in female mammals (Capellini et al. 2011 Am Nat, Barton & Capellini 2011 PNAS) and expands it by including behaviour. This project bridges across evolutionary biology, behavioural ecology and reproductive biology, and offers the opportunity to gain fundamental theoretical and critical thinking skills, learn an array of cutting edge statistical methods and acquire several transferable skills. You will work within a highly stimulating environment in the School of Biological, Biomedical and Environmental Sciences at the University of Hull. The University of Hull also offers a range of modules on research and transferable skills for postgraduate students.

Please contact Dr Capellini (I.Capellini@hull.ac.uk) for further information or if you have any question.

Entry requirements. Essential. Applicants hold, or are expected to hold, a first class or at least an upper second class Honours degree (or equivalent) in biology, ecology, zoology or related discipline. You need to have good knowledge of and strong interests in evolutionary biology, a curious and inquisitive mind, and willingness to learn phylogenetic comparative methods. You will receive considerable training in comparative methods and statistics but you should also be enthusiastic, self-motivated and able to work independently.

Desirable. A Masters degree in a relevant discipline, experience with phylogenetic comparative methods and/or R, and previous research experience in evolutionary biology and/or behavioural ecology, will be an advantage.

Application deadline: 1st of April 2013

Application procedure. Please send your CV, your grade transcripts, and a cover letter detailing your reasons for applying to this project. Submit your documents through the online system of submission. Please also indicate 2 referees and arrange for their references to be sent independently. For details on how to submit your application online, please see: <http://www2.hull.ac.uk/student/admissions/postgraduate/howtoapply/researchmastersphd.aspx>

Dr Isabella Capellini

School of Biological, Biomedical and Environmental Sciences University of Hull Cottingham Road HU6 7RX (U. K.)

Personal website <http://tinyurl.com/icapellini> Evo-

lutionary architecture of mammalian reproduction <https://www.dur.ac.uk/reproductionproject/> Phylogeny of Sleep <http://www.bu.edu/phylogeny/> Isabella Capellini <isab972@yahoo.co.uk>

UKentucky EvolutionaryEcology

Graduate student positions available within the “Evolutionary Ecology Training Group” in the Department of Biology at the University of Kentucky. This group is focused on understanding the evolutionary forces shaping organismal traits and their influence on population and community structure. We blend theoretical approaches with a variety of empirical techniques. We integrate across levels of biological organization and explore mechanistic, developmental, historical, and functional perspectives. Topics of interest include life history traits, phenotypic plasticity, and disease-host, predator-prey, spatial evolutionary dynamics, male-female and other social interactions. Please consult the web sites of the following faculty members for details:

Dr. Philip Crowley: <http://bio.as.uky.edu/users/-pcrowley> Dr. Gisela Garcia: <http://bio.as.uky.edu/users/ggarc0> Dr. Scott Gleeson: <http://bio.as.uky.edu/users/skglees> Dr. James Krupa: <http://bio.as.uky.edu/users/bio149> Dr. Nicholas McLetchie: <http://bio.as.uky.edu/users/mclet> Dr. Craig Sargent: <http://darwin.uky.edu/~sargent/> Dr. David Westneat: <http://web.as.uky.edu/biology/faculty/Westneat/westneat.html> Potential applicants are strongly encouraged to contact one or more of the above researchers to discuss opportunities for starting Fall 2013 or beyond. All incoming Biology Graduate Students receive full financial support in the form of Scholarships, Fellowships, Research Assistantships, or Teaching Assistantships. Applicants of all nationalities are encouraged to apply. For more information about the Biology Graduate Program within which the EETG resides, please visit <http://bio.as.uky.edu/grad-program> . ggarc0@uky.edu

ULausanne EvolutionMelanism

PhD position at the Department of Ecology and Evo-

lution in the group of Prof. Alexandre Roulin

Association between melanism, physiology and behaviour: a role for the melanocortin system

The melanocortin system is implicated in the expression of many phenotypic traits. Activation of the melanocortin MC1 receptor by melanocortin hormones induces the production of brown/black eumelanin pigments, while activation of the four other melanocortin receptors affects other physiological and behavioural functions including stress response, energy homeostasis, anti-inflammatory and sexual activity, aggressiveness and resistance to oxidative stress. We recently proposed the hypothesis that some melanocortin-physiological and -behavioural traits are correlated within individuals. This hypothesis predicts that the degree of eumelanin production may, in some cases, be associated with the regulation of glucocorticoids, immunity, resistance to oxidative stress, energy homeostasis, sexual activity, and aggressiveness. Studies performed in the barn owl are consistent with the hypothesis that covariations between melanin-based coloration and other phenotypes are due to the melanocortin system. A very important step to demonstrate this hypothesis is to perform genetic studies using samples of free-living barn owls. The aim of this PhD is therefore (1) to look for polymorphism in the coding sequence of genes belonging to the melanocortin system and (2) to measure their expression levels. This study will be done also in interaction with circadian rhythm and a number of environmental factors. This PhD will offer a unique opportunity to combine field and lab work. Potential candidates should have a strong interest in evolutionary biology. (S)he should enjoy field work (carried during the day but also often at night) and have very good experience in molecular work. Very good knowledge of R-Statistics is required as well as the ability to write scientific papers. The PhD can start immediately and will last between 3 and 5 years.

A motivation letter, CV, any published paper or master thesis and the name of 2 to 3 scientists who know you should be sent by email to: Alexandre.Roulin@unil.ch

Alexandre Roulin University of Lausanne Departement of Ecology and Evolution Building Biophore 1015 Lausanne

alexandre.roulin@unil.ch

ULethbridge EvolutionAging

An NSERC-funded MSc position is available in the Department of Biological Sciences at the University of Lethbridge (Alberta, Canada). The focus of the project is on the evolution of senescence (a.k.a. 'aging') with a particular focus on aquatic plants, especially those in the sub-family Lemnoideae. The project will include a combination of lab and field work, primarily involving techniques from population biology and evolutionary ecology. Potential start dates are September 2013 or January 2014 with a possibility of a pre-registration research assistantship (i.e., in the summer of 2013). To apply, please send your CV along with a cover letter indicating your research experience and interests to Dr. Rob Laird (robert.laird at uleth.ca).

laird.robert@gmail.com

ULincoln BehaviouralGenetics

The University of Lincoln (UK) will be funding a number of PhD scholarships in Life Sciences in 2013. This will include a stipend and full fee waiver. We are seeking to recruit Science graduates with MSc or good BSc degrees (or equivalent) in relevant subjects. Successful applicants will enroll as full time MPhil/PhD students with funding for maximum of three years (£9,000 bursary for international students and £13,590 bursary for Home/EU students), subject to satisfactory annual progress. Students will be expected to participate in teaching or other research projects (as part of the fee waiver aspect of the Graduate Training Award Scheme), and submit their PhD thesis within 4 years of enrolment.

One PhD scholarship will aim at elucidating the genetic basis of impulsive aggression in dogs. Dog aggression often results in serious injuries, psychological trauma, and creates concerns about dogs' welfare. The risk is higher in cases of impulsive aggression in which there are few premonitory signs. Although impulsive aggression has been well described in terms of behavioural and physiological characteristics, little is known about its genetic basis. In this project, a genome-wide association study will be performed to identify genetic polymorphisms associated with the tendency to display impulsive-aggressive behaviour. Dogs used in the project will be behaviourally phenotyped using a validated impulsive aggression scale. The genome-wide association study will be followed by more detailed testing of candidate genes showing high association with aggressivity, to establish a direct link between gene func-

tion and behavioural phenotype. The project will be supervised by a team of researchers with complementary expertise in evolutionary genetics (Malgorzata Pilot, primary supervisor), veterinary behavioural medicine (Daniel Mills) and molecular neurobiology (Humberto Gutierrez).

Suggested background reading: Spady TC, Ostrander EA (2008) Canine Behavioral Genetics: Pointing Out the Phenotypes and Herding up the Genes. *The American Journal of Human Genetics* 82: 10-18. Wright HF, Mills DS, Pollux PMJ (2012) Behavioural and physiological correlates of impulsivity in the domestic dog (*Canis familiaris*). *Physiology & Behavior* 105: 676-682.

To apply, send a CV and cover letter to Malgorzata Pilot (mpilot@lincoln.ac.uk) by 5pm (UK time) on 19 March 2013. Shortlisted applicants will be invited for an interview in the week commencing 25 March 2013. Applicants do not need to complete a University of Lincoln online application form unless invited for an interview.

Malgorzata Pilot

School of Life Sciences University of Lincoln Riseholme Campus Lincoln, LN2 2LG United Kingdom

mpilot@lincoln.ac.uk

ULincoln EvolutionBlackGrouse

The University of Lincoln (UK) will be funding multiple PhD studentships in Life Sciences from 2013. As part of this programme, Carl Soulsbury is advertising an open competition for a full-time PhD opportunity to work on “The role of telomere length and attrition rates in the evolutionary ecology of black grouse”.

A successful student will be based in the research group of Carl Soulsbury (csoulsbury@lincoln.ac.uk) and have co-supervision by Tom Pike (University of Lincoln) and Heli Siitari (University of Jyväskylä, Finland).

Background: Telomeres are regions of tandem-repeated DNA sequences typically located at the ends of chromosomes and which protect them from deterioration during replication. Telomeres shorten with age and the rate at which they shorten (telomere attrition) is believed to be due to factors such as oxidative stress, which damages telomeres and impairs repair. Once telomeres reach a critical length, cells can no longer di-

vide leading to apoptosis. Hence, telomere length can be connected to total or remaining lifespan, and for some species, fitness.

The black grouse is a lekking species with very high reproductive skew and high investment in multiple sexual ornaments and behaviours. This project will combine existing and new DNA samples with detailed individual-based long term data (e.g. reproductive effort, sexual ornament size, reproductive success, parasite loads) to test the importance of telomere length, telomere attrition rates and the relative importance of different telomere classes (Class I, II, III) in the evolution of life history strategies.

Key references Bauch, C., Becker, P. H., & Verhulst, S. (2013) Telomere length reflects phenotypic quality and costs of reproduction in a long-lived seabird. *Proceedings of the Royal Society B: Biological Sciences*, 280:20122540.

Barrett, E. L. B., Burke, T. A., Hammers, M., Komdeur, J. & Richardson, D. S. (2013) Telomere length and dynamics predict mortality in a wild longitudinal study. *Molecular Ecology*, 22:249-259.

We are seeking to recruit Science graduates with a 1:1 or good 2:1 (or equivalent) undergraduate awards in relevant subject areas. Successful applicants will be appointed as Graduate Training Associates with 9000 bursary plus fees for international students and 13,590 bursary plus fees for Home/EU students. Awards will be subject to satisfactory annual progress. Students will be expected to participate in teaching or other activities as part of the fee waiver Graduate Training Award Scheme.

Applications will be by CV plus covering letter emailed to the primary supervisor (Carl Soulsbury) for the relevant project by 5pm on 19th March 2013. Shortlisted applicants will be invited to interview in the week commencing 25 March 2013. Applicants do not need to complete a University of Lincoln online application form unless invited to interview

For further details of other studentships (<http://www.lincoln.ac.uk/home/lifesciences/postgraduate/-studentships/>)

The University of Lincoln - a top performer in student satisfaction, enjoying an unrivalled ascent through the University league tables, set in a dynamic, research rich and vibrant campus in the heart of a great historic student-friendly city.

csoulsbury@lincoln.ac.uk

ULincoln EvolutionSpermCompetition

The University of Lincoln (UK) will be funding multiple PhD studentships in Life Sciences from 2013. As part of this programme, the Laboratory of Evolutionary Ecology of Adaptations, led by Dr. Daniel Pincheira-Donoso, is advertising an open competition for a full-time PhD opportunity to work on the ecology of sperm competition, ideally starting September 2013.

This project aims to investigate the influence of ecological factors, such as climate, interspecific competition and resource abundance, on sperm competition through the evolution of traits involved in postcopulatory sexual selection. Given the energetic costs involved in male investment into sperm competition, ecological factors are expected to play an important role in sperm competition dynamics, and thus, macroecological clines in sperm competition strategies are expected to evolve across environments. This theory will be tested using the *Liolaemus* lizard adaptive radiation (one of the most species-rich genera of terrestrial vertebrates on earth) as a model system. Adapted to one of the widest climatic and ecological ranges known among living reptiles, *Liolaemus* offers a unique model organism to investigate questions involving phylogenetic comparative explorations of clinal evolution. Important part of the data is already maintained in the Laboratory, and opportunities for further data collection in South America will be discussed in due course.

The project will benefit from co-supervision by Drs. Paul Eady, Malgorzata Pilot, and Marcello Ruta (from the University of Lincoln), as well as from further support from Dr. Shai Meiri (Tel Aviv University).

We are seeking to recruit Science graduates with 1:1 or good 2:1 (or equivalent) undergraduate awards in relevant subject areas. Successful applicants will be appointed as Graduate Training Associates with £9000 bursary plus fees for international students and £13,590 bursary plus fees for Home/EU students. Awards will be subject to satisfactory annual progress. Students will be expected to participate in teaching or other activities as part of the fee waiver Graduate Training Award Scheme.

To apply, please send a CV and a cover letter with description of interests to Daniel Pincheira-Donoso (con-

tact details below) by 5pm (UK time) on 26 February 2013. Shortlisted applicants will be invited to interview in week commencing 11th March 2013. Applicants do not need to complete University of Lincoln online application form unless invited to interview. Any further informal questions are welcome and should be sent to Daniel.

Daniel Pincheira-Donoso

Lecturer in Zoology Laboratory of Evolutionary Ecology of Adaptations School of Life Science University of Lincoln Riseholme Campus Lincoln, LN2 2LG United Kingdom

DpincheiraDonoso@lincoln.ac.uk

Lab Website: <http://selectiondynamics.weebly.com/>

ULincoln EvolutionSpermCompetition Update

Please note that the deadline for submission of applications for the below PhD position has been extended until the 19th march 2013.

The University of Lincoln (UK) will be funding multiple PhD studentships in Life Sciences from 2013. As part of this programme, the Laboratory of Evolutionary Ecology of Adaptations, led by Dr. Daniel Pincheira-Donoso, is advertising an open competition for a full-time PhD opportunity to work on the ecology of sperm competition, ideally starting September 2013.

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We are seeking to recruit Science graduates with 1:1 or good 2:1 (or equivalent) undergraduate awards in relevant subject areas. Successful applicants will be appointed as Graduate Training Associates with £9000 bursary plus fees for international students and £13,590 bursary plus fees for Home/EU students. Awards will be subject to satisfactory annual progress. Students will be expected to participate in teaching or other activities as part of the fee waiver Graduate Training Award Scheme.

To apply, please send a CV and a cover letter with description of interests to Daniel Pincheira-Donoso (contact details below) by 5pm (UK time) on 19 Mrch 2013. Shortlisted applicants will be invited to interview in week commencing 25th March 2013. Applicants do not need to complete University of Lincoln online application form unless invited to interview. Any further informal questions are welcome and should be sent to Daniel.

Daniel Pincheira-Donoso Lecturer in Zoology Laboratory of Evolutionary Ecology of Adaptations School of Life Science University of Lincoln Riseholme Campus Lincoln, LN2 2LG United Kingdom

DpincheiraDonoso@lincoln.ac.uk

Lab Website: <http://selectiondynamics.weebly.com/>
Daniel Pincheira-Donoso
<dpincheiradonoso@lincoln.ac.uk>

ULincoln UK EvolutionHearing

Postgraduate Scholarships in Life Sciences and Pharmacy

The University of Lincoln will be funding up to 10 PhD scholarships in Life Sciences and Pharmacy in 2013. We are seeking to recruit Science graduates with Masters or first class or good upper second class honours degrees in relevant subjects including Chemistry, Forensic Sciences, Medical and Biomedical Science, Pharmacy, Biochemistry and Microbiology, Biology, Zoology and

Animal Sciences.

Successful applicants will be appointed as Graduate Training Associates, and receive a £9,000 bursary plus fees for international students and £13,590 bursary plus fees for Home/EU students. Awards will be for three years of full time study subject to satisfactory annual progress.

Students will enrol as full time MPhil/PhD students with funding for maximum of three years and will be expected to submit their PhD thesis within 4 years of enrolment. Students will be expected to participate in teaching or other research projects as part of the fee waiver aspect of the Graduate Training Award Scheme.

Applications will be by CV plus covering letter emailed to the primary supervisor for the relevant project by 5pm on 26 February 2013. Shortlisted applicants will be invited to interview in the week commencing 11 March 2013. Applicants do not need to complete a University of Lincoln online application form unless invited to interview.

One Scholarships is available to fund a Mphil/PhD student in the following project:

The physiology of an insect ear capable of detecting extreme ultrasounds

Director of studies: Dr. Fernando Montealegre-Z (fmontealegrez@lincoln.ac.uk, +44 (0) 1522 835460).
Co-supervisor: Dr. Jose Gonzalez-Rodriguez (University of Lincoln)

Male katydid (Insecta) produce sound to call distant females. They have a tympanal organ in the forelegs that helps them to hear their conspecific calls, but also to detect the echolocation cries of their predators, the bats. Dr. Montealegre-Z recently discovered that the katydid tympanal organ operates like the mammalian ear, having external, middle, and inner ear components. Their inner ear contains a newly identified organ, the Auditory Vesicle, a fluid-filled cavity that bathes the ear mechanoreceptors and facilitate the dispersion of waves and frequency analysis like the mammalian cochlea. The proposed study will investigate the ears of neotropical katydids that communicate using the highest calling frequencies ever recorded in the animal kingdom. While humans can only hear up to 20 kHz, males of these insects serenade their ladies at 150 kHz. These ears must be ultra-sensitive to mitigate sound attenuation at such extreme frequencies. In mammals the cochlear fluids have unique ionic composition to regulate electrochemical impulses of mechanoreceptors; changes in composition can harm hearing sensitivity. The project aims at elucidating the role of the AV fluid in hearing sensitivity and seeks to untangle the

amplification process, whereby the females ears constitute sensors with sophisticated detection capabilities.

This project involves fieldwork and lab experimentation. Fieldwork will be undertaken in the rainforests of Colombia and Ecuador (funded by a National Geographic grant currently held by Dr. Montealegre-Z). The student will receive training in signal and image processing, although basic knowledge of these are an asset for the selection process.

Interested students should contact Dr. Fernando Montealegre-Z (contact details above) or submit applications before deadline. For more information visit the lab website in the following link:

<http://bioacousticssensorybiology.weebly.com/opportunities.html>

Dr. Fernando Montealegre-Z., B-MSc, PhD Senior Lecturer in Zoology Biomechanics and Sensory Biology School of Life Sciences Riseholme Campus University of Lincoln Lincoln LN2 2LG, UK

Tel. ++44 (0) 1522 835460 (office) <http://bioacousticssensorybiology.weebly.com/> Fernando Montealegre Zapata <fmontealegrez@lincoln.ac.uk>

ULondon Intragenomic Conflict Theory

Fully funded PhD studentship in evolutionary theory at Royal Holloway, U. of London

Title Intra-genomic Conflict and Medical Disorders

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

Research Outline 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 (1).

Recently, genomic imprinting (and intra-genomic conflict in general) has been linked to several diseases (2). 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 (3). 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 (3).

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 (4). 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?

In this project we will formulate mathematical models for the evolution of intra-genomic conflict and make specific predictions about the outcomes. We will test the predictions of our models against the medical literature. This research will require a trans-disciplinary approach that uses mathematical and computational models to synthesize the fields of molecular biology, genetics, medicine, evolutionary biology, and behavioral ecology. We hope to apply this approach to understand the evolution of genomic imprinting, sex-determination, and disease virulence among others.

This project is 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 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 is on the outskirts of London www.telegraph.co.uk/education/expateducation/9480575/Beautiful-universities-around-the-world.html?frame#12131 The studentship has a maintenance allowance of £15726 per annum for 3 years and a UK/EU tuition fee waiver. We expect candidates to have a 2.1 or first class degree (or equivalent if not a UK degree).

Apply before the 4th of March following the link <http://www.rhul.ac.uk/biologicalsciences/>

prospectivestudents/postgraduateresearch/-phdstudentships2013v2.aspx ; get in touch with Tracey Jeffries (Tracey.Jeffries@rhul.ac.uk) for any application queries. 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

UMainz InsectEvolution

3 years PhD position: Early evolution of family life in insects

We invite applications for a 3-years PhD position at the JG University of Mainz, Germany. The project aims to better understand the evolutionary mechanisms shaping the emergence and maintenance of family life in insects. Our model system is the European earwig, *Forficula auricularia*, a species with non-obligatory forms of maternal care. The PhD student will use standardized experiments to investigate how ecological and social factors shape the nature of family interactions in this species. The scientific project includes field studies, behavioural observations, laboratory experiments and, depending on the student interests, quantitative genetics, chemical ecology, insect immunology and/or genetics (microsatellites).

The position requires a recent Diploma or Master degree in Biology (or a related field). The successful candidate should be highly motivated and have strong background in evolutionary biology and behavioural ecology. Good skills in biostatistics or a high motivation to improve the statistical knowledge (e.g. R language) are important. Previous experiences with behavioral experiments, chemical ecology (GCMS analyses), immunity or microsatellite analyses are advantageous, but not required. The position is fully-funded by the DFG (65% TV-L E13). People from every nationality are encouraged to apply. The working language of the laboratory is English.

The University of Mainz hosts many excellent scientific institutions (<http://www.uni-mainz.de/eng>) and Mainz is a historic city located on the River Rhine with many students and a rich social and cultural life (<http://www.mainz.de>).

Our young group offers an international, dynamic and interactive scientific environment and state-of the art, newly equipped laboratories. Information on our scientific work including recent publications can be found under <http://www.bio.uni-mainz.de/zoo/>

evobio/217_ENG_HTML.php. For more information, please do not hesitate to contact me (meunier@uni-mainz.de).

Interested candidates should send applications (as a single .pdf e-mail attachment) containing a brief explanation of their research experience and interests (max. 1 page), a curriculum vitae (with the grades of their B.Sc and M.Sc), a copy of their Master or Diploma thesis, and the names and email address of 2-3 potential referees to Dr Joel Meunier (meunier@uni-mainz.de).

Review of applications will begin the 4th of March 2013 and will continue until the position is filled. The ideal starting date for the position is May or June 2013, but is negotiable.

– Joël Meunier, PhD Assistant professor/ Junior group leader

Johannes Gutenberg-Universität Mainz Institut für Zoologie Abteilung Evolutionsbiologie Johannes-von-Müller-Weg 6 55128 Mainz, Germany

meunier@uni-mainz.de

UNeuchatel EvolutionaryGeneticsPlants

PhD position in Evolutionary Ecology & Genetics / Bioinformatics: evolution in action

Evolution in action is a phrase that describes the outcome of gene flow, genetic drift, and natural selection acting on genomes. All three processes are active within natural populations, but they vary over spatial scales, which determines the outcome of adaptive evolution. The goal of this project is to disentangle these processes by focusing on both the phenotype and genomic variation. The research will interface with several fields of biology: evolutionary theory, ecology, molecular genetics and landscape genetics.

The study system is *Arabidopsis lyrata*. The work includes field sampling in the USA. Genomic analysis (RAD-seq) will explore evolutionary processes on a molecular level. Field and lab experiments will verify selection parameters. The position requires a strong background in quantitative thinking, statistical analysis and/or bioinformatics programming (in R or Unix), along with enthusiasm for fieldwork and experimental studies.

The Institute of Biology at Neuchatel, Switzerland,

consists of a dozen groups working in diverse fields of ecology, evolution, physiology, and molecular and cell biology. The University in collaboration with CUSO (the Universities of Lausanne, Geneva and Fribourg) offers outstanding PhD programs in Evolutionary Biology and Genomics. For more information, contact Yvonne Willi (yvonne.willi@unine.ch) <http://www2.unine.ch/-biol/> <http://biologie.cuso.ch/accueil/> Applicants must have a university degree in the natural sciences (ideally in evolutionary biology, genetics, or bioinformatics) that allows entrance to a PhD program, and very good organizational, analytical, and scientific writing skills. Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) a CV, (3) copies of undergraduate and masters/diploma transcripts, and (4) contact information of two references (all as a single PDF) to: yvonne.willi@unine.ch. Applications are welcome until the position is filled. First reviewing starts on March 7, 2013.

yvonne.willi@unine.ch

ecology, evolution, physiology, and molecular and cell biology. The University in collaboration with CUSO (the Universities of Lausanne, Geneva and Fribourg) offers outstanding PhD programs in Evolutionary Biology and Genomics. For more information, contact Yvonne Willi (yvonne.willi@unine.ch) <http://www2.unine.ch/-biol/> <http://biologie.cuso.ch/accueil/> Applicants must have a university degree in the natural sciences (ideally in evolutionary biology, genetics, or bioinformatics) that allows entrance to a PhD program, and very good organizational, analytical, and scientific writing skills. Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) your CV, (3) copies of undergraduate and masters/diploma transcripts, and (4) contact information of two references (all as a single PDF) to: yvonne.willi@unine.ch. Applications are welcome until the position is filled. First reviewing starts on March 18, 2013.

yvonne.willi@unine.ch

UNeuchatelSwitzerland EvolGeneticsPlants

PhD position in Evolutionary Ecology & Genetics / Bioinformatics: evolution in action

Evolution in action is a phrase that describes the outcome of gene flow, genetic drift, and natural selection acting on genomes. All three processes are active within natural populations, but they vary over spatial scales, which determines the outcome of adaptive evolution. The goal of this project is to disentangle these processes by focusing on both the phenotype and genomic variation. The research will interface with several fields of biology: evolutionary theory, ecology, molecular genetics and landscape genetics.

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The Institute of Biology at Neuchatel, Switzerland, consists of a dozen groups working in diverse fields of

UOldenburg EvolutionAnimalNavigation

UOldenburg-Germany.EvolutionAnimalNavigation
Reply-To: Bianca Alert <bianca.alert@uni-oldenburg.de>

Ph.D. position at the University of Oldenburg

The research group “Animal Navigation” of the Department of Biology and Environmental Sciences, Faculty of Mathematics and Science at the Carl von Ossietzky Universität Oldenburg offers a doctoral student position (TV-L E13/2) in the project “Celestial compass learning and orientation in birds”.

The successful applicant should perform behavioural tests with inexperienced migratory birds under various artificial celestial conditions and use behavioural molecular mapping techniques to achieve a better understanding of the behavioural and physiological mechanisms of celestial compass learning and orientation in birds.

You should be (1) interested in bird navigation in general; (2) able to carry out field work on your own; (3) speaking reasonably good English; and (4) be aware that a good Ph.D. project requires hard work and personal dedication. The ideal candidate has a strong background in behavioural biology, ornithology and

neurobiology.

Our group is located at the Carl-von-Ossietzky-University Oldenburg, Germany and is part of several collaborative centres of excellence both nationally and internationally. These collaborations will give you access to a very wide range of superb modern equipment, techniques and expertise. Our working group is also member of the DFG Forschergruppe “Dynamic and stability of retinal processing” and of the DFG graduate school “Molecular mechanisms of sensory biology”. Therefore, you will become part of a larger team working closely together on related questions. For more information about our group, see <http://www.member.uni-oldenburg.de/-henrik.mouritsen/> The University of Oldenburg is an equal-opportunity employer that seeks to increase the percentage of female faculty members. Women qualified for this position are therefore especially encouraged to apply. Applicants with disabilities will be preferentially considered in case of equal qualifications.

If this sounds interesting to you and if you are (1) in the top 20% of students in your cohort; (2) if you are seriously interested in the position; and (3) will be able to show up for a personal interview in Oldenburg, please send an application including your CV, names and addresses of at least two references knowing you well, and university and high school certificates as soon as possible to Margrit Kanje, IBU, Carl-von-Ossietzky-Universität Oldenburg, D-26111 Oldenburg or to email address: margrit.kanje@uni-oldenburg.de

We will start evaluating the received applications on 15th of February 2013, but will consider all applications received until the position is filled. Our ideal starting date would be 1st April 2013.

– Bianca Alert AG Neurosensorik (H. Mouritsen) IBU - Fakultät 5 Universität Oldenburg D-26111 Oldenburg, Germany Tel.: +49 (0)441 798 3646 Fax: +49 (0)441 798 3284 Email: bianca.alert@uni-oldenburg.de

Bianca Alert <bianca.alert@uni-oldenburg.de>

UOslo DiseaseEvolution

A 3-year position as PhD Research fellow in disease ecology is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences.

The PhD student will be part of the project

Changes and Zoonotic Epidemiology in Wildlife Systems (ZEWS) funded by the Norwegian Research Council as part of the NorKlima Program. The position is tentatively available from May 1st 2013.

Project Description

Among the most serious effects of climate change is its potential to drastically alter the ecology of diseases that are vectors-borne, have wildlife and/or environmental reservoirs (WVE diseases). Theory and observation suggest that gradual changes in abiotic factors that influence transmission rates or host/vector susceptibility, and host or vector density can result in sudden tipping points in which the epidemiological characteristics of a disease rapidly change, leading to large-scale epidemics. The understanding required to plan and implement mitigation strategies for WVE diseases requires broad interdisciplinary collaborations to provide the necessary integration and overview of all WVE diseases likely to respond to climate change.

As part of this international effort, the PhD student will be working on three systems that are important in their own right while being complementary as model systems: Lyme disease, anthrax and tularemia. They are chosen for either being; (a) currently or potentially important in Scandinavia, (b) likely to respond strongly to climate change, and (c) giving complementary perspectives on how WVE diseases respond to climate change.

Specifically, the PhD will be working on

Improved risk models of these three diseases, for a number of climate scenarios. Identification and Acquisition of new data where critical information is found to be missing. The candidate will be expected to work on all three project systems, with a particular focus on anthrax, though with room for adjustment depending on the skills and wishes of the candidate.

Requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

We are seeking for a candidate who has completed a Masters or other corresponding education equivalent to a Master degree in disease-related ecology and microbiology. The project will call for a strong background in practical microbiology and zoonotic disease ecology. The candidate must have a proven record of highly independent fieldwork. Proficiency and experience in collection, analysis and storage of environmental samples

and population (mostly unguulate) surveillance is recommended. It necessitates both practical experiences in doing research on class A environmental pathogens in the field and field laboratories as well as familiarity with desert environments.

The announced position involves development of new theoretical predictions to investigate current and future patterns of disease distribution, prevalence and evolution. A willingness to learn statistics and computational and modeling skills are thus essential. The candidate should also expect to have to learn new sequencing methodology. An interest in fundamental research and the ability to communicate and work in a multidisciplinary team are essential. Being willing and capable of spending extended periods doing relevant fieldwork under potentially isolated conditions in Namibia and Scandinavia is also essential, and due to the nature of the work the candidate should have demonstrated proficiency in working in relevant field conditions.

The purpose of the fellowship is research training leading to the successful completion of a PhD degree.

The fellowship requires admission to the PhD programme at the Faculty of Mathematics and Natural Sciences. The application to the PhD programme must be submitted to the department no later than two months after taking up the position. For more information see:

<http://www.uio.no/english/research/doctoral-degree-and-career/phd/application/>

<http://www.mn.uio.no/english/research/doctoral-degree-and-career/phd-programme/index.html> A very good command of English is required, and knowledge of Afrikaans or at least one Namibian language will be highly valued.

<http://www.mn.uio.no/english/research/doctoral-degree-and-career/regulations/proficiency-requirements.html>

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USalford SexChangeBrownShrimp

Dear all,

Applications are open for a 3-year Graduate Teaching

Studentship in the School of Environment & Life Sciences, University of Salford.

The title of the project is: Facultative sex change in the brown shrimp *Crangon crangon* L.

<http://www.salford.ac.uk/environment-life-sciences/-research/graduate-teaching-studentships/facultative-sex-change-in-the-brown-shrimp-crangon-crangon-l>

This project aims to better understand the evolutionary mechanisms and consequences of sex change in the brown shrimp, a key species with a major role in ecosystem functioning.

The project will involve:

- Field sampling of *C. crangon* in the UK and in the Mediterranean;
- Analysis of sex ratios of natural populations;
- Rearing shrimps in aquaria;
- Use of morphological, morphometric and histological tools to assess sex reversal;
- Manipulative laboratory experiments in aquaria (changing density, sex ratio, etc...) to evaluate changes in the rate of sex reversal;
- Use of the empirical data collected to model sex change in this system. Successful applicants need to register for a PhD at the University of Salford and from the scheme they will gain experience of teaching in Higher Education while performing their research project.

Details on the fellowship can be found here: <http://www.salford.ac.uk/environment-life-sciences/-research/graduate-teaching-studentships> The closing date for application is 1 March 2013. Please feel free to contact me at: C.Benvenuto@salford.ac.uk

Kind regards,

Chiara

Dr. Chiara Benvenuto Lecturer in Zoology | School of Environment & Life Sciences Room 317, Peel Building, University of Salford, Salford M5 4WT, UK t: +44 (0)161-295-5141 | m: +44 (0)7544-290-311 C.Benvenuto@salford.ac.uk | www.salford.ac.uk/environment-life-sciences <http://hub.salford.ac.uk/bicome/2013/01/22/chiara-benvenuto/> C.Benvenuto@salford.ac.uk

UStAndrews PopGenetics

project: Statistical Methods for the Study of Connectivity in Marine Species supervisors: Prof Oscar Gaggiotti (oeg@st-andrews.ac.uk; <http://biology.st-andrews.ac.uk/contact/staffprofile.aspx?sunID=oeg>) funding details: Competition Funded Project (Students Worldwide) closing date: 01 Mar 2013 web advert: <http://biology.st-andrews.ac.uk/-projectProfile.aspx?psr=79&pid=324> Dispersal is one of the most important processes driving the dynamics and structure of marine communities, local adaptation of species, and maintenance of genetic diversity. Additionally, a thorough knowledge of dispersal patterns is essential for the effective spatial management of fisheries and the design of marine protected areas (MPAs). However, inferring patterns of demographic connectivity in marine species with long-lived pelagic larvae remains a challenging task.

Several approaches and types of data have been used to study connectivity. Genetic approaches typically estimate rates of gene flow while micro-chemical fingerprinting is used to assign individuals to source populations. More recently it has been possible to obtain estimates of connectivity from biophysical models of ocean circulation and larval transport. However, all methods are challenged by the large spatial scale at which dispersal in marine species takes place and by the sheer size of populations of marine organisms. There are good examples of studies that have successfully characterised dispersal patterns at a small spatial scale but the same is not true for large geographic areas. No single method or data type has proven successful in this latter case and it has become clear that there is a need for statistical approaches that combine all available sources of information.

The thesis project is aimed at developing Bayesian approaches to estimate connectivity using all available data and in particular genetics, microchemistry, and output from larval transport models. Some of the statistical techniques necessary to achieve this goal have been developed by Oscar Gaggiotti's group (see references below) and will be used to develop new and improved methods for the estimation of connectivity patterns.

The ideal candidate would have a good background in statistics and an interest in population genetics and computational biology. The focus of the project is on statistical developments and data analysis so it does not include lab or fieldwork. However, there will be close collaborations with empirical population geneticists.

Interested applicants should contact Oscar Gaggiotti (oeg@st-andrews.ac.uk). To formally apply for this position visit [http://biology.st-andrews.ac.uk/-](http://biology.st-andrews.ac.uk/-pageset.aspx?psrw)

[pageset.aspx?psrw](http://biology.st-andrews.ac.uk/-pageset.aspx?psrw) References

Hoban, S, G Bertorelle and OE Gaggiotti, 2012. Computer simulations: tools for population and evolutionary genetics, *Nature Reviews Genetics*, 13: 110-122.

Gaggiotti, OE, D. Bekkevold, HBJ Jørgensen, M Foll, GR Carvalho, C Andre and DE Ruzzante, 2009. Distinguishing the effects of evolutionary, demographic and environmental factors influencing the genetic structure of natural populations: Atlantic herring as a case study. *Evolution* 63: 2939-2951.

Faubet P and OE Gaggiotti, 2008. A new Bayesian method to identify the environmental factors that influence recent migration. *Genetics* 178:1491-1504.

Foll, M, and OE Gaggiotti, 2006. Identifying the environmental factors that determine the genetic structure of Populations. *Genetics* 174: 875-891.

Gaggiotti, OE, SP Brooks, W Amos and J Harwood, 2004. Combining demographic, environmental and genetic data to test hypotheses about colonization events in metapopulations. *Molecular Ecology* 13: 811-825.

Gaggiotti, OE, F Jones, WM Lee, W Amos, J Harwood et al., 2002 Patterns of colonization in a metapopulation of grey seals. *Nature* 416: 424-427.

Oscar E. Gaggiotti MASTS Professor Scottish Oceans Institute East Sands University of St Andrews St Andrews Fife KY16 8LB UK <http://biology.st-andrews.ac.uk/contact/staffprofile.aspx?sunID=oeg>
Oscar Gaggiotti <oeg@st-andrews.ac.uk>

UWesternAustralia PlantPathogens

Please consider advertising the attached exciting PhD Studentship. It is well suited to somebody interested in evolutionary biology and genomics.

In the first instance, applicants must be Australian citizens/permanent residents, or be from United States or New Zealand Universities participating in the Cooperative Research Center for Biosecurity. However, if that does not succeed a wider selection of applications will be considered.

Yours Sincerely

Prof Roger Jones School of Plant Biology University of Western Australia

Contents of attachment:

Scholarship available for a PhD project in Plant Virology at the University of Western Australia

PhD project: "Wind spread of plant viral pathogens into northern Australia"

This project will provide ideal opportunities for obtaining advanced training in genomics and plant virology. We are seeking a highly motivated student to investigate this exciting project on establishing the extent and significance of viruses with wind-borne insect vectors arriving from nearby countries and establishing in northern Australia. This project will provide ideal opportunities for obtaining advanced training in genomics and plant virology. The hypothesis being tested is that economically important plant viral pathogens of agricultural and horticultural crops or natural ecosystems are arriving in Australia via wind-borne insect virus vectors blown across the sea from Indonesia/East Timor/Papua New Guinea by prevailing wind currents. The connectivity between isolates of the same virus from East Timor or from Northern Australia will be investigated to provide evidence for this hypothesis, and document the occurrence in crops of our Northern neighbours of additional damaging viruses that have not yet reached Australia.

This project will be the first ever investigation to provide solid research data regarding the within-species relatedness (i.e. connectivity) between pathogens or pests found affecting the crops of our northern neighbours and those of Australia itself. The simplicity of virus genomes and the recent advent of deep sequencing technology make such a study feasible, and a suitable subject for a PhD investigation. The project will use the latest, cutting edge deep sequencing technologies and state of the art virus characterisation technologies. UWA will provide state of the art virus characterisation technologies. DAFWA will provide its unique capacity for rigorous large-scale field data collection in northern Australia and sample processing. CSIRO will provide its world-class capability in genomics and bioinformatics, in addition to spatial informatics tools delivered through the Atlas of Living Australia infrastructure.

The Plant Biosecurity Cooperative Research Centre is offering an annual stipend of \$30,000 a year tax-free, plus approximately \$13,000 additional support a year towards operating expenses. The duration of the scholarship is three and a half years (maximum). The CRC also supports travel to one conference, attendance at an annual student workshop, and formal professional development. Students must be Australian citizens/permanent residents/members of participating United States or New Zealand Universities. Please check the CRC website for fur-

ther details at <http://www.pbcrc.com.au/education-training/scholarships> Participating organisations

* University of Western Australia (UWA) * Commonwealth Scientific and Industrial Research Organisation (CSIRO) * Department of Agriculture and Food Western Australia (DAFWA)

Supervisors

* Prof Roger Jones, Plant Virologist, UWA * Dr Owain Edwards, CSIRO * Ms Brenda Coutts, DAFWA

Application deadline

April 31 2013

Commencement date:

Starting date May 2013

Background:

This project arises because of (i) the threat to Australian agricultural and horticultural crops, and to its natural ecosystems posed by arrival of damaging new pests and pathogens via wind currents coming from Indonesia/East Timor/PNG, and (ii) the increasing occurrence and intensity of such wind currents likely to occur as a consequence of global climate change. Evidence that virus arrival by this means has already occurred comes from the Ord River Irrigation Area (ORIA) where genome analysis of aphid-borne Zucchini yellow mosaic virus (ZYMV) revealed that this is the only place in Australia where the southeast Asian ZYMV strain occurs (Coutts et al. 2011, Arch. Virol. 156, 2119-2131). This ZYMV strain would have arrived in the ORIA via viruliferous aphids carried on wind currents. The prevailing winds arriving in the ORIA are from Timor. The parts of northern Australia being considered in this project are the ORIA and the Darwin/Katherine agricultural regions, both of which are remote and extremely isolated from other agricultural regions in Australia. The part of southeast Asia being considered is East Timor

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UZurich FrogAdaptation

Open position for a PhD student University of Zurich,

Switzerland Working with Josh Van Buskirk

The project focuses on adaptation in frog populations (*Rana temporaria*) across an elevational gradient in the Alps. Fieldwork involves characterizing life history variation in nature and surveying environmental conditions that define the gradient. Experimental work is aimed at understanding genetic, demographic, and selective factors affecting adaptation to climate extremes. The position is especially suitable for you if you are interested in evolutionary responses to environmental change and what controls the distributions of species.

The project is funded by the Swiss National Science Foundation for a period of three years. You will participate in the graduate program in Evolutionary Biology at the University of Zurich (<http://www.evobio.uzh.ch/research.html>) and will be a member of a large and interactive group of evolutionary ecologists working on conservation, population genetics, and demography in a variety of organisms.

Qualifications: Equivalent of a masters degree in biology, driver's license, and strong professional interests in evolutionary biology, molecular ecology, conservation, or landscape ecology. Experience with molecular methods may be useful but is not necessary.

Application: Please send to the address listed below (i) a letter describing your interest in this position and your previous research experience (diploma, masters, RA positions, etc.), (ii) your CV, and (iii) names and contact information of two references. If possible, please email your application as a single PDF document. I will begin screening candidates on 10 March 2013. The start date is flexible, but the position could begin already in April or May.

Josh Van Buskirk Evolutionary Biology & Environmental Studies University of Zurich, Switzerland josh.vanbuskirk@ieu.uzh.ch <http://www.ieu.uzh.ch/staff/leaders/vanbuskirk.html>
josh.vanbuskirk@ieu.uzh.ch

ago are closely tied with east Africa because the traditionally favored model of the migratory route out of Africa for anatomically modern humans runs through east Africa. This project focuses on deciphering the population history and patterns of genetic variation among east African populations, which today display substantial ethnic, cultural and linguistic diversity. The successful candidate will use large-scale population genomic data from multiple of east African populations to understand the history of human occupation of eastern Africa.

The PhD student will be part of Dr. Mattias Jakobssons lab at the Evolutionary Biology Center at Uppsala University. The Jakobsson lab has a broad interest in population genetics and human evolution and use a combination of mathematical studies of population genetic models and computational approaches to understand the complex patterns of large-scale human genetic variation and their implications for human demographic history. See the Jakobsson lab page for more information about current research and publications: <http://www.ebc.uu.se/Research/IEG/evbiol/research/Jakobsson/> Qualifications: An MSc or possibly a BSc degree (or equivalent) in a relevant field is required. The ideal candidate is highly motivated with thorough education and strong interest in evolutionary genetics/genomics, population genetics and human evolution. Previous experience with large-scale genetic data analysis, bioinformatics, and programming is advantageous. Mathematical, computational and statistical training is also advantageous.

Application deadline Feb 28th. See add at Uppsala University for instructions on how to apply: <http://www.uu.se/jobb/phd-students/-annonsering?languageId=1&tarContentId=225487>

For more information and enquirers, contact Mattias Jakobsson at mattias.jakobsson@ebc.uu.se

Sincerely, Mattias Jakobsson

Mattias Jakobsson <mattias.jakobsson@ebc.uu.se>

UppsalaU HumanPopGenet

PhD-student position in human population genomics at Uppsala University

Project description: Modern humans emerged in Africa, although the process by which modern humans arose has been vigorously debated. Human migration and the exodus from Africa some 70,000 years

UppsalaU PopulationGenomics

PhD position in population genomics

at the department of Plant Ecology and Evolution, EBC, Uppsala University, Swedenâ

Application no later than 2013-03-08. UFV-PA 2013/415.

Project description: Polyploidy, or whole genome duplication (WGD), occurs in virtually all vascular plants and has played a major role in evolution. In your PhD project you will take advantage of the recent developments in sequencing technology and previous studies in the *Capsella* genus to characterize genomic and phenotypic changes associated to WGD in the shepherd's purse (*C. bursa-pastoris*), a recently formed tetraploid weed. You will first conduct whole-genome resequencing and gene expression studies of accessions from Europe and from China. In a second step, the association between genomic variation and putative adaptive traits will be assessed through association and linkage mapping. These data, together with data in its diploid relatives, will be used to address questions about the genomic consequences of WGD between species and between groups of accessions within species and questions on the consequences of WGD for putative adaptive traits. Part of this work will be done in close cooperation with research groups in Canada and China.

An important part of your work will include statistical and genome analyses of large DNA sequence data sets from a number of *Capsella* genomes. In addition, molecular and experimental studies of specific pathways and phenotypic traits may be included. The exact work-plan of the thesis will be settled together with the doctoral student. The PhD student will be based in the group of Martin Lascoux at the Evolutionary Biology Center. (http://www.ebc.uu.se/forskning/IEG/-Plant/Research_groups/Lascoux_group/)

Qualifications: An MSc degree of equivalent in a relevant field is required. We seek a highly motivated student with thorough education and strong interest in evolutionary genetics/genomics, and population genetics. Previous experience with bioinformatical and statistical analysis of modern sequence data is required and a working knowledge of Perl and Python or related programming languages is highly recommended. We are looking for individuals who can work independently but also as part of a team. Candidates must be fluent in English (orally and written). The successful candidate will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (<http://www.ebc.uu.se/?languageId=1>) that is one of world's leading research institutions in evolutionary biology.

Conditions: The postgraduate training comprises four years of full time studies. The successful candidate will receive a postgraduate fellowship the first year (15500SEK/month) and a postgraduate position year 2-4 (22400-25100 SEK/month). The position can be combined with up to 20% of teaching assistantship, which will then prolong the position accord-

ingly. Please feel free to contact Martin Lascoux (Martin.Lascoux@ebc.uu.se, +46 18 471 6416) for more information. Union representatives are Anders Grundström, Saco-rÅdet, tel. +46 18 471 53 80 och Carin Söderhäll, TCO/ST, tel. +46 18 471 19 96, Stefan Djurström, Seko, tel. +46 18 471 33 15.â

How to apply: Please prepare a letter of intent including descriptions of 1) your motivation for PhD studies in general and for this position in particular, 2) your education, especially in evolutionary biology, genetics/genomics/bioinformatics, molecular biology, and statistics. The application should further include a CV, an authorized copy of your MSc degree, and the names and contact information (address, email address, and phone number) of at least two reference persons. Relevant publications (including BSc/MSc thesis) should be enclosed. The application must be written in English. You are welcome to submit your application no later than March 8, 2013, UFV-PA 2013/415. Use the link below to access the application form.

<http://www.uu.se/jobb/phd-students/-annonsering?tarContentId=233651&languageId=1>

Thanking you in advance,

Regards Martin

Martin Lascoux Department of Ecology and Genetics EBC, Uppsala University Norbyvägen 18D 75236 Uppsala Sweden Tel +46 (0) 18 471 64 16 Fax +46 (0) 18 471 64 57

martin Lascoux <martin.Lascoux@ebc.uu.se>

UppsalaU SoilFungalDiversity

Soil fungal ecology

Fungi mediate biogeochemical processes in soil, including carbon sequestration, organic matter decomposition, nitrogen and phosphorus cycling. Soil fungal communities are immensely diverse and general ecological principles governing these systems remain largely unknown. The planned project will use the complex dynamics of phosphorus in soil as a framework to identify adaptive traits in soil fungi and explore ecological principles that govern the tremendous diversity of soil fungal communities.

The add: <http://www.uu.se/jobb/phd-students/-annonsering?languageId=1&tarContentId=228796>

Contact: Anna.Rosling@ebc.uu.se

Anna Rosling <anna.rosling@ebc.uu.se>

WageningenU Modeling Biological Systems

Number 2: AFSG- SSB-0015 PhD: Development of a cyanobacterial photosynthetic platform for à la carte biocatalysis Systems and Synthetic Biology WU 1 fte

We are looking for We are looking for an enthusiastic, motivated PhD candidate with a strong background in or affinity to modeling of biological systems. Candidates should have strong mathematical and/ or statistical modeling skills, be fluent in English (both written and spoken), proactive, independent, team players and have the ability to engage with professionals in adjoining fields.

This PhD project aims to understand and, subsequently, steer the regulatory control of product formation by cyanobacteria, a model photosynthetic platform, for sustainable, tailored production of chemical building blocks through Synthetic Biology. The project will provide predictive models of cyanobacterial phototrophic growth, integrating metabolism and regulation at genome-scale. These models - which will be experimentally validated in wet lab matching projects - will enable to pinpoint bottlenecks hindering high-efficiency metabolism and thus provides a solid, model-driven basis for the tailored re-design of novel functions.

Requirements For this position we request modeling skills (constraint-based and/or dynamic), knowledge of analysis and integration of various omics data and a good knowledge of microbial physiology and biochemistry. The candidate is required to have a MSc on Bioinformatics, Biotechnology, Bioprocess engineering, (Computational) Microbiology, Applied Mathematics, or related fields. The PhD student will collaborate in a team with scientists at Chairs of Systems and Synthetic Biology and of Bioprocess engineering.

We offer We offer you a temporary, PhD-candidate position for 48 months (with interim evaluation after of 18 months). As per the PhD scale, the gross salary per month starts at euro 2042 in the first year and rises every year up to euro 2612 in the fourth year.

We not only offer a competitive salary but also good (study) leave and a pension of the ABP Pension Fund.

Additional information For more information about this position, please contact Prof. Vitor Mar-

tins dos Santos, chair Systems and Synthetic Biology, telephone number +31 317 482865, email: vitor.martinsdossantos@wur.nl.

For more information about the contractual aspects, please contact Mrs. J. van Meurs, HR advisor, telephone number +31 3174 80101.

Interested? You can apply online at www.werkenbij.wur.nl/UK until 31th of January 2013.

We are Systems Biology is one of the spearheads of the Wageningen UR, which invests considerably in this area. The mission of the Laboratory of Systems and Synthetic Biology (www.wageningenur.nl/ssb) is to contribute to the elucidation of the mechanisms underlying basic cellular processes, evolution and interactions among microbes and between microbes and their environment (including the human host) and to translate this knowledge into applications of biotechnological, medical and environmental interest.

The laboratory is part of the Agrotechnology & Food Sciences Group which is part of Wageningen UR where fundamental and applied sciences complement each other. As an important European player, we carry out top-level research and work alongside authoritative partners within the international business world as well as the government on "Healthy food in a biobased society". We have a crucial role in innovations within the market. In short, we are an interesting, international employer of stature.

Wageningen University and Research centre Delivering a substantial contribution to the quality of life. That's our focus - each and every day. Within our domain, healthy food and living environment, we search for answers to issues affecting society - such as sustainable food production, climate change and alternative energy. Of course, we don't do this alone. Every day, 6,500 people work on 'the quality of life', turning ideas into reality, on a global scale. For further information about working at Wageningen UR, take a look at www.jobsat.wur.nl. Could you be one of these people? We give you the space you need.

Acquisition regarding this vacancy is not appreciated.

Met vriendelijke groet, Kind regards,

Carolien Pinkster Secretary

Wageningen University Laboratory of Systems and Synthetic Biology Wageningen Centre for Systems Biology (WCSB) Laboratory of Microbiology Building 316 Dreijenplein 10 6703 HB WAGENINGEN the Netherlands phone +31 317 482105 fax +31 317 483829 email carolien.pinkster@wur.nl In the office at: Monday /

Wednesday / Friday 08.30 - 17.00 hours

“Pinkster, Carolien” <carolien.pinkster@wur.nl>

WageningenU SystemsBiology

AFSG- SSB-0013 Modeling life: exciting PhD positions in Systems Biology Systems and Synthetic Biology WU 1 fte

We are looking for Systems Biology is one of the spearheads of the Wageningen UR, which invests considerably in this area. The Wageningen Centre for Systems Biology (WCSB) has been recently launched with a focus on the Systems Biology of Biobased Economy, Food and Health. The research programme within the WCSB runs across with three main subthemes: Virtual Gut, Virtual Plant, and Virtual Microbe. Within the Wageningen Centre for Systems Biology two PhD modeling positions are available in the themes Virtual Gut and Virtual Microbe respectively. Each of these modeling project is matched by at least one experimental project, with strong interactions between model and experiments envisaged.

We are looking for enthusiastic, motivated and highly qualified PhD candidates with a strong background in or affinity to modeling of biological systems. Candidates should have strong mathematical and/ or statistical modelling skills, be fluent in English (both written and spoken), proactive, independent, team players and have the ability to engage with professionals in adjoining fields. Below you will find information on the research projects available and on the requirements of the position. More information is available on the website: www.wageningenur.nl/systemsbiology . PhD Position 1: Development of probabilistic models for quantitative pathway and response analysis of human intestinal and immune responses to food The homeostasis of the small intestine and its lining immune system can be modulated by various food-products. To efficiently study and, ultimately, predict the effects of food-products on homeostasis, we resort to systems biology-based mathematical models. By drawing on previously acquired knowledge, available literature and data to be generated in matching experimental projects, we aim to construct an in silico pathway-network model of the most important hubs for local and systemic immune signals of the gut and lined immune cells. This model, which will involve multilevel responses and is to enable predictions of the effect of polysaccharides, and pre- and

probiotics, will be tested iteratively by comparing its outcomes to in vitro results.

PhD Position 2: Systems Biology of microalgae as photosynthetic platform for tailored production of chemical building blocks and biomass This computational Systems Biology project aims to develop an experimentally tested modelling framework for the understanding of the metabolic and regulatory wiring of selected microalgae as photosynthetic platform for 'a la carte' production of chemical building blocks and biomass in sustainable value chains. The project will be tightly intertwined with research activities in matching projects in the scope of a broader initiative on microalgae for innovative biorefinery, as summarised in www.AlgaePARC.com and www.algae.wur.nl.

We ask Position 1: The candidate is required to have a MSc on Biotechnology, Nutritional Sciences, Computational Sciences, Applied Mathematics, Bioinformatics, Statistics, Bioengineering or related fields. Only candidates that have a background in human health related biological networks, preferable based on gene transcription and protein interaction, combined with a experience in mathematical, statistical or modeling strategies are asked to apply. The PhD student should have the ability to engage with scientists at WUR-Food & Biobased Research, WUR-Host Microbe Interactomics, WUR System Biology and researchers at The University of Bologna, Italy.

For more information about this position, please contact dr. Jurriaan Mes telephone number +31 317 481174, e-mail jurriaan.mes@wur.nl.

Position 2: The project is formulated in the context of the subtheme 'Virtual Microbe'. It requires strong modeling skills in constraint-based and dynamic modeling, some understanding in the analysis and integration of omics data and a good knowledge of microbial physiology and biochemistry. The candidate is required to have a MSc on Biotechnology, Bioprocess engineering, (Computational) Microbiology, Computational Sciences, Applied Mathematics, Bioinformatics or related fields. The PhD student will collaborate in a team with scientists at Chairs of Systems and Synthetic Biology, Bioprocess engineering, and the WUR unit on Plant Research International.

For more information about this position, please contact Prof. Vitor Martins dos Santos telephone number +31 317 482865, e-mail: vitor.martinsdosantos@wur.nl.

We offer We offer you a temporary, PhD-candidate position for 48 months (with interim evaluation after of 18 months). As per the PhD scale, the gross salary per

month starts at 2042 in the first year and rises every year up to 2612 in the fourth year. We not only offer

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Jobs

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Alberta FieldTech GroundSquirrelEvol

Head Field Technician Required-Columbian ground squirrels

Sheep River Provincial Park, Alberta, Canada

We are looking for a head field technician to assist with, and coordinate, fieldwork on the ecology of a wild population of Columbian ground squirrels. The head technician will supervise 4-5 volunteers for the

period of Apr 10 to Aug 31, 2013. Duties will include monitoring the phenology (when animals emerge from hibernation), reproduction and survival of individuals, data entry and data verification. Fieldwork will involve live-trapping and handling of animals, behavioural observation, radio-telemetry (to locate natal burrows) and assistance with the measurement of physiological (metabolism) traits on free-ranging animals. The successful candidate will have previous fieldwork experience, ideally in a field camp/station setting, have experience in data entry and management and show a high level of responsibility. Good organizational, multi-tasking and supervisory abilities are essential. Applicants who have experience working with terrestrial vertebrates will be given priority. Additionally, you

should have an interest in a number of the following (the more the better!): ecology, evolutionary biology, wildlife, field biology, and animal behaviour. Periods of time will be spent camping and, as such, successful applicants need to enjoy the outdoors, be up-beat, positive, responsible and work well as a member of a team.

All fieldwork is carried out in the spectacular Rocky Mountains of southwestern Alberta, Canada, home to some of the most majestic wildlife in North America. You will be staying at the University of Calgary's R.B. Miller research station in Sheep River Provincial Park, Alberta (<http://bgs.ucalgary.ca/facilities/facilities>). You will interact with other researchers working with ground squirrels on a diversity of projects in behavioural and population ecology. Additionally, the field station is home to a number of other researchers working on a variety of projects, ranging from insects to large mammals.

Salary is \$1850/month. Food, accommodation and travel within western Canada are provided. Applicants from further afield are encouraged to apply. In this case the equivalent of travel within western Canada will be reimbursed. If you wish to apply for this position, please send a CV with a cover letter and contact details of three references (with e-mail address), by email to Jeff Lane (contact info below), by March 07, 2013. Please indicate in your application that you are applying for the head technician position (we are also posting for volunteers). Note that due to Canadian immigration laws, North American citizens and permanent residents will be given priority.

We thank everyone for applying, but only those selected for interview will be contacted. Only applicants available for the entire period will be considered.

Contact:

Dr. Jeff Lane

u.columbianus@hotmail.com

Department of Biological Sciences University of Alberta
Edmonton, AB Canada T6G 2E9

jelane@ualberta.ca

AuburnU ConservationGenetics

Auburn University Department of Fisheries and Allied Aquacultures (Research Assistant II/III- Research As-

sociate I/II)

–Population Genetics

Auburn University's Department of Fisheries and Allied Aquacultures is seeking candidates for a Research Assistant/Associate. **This position is located at the United States Fish and Wildlife Service's Conservation Genetics Lab in Warm Springs, GA.** This is a one year limited term appointment. Continuation of employment is contingent on availability of funding. The successful candidate in this position is expected to work on various projects pertaining to population genetics of aquatic organisms and environmental DNA detection of aquatic invasive species in the southeastern United States. Essential functions include, but not limited to: DNA extraction and quantification; PCR and qPCR, genotyping of microsatellites and mtDNA sequencing; data analysis of population genetic data, report writing, and presentation of findings at professional meetings.

Designation as a Research Assistant requires a Bachelor's degree from an accredited institution in Biology, Zoology, or related field plus two years of experience in conservation genetics research. Designation as a Research Associate requires a Master's degree in Biology with a research emphasis in conservation genetics. Excellent interpersonal communication skills are required. The candidate selected for this position must be able to meet eligibility requirements for work in the United States by the start date and continue working legally for the proposed term of employment. Please attach a cover letter and resume to the on-line application. Only COMPLETE applications will be selected for consideration of the position.

Excellent computer skills in using programs such as Excel, R, and ArcGIS, STRUCTURE, GENEPOP, and parentage analysis software are desired.

Refer to requisition number 24520 and apply on-line at:

www.auemployment.com on any computer with internet access. If you need assistance, contact Auburn University's Department of Human Resources at (334) 844-4145 or your local state workforce agency. Internet access is also available through your public library.

Review of applications will begin after March 1, 2013.

Auburn University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

Denise Smith <smithm8@auburn.edu>

CIBIO UPorto MultiplePositions

CIBIO(<http://cibio.up.pt>) is a young and highly dynamic Research Centre located close to Porto, in the north of Portugal, which aims to be an international Centre of Excellence in the fields of Biodiversity and Evolution, offering great opportunities for multidisciplinary and stimulating research. The Centre is part of /InBIO/, a Portuguese Associate Laboratory, occupies recently-built facilities, and has more than 100 researchers holding a PhD degree, as well as more than 100 MSc and PhD students, and people from many different countries. Researchers are organized in 17 research groups. The working atmosphere is vibrant and enthusiastic, and CIBIO is regularly visited by many scientists from abroad. Porto is a world-heritage town, capital of Port wine, and the Northern region of Portugal provides rich cultural and outdoor activities. The Centre has fully equipped molecular laboratories (multiple PCR rooms, automated sequencers, real-time PCR machines, etc), as well as technicians and administrative staff, and the necessary equipment for fieldwork. Research projects are performed at a global scale. We are now advertising three 30-months full research contracts (www.eracareers.pt) primarily funded by a FP7 CAPACITIES program and expect to recruit enthusiastic and highly motivated researchers in the area indicated below. The positions are expected to start by March 1st, 2013. In all cases, ample possibilities and opportunities for continuation of research are expected to become available in the years to come.

Bioinformatics, Computational Biology and analysis of NGS data

Three 30-month research positions in the field of Bioinformatics/Informatics, Computational Biology and NGS data analysis are available at CIBIO (<http://cibio.up.pt>), University of Porto, to start a new Research Group. All areas of computational biology and bioinformatics will be considered. Applications from candidates with a demonstrated record of developing and/or applying computational approaches to study biological questions in areas including comparative genomics and transcriptomics, evolutionary genomics, phylogenomics, genetics/population genetics, and systems biology, and a demonstrated interest in collaborative research, are especially encouraged to apply. The successful candidates will contribute to several lines of

research involving next-generation sequence data analysis, meta-genomics, population genetics, phylogenetics and phylogeography.

The positions correspond to an exciting new role that will provide advanced and dedicated bioinformatics/informatics and computational biology expertise to CIBIO, University of Porto. Successful candidates are expected to deploy and maintain analytic and data management pipelines as well as generate custom bioinformatic solutions. They will be key members of CIBIO because they are expected to collaborate with faculty, staff, and students in the design of genomic experiments and the analysis of experimental data. Experience in the analysis of next-generation sequencing data is preferred. Good communication and writing skills are essential.

Applicants should have a PhD degree, a minimum of 3 years postdoctoral experience, and a significant publication record in SCI journals. We expect to recruit at the following levels:

1. A PI for the Bioinformatics/Informatics and Computational Biology Group. He/she will be expected to lead the Group, establish solid collaborations, and be able to attract national and international funding. As the candidate will be invited to participate in teaching at the MSc and PhD levels, a history of lecturing will be considered valuable. Salary will correspond approximately to a gross annual income of 90.000 EUR (before taxes).
2. Two leading scientists to integrate the Bioinformatics and Computational Biology Group. He/she will be expected to establish solid collaborations, and be able to attract national and international funding. As the candidate will be invited to participate in teaching at the MSc and PhD levels, a history of lecturing will be considered valuable. Salary will correspond approximately to a gross annual income of 50.000 EUR (before taxes).

In all cases, applications including a detailed CV, a statement of research interests and motivation, as well as the emails of at least three referees will be accepted until February 20th, 2013. However, the committee will begin reviewing applications immediately and continue until the position is filled. The positions are expected to start in March 1st, 2013. Informal inquiries and applications should be addressed to:

Dra. Sara Ferreira

Gestora de Ciência e Tecnologia

CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos

Campus Agrário de Vairão, Universidade do Porto



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CIBIO UPorto Portugal 3 BioInformatics

CIBIO(<http://cibio.up.pt>) is a young and highly dynamic Research Centre located close to Porto, in the north of Portugal, which aims to be an international Centre of Excellence in the fields of Biodiversity and Evolution, offering great opportunities for multidisciplinary and stimulating research. The Centre is part of /InBIO/, a Portuguese Associate Laboratory, occupies recently-built facilities, and has more than 100 researchers holding a PhD degree, as well as more than 100 MSc and PhD students, and people from many different countries. Researchers are organized in 17 research groups. The working atmosphere is vibrant and enthusiastic, and CIBIO is regularly visited by many scientists from abroad. Porto is a world-heritage town, capital of Port wine, and the Northern region of Portugal provides rich cultural and outdoor activities. The Centre has fully equipped molecular laboratories (multiple PCR rooms, automated sequencers, real-time PCR machines, etc), as well as technicians and administrative staff, and the necessary equipment for fieldwork. Research projects are performed at a global scale. We are now advertising three 30-months full research contracts (www.eracareers.pt) primarily funded by a FP7 CAPACITIES program and expect to recruit enthusiastic and highly motivated researchers in the area indicated below. The positions are expected to start by March 1st, 2013. In all cases, ample possibilities and opportunities for continuation of research are expected to become available in the years to come.

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The positions correspond to an exciting new role that will provide advanced and dedicated bioinformatics/informatics and computational biology expertise to CIBIO, University of Porto. Successful candidates are expected to deploy and maintain analytic and data management pipelines as well as generate custom bioinformatic solutions. They will be key members of CIBIO because they are expected to collaborate with faculty, staff, and students in the design of genomic experiments and the analysis of experimental data. Experience in the analysis of next-generation sequencing data is preferred. Good communication and writing skills are essential.

Applicants should have a PhD degree, a minimum of 3 years postdoctoral experience, and a significant publication record in SCI journals. We expect to recruit at the following levels:

1. A PI for the Bioinformatics/Informatics and Computational Biology Group. He/she will be expected to lead the Group, establish solid collaborations, and be able to attract national and international funding. As the candidate will be invited to participate in teaching at the MSc and PhD levels, a history of lecturing will be considered valuable. Salary will correspond approximately to a gross annual income of 90.000 EUR (before taxes).
2. Two leading scientists to integrate the Bioinformatics and Computational Biology Group. He/she will be expected to establish solid collaborations, and be able to attract national and international funding. As the candidate will be invited to participate in teaching at the MSc and PhD levels, a history of lecturing will be considered valuable. Salary will correspond approximately to a gross annual income of 50.000 EUR (before taxes).

In all cases, applications including a detailed CV, a statement of research interests and motivation, as well as the emails of at least three referees will be accepted until February 20th, 2013. However, the committee will begin reviewing applications immediately and continue until the position is filled. The positions are expected

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Dra. Sara Ferreira

Gestora de Ciência e Tecnologia

CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos

Campus Agrário de Vairão, Universidade do Porto



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CIBIO UPorto Portugal ConservationGenetics

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Conservation Genetics in the Tropics

A 30-months research position is available at CIBIO (<http://cibio.up.pt>), University of Porto, Portugal, in the area of conservation genetics in tropical regions. The candidate should have a solid research background in the interface between population genetics/genomics and conservation biology, as well as experience in dealing with endangered species. The candidate should master molecular biology techniques including genotyping and sequencing using both Sanger and NGS procedures.

It is appreciated if he/she already started to build a worldwide network of collaborators for future research in conservation genetics focusing on tropical regions, and a special emphasis will be given to projects to be developed in Brazil. The candidate should have a PhD in biology (zoology, animal sciences or related fields), a minimum of 3 years as Post-doc and a Curriculum vitae proving solid knowledge in conservation genetics. The candidate should additionally have a significant publication record in SCI journals for the above-mentioned topics and supervised or co-supervised academic theses (both MSc and PhD theses). Experience in teaching in this field will also be considered valuable. The candidate is expected to build his/her own research group, establish solid international collaborations, and be able to attract national and international funding. The candidate should be a good communicator and speak and write fluent English, and will be invited to participate in teaching at the MSc and PhD levels. The ranking of candidates will result from a global appreciation of the Curriculum vitae followed by a job interview. Salary will correspond approximately to a gross annual income of 50.000 EUR (before taxes).

Applications including a detailed CV, a statement of research interests and motivation, as well as the emails of at least three referees will be accepted until February 20th, 2013. However, the committee will begin reviewing applications immediately and continue until the position is filled. The positions are expected to start in March 1st, 2013. Informal inquiries and applications should be addressed to:

Dra. Sara Ferreira

Gestora de Ciência e Tecnologia

CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos

Campus Agrário de Vairão, Universidade do Porto

4485-661 Vairão Portugal

Telef: +351.252660411 Fax: +351.252661780 Email: cibio.up@cibio.up.pt

nmferran@fc.up.pt

CapitalNormalU Beijing 3 EvolutionaryBiol

College of Life Sciences, Capital Normal University, Beijing, China Three positions are offered at Prof., associate / assistant Prof., and postdoc levels in Molecular Ecology (Insects, hereinafter), Molecular Phylogeny, phylogenomics. Teaching Ecology for undergraduate at the new positions will be required at both prof. and assistant/associate Prof. levels. You will have a PhD in a relevant area above mentioned and a strong research record in Molecular Ecology or a related topic.

A letter of application should be sent, together with details of current and future research plans, a curriculum vitae, a publications list, with details of three referees, no later than 1 May 2013.

Ai-bing ZHANG, Ph.D. Genetic Diversity and Evolution Group College of Life Sciences, Capital Normal University, Beijing, 100048, P. R. China, Email: zhangab2008[at]gmail.com

Email2: zhangab2008[at]mail.cnu.edu.cn

ClemsonU InvertebrateEvolution

Faculty Position in Integrative Biology

The Department of Biological Sciences at Clemson University invites applications for a tenure-track faculty position in integrative organismal biology at the Assistant Professor level, to begin August 2013. Postdoctoral experience is required. We are seeking a broadly-trained biologist whose research utilizes multidisciplinary approaches to improve understanding of organismal adaptation and function of invertebrates. Specific areas of research are open but should emphasize comparative, experimental, or evolutionary approaches. The successful candidate will be expected to interact with faculty having diverse interests ranging from organismal biology, ecology, and evolution to cell, developmental, and molecular biology, thereby supporting University emphasis areas in Sustainable Environment and Biomedicine and Biotechnology. The successful candidate will also be expected to establish innova-

tive, externally-funded research programs of national distinction, and to be an excellent teacher. Teaching responsibilities include one upper level undergraduate course per semester in our animal diversity and/or functional biology core areas and graduate course(s) in one's specialty. Applications should include a cover letter, a curriculum vitae, a statement of current and planned research, and a statement of teaching philosophy and interests merged into a single .pdf file; three letters of reference are also required and up to three reprints may be included. Review of applications will begin February 15, 2013 and will continue until the position is filled. Please send the application pdf document and reprints by e-mail to: intbiosearch@clemson.edu. References should be instructed to send letters directly to this same email address with the applicant's name in the subject line. Further information about this position, departmental resources, programs, and faculty research interests are available at: <http://www.clemson.edu/biosci>. Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status or genetic information.

MPTACEK@clemson.edu

DukeU LabManager EvolAnimalCommunication

Laboratory Manager position available *

in the Patek Laboratory at Duke University

The Patek Lab is conducting a search for a laboratory manager to assist in all aspects of laboratory experiments and day-to-day operations. Research in the Patek Lab probes the interface between physics and biology by studying the evolution of fast movements and animal communication. We examine systems such as jaw-jumping ants, sound-producing spiny lobsters and hammering mantis shrimp. We use techniques ranging from bioacoustics and phylogenetics to high speed videography and materials testing. The Patek Lab will be joining the Biology Department at Duke University in the summer of 2013. For more information, visit: <http://bio.umass.edu/biology/pateklab/home>. Patek <patek@bio.umass.edu>

GeorgiaTech TeachingDirector

Georgia Tech's School of Biology is searching for a new Director of Introductory Biology Labs and TA Development. We are especially interested in faculty with experience in training teaching assistants and interest in innovative instruction. This is a non-tenure track faculty position. A complete job description is below and attached. If you have questions about Georgia Tech, Atlanta, or the position, please feel free to contact Chrissy Spencer (chrissy.spencer@biology.gatech.edu).

JOB AD: The SCHOOL OF BIOLOGY of the COLLEGE OF SCIENCES at the GEORGIA INSTITUTE OF TECHNOLOGY invites applications for an immediate opening for a full-time non-tenure track general faculty position as Director of Introductory Biology Laboratories and TA Development. It is expected that the position will be filled at the rank of Academic Professional beginning as early as May 2013. We seek a broadly-trained Ph.D. in Biology.

Candidates should have experience teaching undergraduate biology courses and an interest in innovative instruction. This position will require teaching, lab curriculum development, and supervision and professional development of teaching assistants in freshman biology courses, and will require expertise in at least one of the following subject areas: cell biology, microbiology, genetics, ecology, or evolution. In addition to overseeing the introductory biology labs, this academic professional may also teach in core biology courses in his/her area of expertise.

Salary will be commensurate with experience and qualifications. This is a renewable 12-month non-tenure track position. Candidates should complete the online application form by uploading a single PDF file containing a letter of application, a statement of teaching philosophy and summary of teaching experiences, sample course syllabi, a curriculum vitae and the names and contact information of three professional references to: <http://searches.biology.gatech.edu> Review of applications will begin immediately and will continue until the position is filled. Georgia Tech is an affirmative action, equal education/employment opportunity institution and requires compliance with the Immigration Control and Reform Act of 1986.

More information about the School is available via: <http://www.biology.gatech.edu> –

Chrissy Spencer, PhD School of Biology Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332 office 404 385 0539 fax 404 894 0519 chrissy.spencer@biology.gatech.edu

Chrissy Spencer <chrissy.spencer@biology.gatech.edu>

HalleU Germany EvolutionaryPhysiology

Please post the following advert for a chair in animal physiology at Halle University, Germany. Neighbouring groups focus on evolutionary biology so we're looking for an animal physiologist with a similar outlook. Many thanks,

Robert

robert.paxton@zoologie.uni-halle.de

A chair (grade W2) in animal physiology within the Natural Sciences Faculty I (Institute for Biology - Section Zoology) of Martin Luther University Halle-Wittenberg, Germany, is available from 1st April 2012.

We seek an individual with an internationally recognised research profile in the field of animal physiology who is also able to teach across the spectrum of animal physiology to Bachelors and Masters students as well as those students following a teacher-training pathway.

The research foci of the Faculty and the Institute of Biology are protein science and molecular plant science. Entomologically oriented applicants who strengthen or extend these research foci are particularly encouraged, as are those who can engage with current research areas, research groups and graduate colleges of the faculty. Current research of the Section Zoology of the Faculty (behavioural ecology, evolutionary biology, developmental biology) should be extended by the applicant. The usual duties associated with a chair (Law 34 of the higher education act of Saxony-Anhalt) apply to the position.

In addition to a doctorate, the applicant is expected to have an excellent publication record, a proven ability to acquire third party funding, and experience in university teaching, as demonstrated by the Habilitation or equivalent. The University aim to increase the proportion of women in leading positions. Thus, given equal qualifications, female applicants will be preferentially recruited. The University provides arrangements for coordinating accupation and family. Severely disabled

persons are encouraged to apply and will be favoured in the case of equal suitability.

Please send on: CV, copies of certificates of qualifications, a list of publications, documentation of teaching experiences, scientific career, and a list of successful grant applications. Please also provide a resume of past and future research plans as well as concepts for research collaborations with other groups at the University. For further information, please contact: Prof. Isabell Hensen (Tel. +49 0345 55-26210, Telefax: +49 0345 55-27228, E-Mail: isabell.hensen@botanik.uni-halle.de).

Please send applications (including work and private address) within 6 weeks of the appearance of this advertisement by mail and in electronic form to:

Martin-Luther-Universität Halle-Wittenberg Naturwissenschaftliche Fakultät I The Dean D-06099 Halle/Saale Germany

Email: dekanat.bnp@natfak1.uni-halle.de.

The salary for the incumbent follows the usual official and departmental budgetary guidelines.

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

HowardU PlantEvol InvertEvolution

Dear List members,

We are searching for two new tenure-track faculty in the Department of Biology at Howard University. Although these advertisements are deliberately broad, we are very interested in applications from evolutionary biologists and ecologists, and expect the teaching responsibilities for the new positions to fall within this concentration in our department. More information on the Biology Department at Howard can be found at (biology.howard.edu), and I would encourage those interested in applying to contact faculty members and/or our chair, Dr. Franklin Ampy, with any specific questions. The official ad is given below. All the best,

-Nate Smith nathan.smith@howard.edu

TWO TENURE-TRACK BIOLOGY PROFESSOR POSITIONS HOWARD UNIVERSITY, WASHINGTON, DISTRICT OF COLUMBIA

Howard University invites applications for two tenure track positions at the rank of ASSISTANT PROFESSOR

SOR starting in August 2013:

1. Invertebrate Biologist with some aspect of aquatic biology preferred
2. Plant Biologist with some aspect of global climate change preferred

Qualifications:

Candidates for these positions should have completed a Ph.D. in the relevant field and have an established record of research productivity. Teaching and post-doctoral experience are required. Successful candidates are expected to develop an externally funded research program, direct M.S. and Ph.D. students, and participate in teaching in the introductory general biology courses, as well as develop courses in their own specialty. Interested applicants should submit curriculum vitae along with a brief description of research interests, teaching experience and teaching philosophy, and arrange to have three letters of reference sent directly to:

Dr. Franklin Ampy, Chairman, Department of Biology
415 College Street NW, Room 126 Washington, D.C. 20059

Requested materials should be emailed to fampy@howard.edu by April 2, 2013. Candidates making the final list will be required to submit additional material. Screening of applications will be ongoing until the positions are filled. All qualified candidates are encouraged to apply.

Howard University does not discriminate on the basis of race, color, national and ethnic origin, sex, marital status, religion or disability.

Nathan D. Smith, Ph.D. Assistant Professor Department of Biology Howard University 415 College Street NW Washington, DC 20059 202-806-6941 nathan.smith@howard.edu Webpage: <http://dl.dropbox.com/u/86743464/web/smithnd/-Home.html> nathan.smith@howard.edu

InstZoology London FieldAssist TexasHoneyWasps

Field Assistant Needed for Behavioural Ecology fieldwork in Texas, April-May 2013*

* **Closing date: Wednesday March 13th 2013*

We are seeking a field assistant for 4-6 weeks starting mid April 2013, to help with a social insect behavioural ecology field study in southern Texas, USA. This is a collaborative project between the Institute of Zoology at London Zoo, and Queen Mary University of London. We work on an unusual and fascinating pollinator species, the Mexican honey wasp (see <http://www.texasento.net/Brachygastra.htm>). These wasps live in large paper nests in the area and share many behavioural features with honeybees. The project will focus on their foraging behaviour. We will work with live wasps, setting up artificial feeders, and carrying out video observations and dissections, so the successful candidate will gain excellent first-hand experience of behavioural ecology fieldwork.

Accommodation will be in a trailer shared with other members of the research group with shower, cooking facilities, etc., at a university extension centre in a small town. The field assistant will be part of a team with one principle investigator and one PhD student. Air fare (from the UK) and accommodation expenses will be provided, so each applicant will need to pay only their own food/personal expenses, which are relatively cheap in Texas.

Working conditions can be hard, in very hot temperatures, so applicants must have a fitness level suitable for fieldwork, and most importantly, an enthusiastic interest in evolutionary biology. *A driving license, valid passport and at least one year's driving experience is essential; applicants must also be over 21 to satisfy car insurance requirements.*

For more information, contact:

Elli Leadbeater (ellouise.leadbeater@ioz.ac.uk) or Erika Dawson (e.h.dawson@qmul.ac.uk).

To apply, send a covering letter and CV, including contact details (email addresses and telephone numbers) for 2 referees. Email as a single Word document or pdf to ellouise.leadbeater@ioz.ac.uk

Dr. Ellouise Leadbeater Leverhulme Early Career Research Fellow Institute of Zoology Zoological Society of London Regent's Park, NW1 4RY

+44 (0)7901 918423 ellouise.leadbeater@ioz.ac.uk
<http://www.zsl.org/science/ioz-staff-students/-leadbeater,1551,AR.html> ellileadbeater@gmail.com

Marseille Bioinformatics

* A Professor position is open in 2013. *

Research profile:

The successful candidate will conduct his research in the genetic and epigenetic of the human holobiontes. This research will require the use of NGS (next generation sequencing) analysis of the epigenome and use of NGA (next generation annotation). The candidate should have a good knowledge of biology, genetics and population genomics and comparative genomics. It will conduct his research independently with different groups constituting the Marseille IHU (Institute University/ Hospital of Marseille).

Teaching profile.: Bio-informatics and population genetics with their applications in medicine, at Bachelor and Master level. The candidate will also supervise, PhD students and Post doc.

Contact : Pierre Edouard Fournier - pierre-edouard.fournier@univmed.fr

Mexico Evolutionary Genomics

The National Laboratory of Genomics for Biodiversity of Mexico (Langebio) is a Unit of the Centro de Investigacin y de Estudios Avanzados± (CINVESTAV), a federal government institution devoted to basic and applied research. Langebio's mandate is to conduct top-ranked research and graduate education, while promoting genomic knowledge for the protection and sustainable use of Mexican biodiversity. Research at Langebio is conducted by an international team of scientists, with an emphasis on collaboration and multidisciplinary studies.

We invite applications, rank open, for Professor- Investigator. The successful applicant will utilize molecular, computational and/or genomic approaches to address fundamental questions about the mechanisms underlying the evolution and maintenance of biodiversity and will develop an internationally recognized research program.

While there is no restriction as to taxa, priority will be given to those applicants whose research includes Mexico's wealth of biodiversity.

<http://www.nature.com/naturejobs/science/-jobs/303025-Faculty-Positions> <http://www.langebio.cinvestav.mx> Applicants should send a CV, PDFs of their three most important publications,

and a three page description of their scientific accomplishments and proposed research program. Junior applicants should arrange for three reference letters to be sent separately.

Review of applications will begin February 28th, 2013. Send applications to the attention of Dr. Luis Herrera-Estrella, Langebio-CINVESTAV, Irapuato, Guanajuato, MEXICO, E-mail: mbernal@langebio.cinvestav.mx

Therese Markow <tmarkow@ucsd.edu>

NHM Los Angeles County Manager

Natural History Museum of Los Angeles County

The Natural History Museum of Los Angeles County is seeking a Vice President, Research & Collections. This position is responsible for leading the Research and Collections Division in engendering excitement and exposing the relevance of scientific discovery to the public. The Vice President oversees the various offices and departments within the Research and Collections Division including its five departments (Cultural Studies, the Dinosaur Institute, Invertebrate Studies, Vertebrate Studies and Collections Support) as well as the Museum Archives, Research Library, Scholarly Publications and the administrative office. This position is a high-level management position responsible for mission critical activities and/or complex divisions. As a member of the Executive Staff, the Vice President serves in a key leadership role including setting the Museum's strategic direction in collaboration with the President and other members of the Executive Staff.

Responsibilities for this position include, but are not limited to:

Organizational Planning: In conjunction with the Museum President and Executive Staff, sets the strategic vision and goals necessary to accomplish the vision. **Strategy Development and Implementation:** Develops annual and, as appropriate, multi-year goals and strategies for the Department/Division in support of the Museum's strategic plan and goals and oversees the Department's implementation of these goals. **Values:** Embodies the Museum's values and fosters their implementation on an organizational and divisional basis. Acts in an ethical manner. **Division Oversight:** Builds and develops the staff of the department to ensure a high quality workforce needed to accomplish divisional and orga-

nizational strategic goals. Works with divisional Directors and Managers to review their work plans and staff priorities to determine that the Division's goals will be achieved on an annual basis. **Evaluation:** Evaluates the effectiveness of the Museum and Division through established outcome measures and metrics and input from Directors and Managers. Works with Directors and Managers on making adjustments when outcome measures are not on track and other problem solving as needed. **Budgeting and Financial Oversight:** Is responsible for managing the Division's budget and the successful delivery of its goals on time and within budget. Works with the Finance Division on the preparation of divisional budget to ensure staff members have the resources and materials to complete their goals. Reviews financial statements to ensure the Department is achieving any revenue goals and within expense spending. Has responsibility for Museum's assets and resources. **Board Relations:** As directed by the President, provides staff assistance to the ongoing work of the Board of Trustees and its committees. **External Relations:** Represents the Museum in the nonprofit, foundation and broader community as needed or requested. Assists in the development of strategic alliances, which reinforce and enable the Museum's long-range strategic vision and goals to be accomplished. **Internal Relations:** Communicates regularly with the President on the Division's work, challenges, and the status of goal achievement. **Executive Management:** Serves as member of the Executive Staff, and participates in the development and assessment of organizational strategies. Engages in constructive dialogue with other Executive Staff members to ensure coordination or work among departments and timely resolution of important issues. Provides counsel and input as requested by the President. **Standard Setting and Policy Compliance:** Ensures that the Division is operating consistent with the Museum's policies and procedures. Makes recommendations for organizational and divisional policy. **Contract Negotiation and Oversight:** Approves all department contracts and vendor agreements contingent on review by in-house legal counsel. As needed, works with Legal Department on contract language. Has overall responsibility for the performance of contractors operating within the Division. **Judgment:** Performs duties related to the management of the Museum. Customarily and regularly exercises discretion and independent judgment. **General:** As appropriate works as a member of interdepartmental teams to ensure the effective and efficient operations of the Foundation.

Board Support: Staffs the Museum Content Committee of the Board of Trustees.

Research Agenda and Funding Strategy: Reviews and

assesses, with reference to peer and academic review processes, the scientific and historical research being conducted by the various departments of Research and Collections, ensuring that all activities advance the state of knowledge in their respective fields. Oversees the collaborative process within the division to develop a broad range of research project proposals, outlining within each proposal the project objectives, budgets,

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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>

NSF Director Evolutionary Processes

The NSF is seeking candidates for Program Director in the Evolutionary Processes and the Systematics and Biodiversity Science Clusters within the Division of Environmental Biology (DEB), Directorate for Biological Sciences (BIO) in Arlington, VA. The closing date for applications is March 15, 2013.

The Division of Environmental Biology (DEB) supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem services, conservation biology, global change, and biogeochemical cycles. Research on origins, functions, relationships, interactions, and evolutionary history may incorporate field, laboratory, or collection-based approaches; observational or manipulative experiments; synthesis activities; as well as theoretical approaches involving analytical, statistical, or simulation modeling.

The Evolutionary Processes Cluster supports research on microevolutionary processes and their macroevolutionary consequences. Topics include mutation, gene flow, recombination, natural selection, genetic drift, assortative mating acting within species, speciation, and long-term features of evolution. These investigations attempt to explain causes and consequences of genetically-based change in the properties of groups of organisms (at the population level or higher) over the course of generations as well as large-scale patterns of

evolutionary change, phylogeography, origin and maintenance of genetic variation, and molecular signatures of evolution at the population or species level. The cluster seeks to fund projects that are transformative – that is, those that will change the conceptual bases of evolutionary biology and have broad implications for future research. Both empirical and theoretical approaches are encouraged. The Cluster is comprised of two programs, Evolutionary Genetics and Evolutionary Ecology; proposals should be submitted to one of these programs.

The Systematics and Biodiversity Sciences Cluster supports research that advances our understanding of the diversity, systematics, and evolutionary history of organisms in natural systems. This research addresses fundamental questions in biodiversity, taxonomy, and phylogenetics, such as: What kinds of organisms exist in the natural world? How are they related? How did evolution lead to patterns of global biodiversity in time and space? How can phylogenetic history shed light on evolutionary patterns and processes in nature? Example topics include: expeditionary biodiversity research and discovery; identification and classification of organisms; and phylogeny and comparative phylogenetic biology. The SBS Cluster seeks to fund projects that are transformative - that is, those that innovatively and fundamentally transform our approaches to analyzing and understanding global biodiversity, its origins, distribution, and evolutionary history. The Cluster places a high value on integrative and holistic approaches to systematics research and training - i.e., those approaches and projects that integrate across all the components within the cluster (biodiversity discovery, organismal biology, taxonomy, phylogenetics, and evolution) and that train highly integrative systematists who can conduct research across the entire spectrum of these activities.

The responsibilities of the Program Director include long-range planning and budget development for the areas of science represented by the program or program cluster, the administration of the peer review process and proposal recommendations, the preparation of press releases, feature articles and material describing advances in the research supported, and coordination and liaison with other programs in NSF, other Federal agencies and organizations.

Applicants must possess a Ph.D. in biology or a related field with an emphasis in evolutionary or systematic biology. In addition applicants must have six or more years of successful research, research administration, and/or managerial experience beyond the Ph.D. in this scientific area.

These are full time, permanent positions with a 12

month salary of \$105,211 to \$163,957 per year, stationed in Arlington, VA. Applicants must be US Citizens or permanent US residents who are actively seeking citizenship.

Please visit <https://www.usajobs.gov/GetJob/ViewDetails/336904300?org=3DBIO> for details about the job and instructions on how to apply.

You may contact me directly about specific questions you might have about this opportunity!

George W. Gilchrist, Ph.D. Program Director, Evolutionary Processes Division of Environmental Biology National Science Foundation

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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>

NorthernArizonaU MicrobialEvolution

A short job description is as follows: Northern Arizona University is seeking the following: Biological Sciences, Assistant Professor < http://hr.nau.edu/node/-2796&job_req=600185 > (600185) - Biological Sciences \$60,000 - \$70,000 for the nine month academic year depending on qualifications and experience. Special Information: This is a tenure-track Assistant Professor position in a large microbial pathogen molecular genetics laboratory (70+ staff and students) starting August 19, 2013. This position is grant funded and subject to the availability of funds. Not subject to layoff or recall status. This position will be funded from extramural "soft" monies. Success at obtaining extramural funding will be a major criterion for granting tenure. A Criminal and employment history background investigation will be performed prior to employment offer. A willingness to undergo and then pass a FBI SRA clearance is required in order to function in this position.

Debbie Martin Business Manager, Senior Center for Microbial Genetics & Genomics Northern Arizona University PO Box 4073 Flagstaff, AZ 86011-4073 928-523-0509 928-523-4015 fax

Deborah Anne Martin <Deborah.Martin@nau.edu>

OklahomaStateU Stillwater EvolutionaryPhysiology

Assistant Professor, Animal Physiologist Tenure-track. The Department of Zoology at Oklahoma State University (<http://zoology.okstate.edu>) is searching for a physiologist working within the context of behavior, ecology, environmental stress, or evolution. Examples of research focus could include aging, developmental biology, endocrinology, metabolic physiology, and neurophysiology. Applicants should have a Ph.D., post-doctoral experience, teaching experience, and success in obtaining extramural funding. Responsibilities include establishing an extramurally funded research program, mentoring M.S. and Ph.D. students, and teaching at the undergraduate and graduate levels. To apply please 1) send a single pdf file composed of a cover letter, curriculum vitae, and statements of research interests and teaching philosophy, and 2) have three letters of recommendation sent to the search committee chair, Dr. Puni Jeyasingh, at *zoologysearch@okstate.edu*. Application review will begin March 29, 2013, with employment beginning August 15, 2013. Filling of this position is contingent upon availability of funding. *Oklahoma State University is an AA/EEO/E:Verify Employer committed to diversity. OSU-Stillwater is a tobacco-free campus.*

Puni Jeyasingh 501 Life Sciences West, Department of Zoology, Oklahoma State University, Stillwater, OK 74078-3052. Phone: (405) 744-9634. Fax: (405) 744-7824. www.elementalbiology.info Puni Jeyasingh <puni.jeyasingh@okstate.edu>

Seewiesen Germany 2 FieldAssist BlueTit

job advertisement for field assistants:

For our blue tit project in Seewiesen (near Starnberg) we need

two field assistants / part-time employees (450 â-base)/short term employees/internship/studentassistants

from March to mid June 2013

Das Max-Planck-Institut für Ornithologie in Seewiesen (near Munich, Germany) is an international research institute, focusing primarily on experimental and theoretical research in the fields of evolutionary ecology, genetics and neurobiology. Currently there are two locations (Seewiesen and Radolfzell) three departments, six research groups and over 200 employees.

We study why individuals differ in their mating behaviour and how this affects their reproductive success and survival. For more information see http://www.orn.mpg.de/2612/Abteilung_Kempenaers

Responsibilities:

Our study site is the Westerholz, a natural forest reserve near Landsberg am Lech.

- Monitoring nest and breeding activities of blue tits (*Cyanistes caeruleus*)
- Catching and handling (banding and measuring) of the birds
- Maintenance of our electronic nest boxes and installation of experimental equipment
- Data entry and data management

Qualifications:

You should have experience with bird handling, you are highly motivated and well organized, and able to work independently, while at the same time you function well in a group. You have a driving license and good driving practice for at least one year, and you are experienced in operating vehicles with manual transmission.

Non-EU applicants should make sure that they are eligible for an extended stay in Europe. Accepted assistants should be vaccinated against tick Borne Encephalitis (TBE or FSME) before starting field work. Applicants should be also aware that Lyme disease (carried by ticks) is prevalent in the area and should inform themselves about this disease beforehand.

The field work is physically demanding and takes place under all weather conditions. The breeding season is intense with long working days, also on weekends and holidays.

We offer a stimulating and diverse activity at an internationally-oriented modern research institute.

We would highly appreciate it, if accepted field assistants would live in our guest house in Seewiesen during the field season.

We offer a payment in accordance with the collective agreement for public employees (TVöD). In addition, benefits in accordance with the regulations of the pub-

lic service may be granted.

In an effort to employ more people with disabilities, the Max Planck Society specifically encourages people with disabilities to apply for the position.

For inquiries, please contact Mrs. Türk, tel 08157 932-410, email tuerk@orn.mpg.de or

Wittenzellner, tel. 08157 932-335.

If you are attracted by this challenge at our institute, please send your application with CV until the 18. February 2013 to

Max-Planck-Institut für Ornithologie personal administration Eberhard-Gwinner-Str. 82319 Seewiesen

oder per E-Mail an: personal@orn.mpg.de

Kristina Schmid

Personalabteilung

Max-Planck-Institut für Ornithologie Eberhard-Gwinner-Strasse 82319 Seewiesen

Fon: +49 (8157) 932 - 216 Fax: +49 (8157) 932 - 214

E-Mail: kristina.schmid@vw.orn.mpg.de

“Schmid, Kristina” <kristina.schmid@vw.orn.mpg.de>

ShizuokaU EvolBiology

Department of Systems Engineering has an opening for a tenured professor in the fields of either systems engineering or information sciences broadly. Systems engineering may include systems biology (broadly), evolutionary biology in the fields of behavioral sciences (decision analyses and game theory), evolutionary dynamics or any sort of optimization theory, and dynamical systems, conservation biology, but not limited to them. Information sciences may include bioinformatics and related fields in biology. We are specifically looking for a world leading scientist of his/her speciality to make a core group here in Hamamatsu, Japan. The description of the job is below:

Position Opening: Professor of Systems Engineering Shizuoka University, Hamamatsu The Department of Systems Engineering, Faculty of Engineering, Shizuoka University, invites nominations and applications for a faculty position at the level of tenure professor, as described below. Faculty of Engineering and Graduate School of Engineering will be reformed on April 2013 and the prospective professor will be affiliated to De-

partment of Mathematical and Systems Engineering. 1. Position: Professor (one position) 2. Department: Department of Systems Engineering 3. Research field: Information Sciences or Systems Engineering 4. Teaching courses: Undergraduate and graduate courses in information sciences or systems engineering. 5. Qualifications: Candidates must have completed their Ph. D. Willingness to teach undergraduate and graduate students eagerly. 6. Starting date: July 1, 2013 at earliest (negotiable) 7. Application materials: Applicants should submit the following documents: (1) A CV with photo and email address (2) A list of publications (categorize under a) refereed journal papers, b) review papers, c) books, d) conference/proceeding papers with reviewed or not, e) patents, f) administrative records, and social activities, etc.) (3) an outline of previous researches and teaching activities (up to 2 pages) (4) research interests and teaching statements (up to 2 pages) (5) the list of research grants awarded with the specifications of principal/collaborate investigators (6) the names and addresses of two referees who have agreed (email/phone necessary) (7) major papers in pdf files (up to 5). Note that documents (1)-(6) should be combined in a single pdf file. 8. Deadline: Monday, March 4, 2013 (received). 9. Formal application and informal inquiries to: Jin Yoshimura, Chair, Search Committee, at jin(at)sys.eng.shizuoka.ac.jp, where (at) is @. Shizuoka University is an Equal Opportunity Employer. Priority is given to a woman, foreigner and handicapped if qualified equally. The official retirement of the university is 65 (those reached/are reaching age 65 by 1st April will retire at 31st March).

Jin Yoshimura <jin@sys.eng.shizuoka.ac.jp>

StockholmU InsectFunctionalGenomics

Post Docs and PhD positions - Insect life cycle functional genomics: an integrative study in butterflies and fruit flies

Several positions are available to study the genetic, physiological, and ecological basis of insect life cycle adaptation in the wild. The project aims to explicitly integrate the extensive ecological knowledge available for the butterfly *Pieris napi* with molecular tools available for the *Drosophila* model system. As an ecological and evolutionary functional genomics project, the team of senior researchers at Stockholm University, Sweden,

are from diverse biological disciplines.

We will initially target the genetic and plastic variation underlying diapause, wing color variation and immunity. Many tools will be used, including genome and transcriptome sequencing, metabolomics, and proteomics.

Available positions include:

- a two-year postdoctoral position to work on *P. napi* ecological genomics

- a two-year postdoctoral position to work on the genetics and biology of *Drosophila* diapause

- a PhD position focused primarily upon *P. napi* ecological genomics

- a researcher at any level able to contribute with bioinformatics experience suitable for this five-year project

This project is funded by the K&A Wallenberg Foundation and the Swedish Research Council. If you feel you have a strong background in any of these fields, please contact Prof. Sören Nylin (soren.nylin@zoologi.su.se) for further information.

Christopher W. Wheat, Ph. D.

Department of Zoology: Population Genetics Svante Arrheniusväg 18 B Room D 551 Stockholm University S-106 91 Stockholm SWEDEN

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<http://www.christopherwheat.net> “Stay hungry, stay foolish” Steve Jobs

Christopher Wheat <christopher.wheat@helsinki.fi>

StockholmU PopulationGenetics

The Department of Zoology at Stockholm University has just opened a search for a Senior Lecturer / Associate Professor in Population Genetics

The position involves research, teaching, and supervision in the broad field of population genetics, including conservation genetics and population genomics/proteomics. Teaching experience in statistics is desirable. Average expected time commitment is approximately 30% teaching, 70% research. Recently, significant investments have been made in genomics at Stockholm University, both in-house and in collabo-

ration with the SciLifeLab (<http://www.scilifelab.se/>). At the Department of Zoology, research is being pursued in ecology, ethology, functional morphology, population genetics and systematics & evolution. The spirit of research in the Department is very collegial and collaborative, both within the department and internationally. The department has 45-50 staff and 45-50 PhD students.

Stockholm is one of the true gems of Europe, considered the Venice of the north and commonly ranking in the top 10 most livable cities on Earth. Transportation connections from the University to the center of Stockholm are excellent, and Sweden is a global leader in social services and benefits.

Informal enquiries can be made to Head of Department Prof. Sören Nylin (soren.nylin@zoologi.su.se). Note that applications should be submitted through the Stockholm University website, where further details also are available:

<http://www.su.se/english/about/vacancies/lecturers-researchers/senior-lecturer-in-population-genetics-1.122514> Closing Date: Monday April 8, 2013

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Soren Nylin Professor i Zoologisk Ekologi/Professor of Animal Ecology

Prefekt/Head of Department Department of Zoology
Stockholm University S-106 91 Stockholm SWEDEN

Soren.Nylin@zoologi.su.se Tel +46-8-164033 Fax
167715

soren.nylin@zoologi.su.se

StonyBrookU HumanEvolutionaryBiol

Anthropology - Human Evolutionary Biology - Physiologist

As an appointment in an interdepartmental initiative in Human Evolutionary Biology, Stony Brook University invites applications for a tenure-track position in the Department of Anthropology at the level of Assistant Professor, beginning Spring 2014. The successful candidate for this position will have an outstanding research program, a commitment to excellence in teaching and will participate in a new interdepartmental university initiative in Human Evolutionary Biology, an under-

graduate major jointly offered by the Departments of Anthropology and Ecology & Evolution.

The Department of Anthropology seeks a Physiologist with an evolutionary perspective. Research area may include, but is not limited to, behavioral endocrinology/genetics, musculoskeletal physiology, digestive physiology or sensory physiology/ecology. The successful candidate will teach an undergraduate course on the physiology of human behavior for the Human Evolutionary Biology major and develop advanced courses in his/her area of expertise. The candidate will be expected to secure external research funding, and play an active role in our highly ranked graduate programs. Applicants must have a Ph.D. by the starting date and a strong publication record.

Applicants should apply via AcademicJobsOnline.Org <http://academicjobsonline.org/ajo/jobs/2572>. Applications should include a cover letter stating research and teaching interests, curriculum vitae, up to three examples of publications, and three reference letters (to be submitted by the reference writers through AcademicJobsOnline.Org). Applications should be addressed to the Physiology Search Committee, Department of Anthropology, Stony Brook University, SBS Bldg. S-501, Circle Rd, Stony Brook, NY 11794-4364, USA. For full consideration applications and letters of reference should be submitted by March 30, 2013. Questions about the search should be directed to the Physiology Search Committee at <anthropology@stonybrook.edu>. Stony Brook University is an Equal

Stephanie Maiolino Department of Anthropology Stony Brook University Stony Brook, NY 11794-4364 Opportunity/ Affirmative Action Employer.

Anthropology
<anthropology@stonybrook.edu>

Database

TromsoMuseum InvertebrateEvolution

This position is now announced, with direct link: <http://www.jobbnorge.no/job.aspx?jobid798>

Professor/F©rsteamanuensis (associate professor) in Zoology (invertebrates) at the Troms© University Museum, Department of Natural Sciences Application deadline: 07.03.2013 Applications shall be marked: Ref. no. 2012/5717

The University of Tromsø, Tromsø University Museum, has a permanent position vacant as Professor/Førsteamanuensis (associate professor). The position is attached to the Department of Natural Sciences.

Further information about the position is available by contacting the Museum Director Marit Anne Hauan, phone + 47 77 64 50 30, e-mail marit.hauan@uit.no or Head of Department Karl Frafjord, phone +47 77 64 57 25, e-mail: karl.frafjord@uit.no

Application documents (see below) shall be sent to:

University of Tromsø Tromsø University Museum NO-9037 TROMS.

In addition, the application must be submitted electronically via the application form available on www.jobbnorge.no. The positions affiliation The main objectives of the Tromsø University Museum are research, development and preservation of the museums collections, administration and dissemination. The museum has two academic departments, the Department of Natural Sciences and the Department of Cultural Sciences, and the underlying units Polar Museum and MS Polstjerna and Tromsø Arctic-Alpine Botanic Garden.

The position as Professor/Førsteamanuensis (associate professor) is attached to the Department of Natural Sciences, which is responsible for developing and maintaining scientific collections of objects (animals, plants, fossils and minerals) as well as dissemination activities. The department engages in research within the fields of taxonomy, phylogeography, ecology and biological and geological diversity. The department has a laboratory for molecular genetics. The department has a permanent staff of 17, of which 10 are in academic positions. For more information about the Tromsø University Museums activities, visit: <http://uit.no/tmu?sprakkode=2> The positions field of research/field of work The positions duties include research and research-based activities, collection duties, dissemination, teaching, supervision of PhD students and administration. The successful candidate must also be willing to undertake responsibility for zoological collections over and above his/her own field.

The successful candidate shall engage in research on invertebrates from the High North, particularly within the fields of systematics and biodiversity.

Qualifications for position as Professor The museum is searching for a candidate with competence in the fields of taxonomy and systematics in one or more groups of northern vertebrates. Experience with genetic analysis is desirable. Competence within biodiversity and ecological processes will be an advantage. Preference will

be given to applicants with competence in terrestrial invertebrates and entomology.

The Tromsø University Museum works primarily within the geographical areas of Northern Norway and Svalbard. Therefore, this shall be the successful candidates main field of work.

The general requirement for appointment as a professor is an academic level conforming to established international or national standards within the discipline. In order to be awarded a professorship, applicants shall be able to document substantially more extensive research of high quality than that required to attain a doctorate degree. Major emphasis is attached to international publications with peer review.

Further, applicants must be able to document teaching qualifications in the form of university-level teaching seminars, other teaching education or through having developed a teaching portfolio. Alternatively, after carrying out an assessment of the applicants practical teaching skills, the committee may determine that this may be regarded as of equal value to formal teaching qualifications. For further information about requirements for teaching qualifications, refer to the website about teacher training courses < http://uit.no/-ansatte/organisasjon/artikkel?p_menuB374&p_lang=-2&p_document_id9547&p_dimension_id155 >.

Applicants shall normally have been principal supervisor for at least two PhD students.

Moreover, applicants should have experience in academic management, be able to refer to good networking ability both nationally and internationally and document activity in the international research arena, as well as be able to document a good ability to attract external financing of research projects.

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UBergen EvoDevo

Early Stage Researcher (ESR) position Development and evolution of the mesoderm in Invertebrates±

An Early Stage Researcher position is offered in the FP7 Marie Curie Initial Training Network (ITN) (Mul-

tidisciplinary training in evo-devo and neurobiology of marine animal models.±NEPTUNE± project. NEPTUNE will train a new generation of biologists through cutting edge research on marine animal models. The network unites 8 leading European labs with complementary expertise in evolutionary developmental biology (EvoDevo), bioinformatics, functional neurobiology, and palaeontology; four leading visiting researchers from Europe and the US; a full partner from industry, Sigma-Aldrich, specialised in advanced genetic manipulation technology; and, as associate partner, a leading manufacturer of microscopy systems, Carl Zeiss MicroImaging GmbH.

The project will be conducted in the group Comparative Developmental Biology± of Dr. Andreas Hejnol at the Sars Centre and through short term visits in the partner laboratories of NEPTUNE± (see www.sars.no/research/neptune.php). The Hejnol group studies a broad range of mainly marine invertebrates using genomic, embryological, and advanced microscopic and molecular methods. The project will study a diverse range of invertebrate taxa with the goal to reconstruct the evolution of major organ systems such as the circulatory system, nephridia, muscles and the digestive tract. The project will also address the evolution of the molecular patterning underlying the specialization of mesodermal cell types..

The Sars Centre is a partner of the European Molecular Biology Laboratory (EMBL) < <http://www.embl.de/> > and a department of Uni Research AS < <http://www.uni.no/> >, affiliated with the University of Bergen < <http://www.uib.no/info/english/> >. The Centre is focused on basic research in marine molecular biology, developmental biology and evolution, through genetic and comparative studies of invertebrates and vertebrates. The institute has employee insurance and pension agreements and is an equal opportunity employer. The appointee will have the opportunity to enroll in the University of Bergens Molecular and Computational Biology Research School (MCB) < <http://www.uib.no/rs/mcb> > PhD program if enrollment qualifications are met.

Applicants are required to have experience in molecular biology and experience in evolutionary biology is advantageous. The position must start no later than November 2013 and is open only to individuals who have spent less than 12 months in Norway in the last three years. In addition, applicants must be in the first four years (full-time equivalent) of their research careers and not yet have been awarded a doctoral degree. This is measured from the date when they obtained the degree that would formally entitle them to embark on a doctorate, either in the country in which the degree was

obtained or in Norway. The length of this appointment will not exceed 3 years. Salary is based on educational background and qualifications.

For further information regarding the position and scientific content of the project please contact the Group Leader, Dr. Andreas Hejnol (email andreas.hejnol@sars.uib.no, phone +47 55 58 43 28). For information about the ITN granting requirements see FP7 Marie Curie People site < http://ec.europa.eu/research/mariecurieactions/about-mca/actions/itn/index_en.htm >.

Written applications, in English, should include a C.V., summary of educational and work experience, a statement describing your interest in developmental biology and evolutionary questions and contact information for two references. Applications marked 13Sars.02. can be mailed to: Human Resource Officer, Sars Centre, Bergen High Technology Centre, Thorm@hlsngt. 55, NO-5008 Bergen, Norway. Application deadline 28 February 2013.

Applications by e-mail only will not be considered.

Carol Bruce HR Consultant Sars International Centre for Marine Molecular Biology Thorm@hlsngt. 55 5008 Bergen Norway Tlf: +47 55 5843 60 cell: +47 920 67 947

Carol Bruce <Carol.Bruce@sars.uib.no>

UBristol 2 FieldAssist MongooseEvolution

Please could you send out the following (many thanks):

JOB: Field assistants sought for Dwarf Mongoose Project

We are seeking two research assistants to help conduct fieldwork in South Africa on dwarf mongooses.

The Dwarf Mongoose Project was established in 2011 on Sorabi Rock Lodge Reserve, Limpopo Province, South Africa. Currently we work with 7 wild groups that have been habituated to the close presence of observers; group members are individually marked and many have been trained to climb on a balance scale to weigh themselves. Researchers live in a house overlooking the Limpopo River on the neighbouring reserve.

Work will include behavioural observations, sound recordings, GPS tracking, weighing of individuals and

assistance with playback experiments.

One post will commence beginning of April 2013 (application deadline: 3rd March); the other will start late June/early July 2013 (deadline: 30th April). Assistants need to be available for a minimum of 3 months and hold a valid driving licence.

Food and accommodation will be provided, but assistants will need to fund their own travel (there may be the possibility to apply for a summer studentship).

Previous fieldwork experience, especially in Africa, will be viewed as advantageous.

To apply for the post, please send a cv (including names of 2 referees) and a cover letter (indicating your preferred start date) to Andy Radford (andy.radford@bristol.ac.uk), University of Bristol, UK.

Dr Andy Radford Reader in Behavioural Ecology School of Biological Sciences University of Bristol Woodland Road Bristol BS8 1UG
Andy.Radford@bristol.ac.uk Tel: 0117-9288246

A Radford <Andy.Radford@bristol.ac.uk>

UCambridge BiostatisticsPostgenomics

Statistician (Research Associate/Senior Research Associate)

Closing date: 17 Feb 2013

JDRF/WELLCOME TRUST DIABETES AND INFLAMMATION LABORATORY

The JDRF/Wellcome Trust Diabetes and Inflammation Laboratory (DIL; <https://www-gene.cimr.cam.ac.uk/>) has been at the forefront of recent international success in discovering the genetic variants associated with type 1 diabetes and their function. We are now working to understand the mechanism through which genetic variation can influence disease risk both through studies of healthy individuals who carry genetic susceptibility variants and within the context of intervention trials with individuals with new onset diabetes.

We require an experienced statistician with an established track record to join our statistics group (<https://www-gene.cimr.cam.ac.uk/staff/dilstats/>), which is a friendly group of Bayesians and frequentists who analyse a diverse range of low and high dimensional data, in-

cluding flow cytometric, gene expression, genotype and sequencing data. Our challenge is to integrate analyses of these data to address the research aims of the DIL. The DIL is located in the Cambridge Biomedical Research Campus and we are building strong collaborative links with the MRC Biostatistics Unit (<http://www.mrc-bsu.cam.ac.uk/>) under its recently appointed director, Professor Sylvia Richardson.

The ideal candidate will have a PhD in statistics or a closely related discipline, several years postdoctoral experience, excellent statistical programming skills, and an ability to communicate and present results both to other statisticians and scientists. She or he will be expected to have some supervisory responsibility for the more junior post docs in our group. Knowledge of genetics or type 1 diabetes is less important than an interest in applying the innovative statistics we have found necessary when dealing with data generated by rapidly developing technologies, in order to answer questions of importance to biology and health.

Senior Research Associate status may be available for suitable candidates subject to Faculty Board approval.

Further information and an application form can be found at <https://www-gene.cimr.cam.ac.uk/-jobs/statistician-2013-02-15.shtml> Informal enquiries may be addressed to Chris Wallace <chris.wallace@cimr.cam.ac.uk> or John Todd <john.todd@cimr.cam.ac.uk>.

Chris Wallace <chris.wallace@cimr.cam.ac.uk>

UCambridge EvolutionaryMolGenet

I would like to draw your attention to a Professorship advertised at the University of Cambridge in Molecular Genetics. Although this isn't a specifically evolutionary position, the remit does include evolutionary molecular genetics. If anyone is interested feel free to contact me in the first instance. Cambridge has a thriving evolutionary genetics community and we also benefit from proximity to the Sanger Institute. See <http://heliconius.zoo.cam.ac.uk/comevolgen/> Here is the advert as it was published in Science (<http://scjjobs.sciencemag.org/jobs/103-99361/The-Herchel-Smith-Professorship-of-Molecular-Genetics-University-of-Cambridge-Cambridge-ENG>)

The Herchel Smith Professorship of Molecular Genetics
 The Board of Electors to the Herchel Smith Professor-

ship of Molecular Genetics invite applications for this Professorship from persons whose work falls within the general field of the Professorship to take up appointment by 1 September 2013.

Candidates will have an outstanding research record of international stature in Molecular Genetics and the vision, leadership, experience and enthusiasm to build on current strengths in maintaining and developing a leading research presence.

The annual pensionable stipend for a professor is on a scale from £65,435 to £132,860 with the possibility of market supplementation where appropriate. Standard professorial duties include teaching and research, examining, supervision and administration. The Professor will be based in central Cambridge.

Further information is available at: www.admin.cam.ac.uk/offices/academic/secretary/-professorships/ or contact the Academic Secretary, University Offices, The Old Schools, Cambridge, CB2 1TT, (e-mail: ibise@admin.cam.ac.uk), to whom a letter of application should be sent, together with details of current and future research plans, a curriculum vitae, a publications list and form CHRIS/6 (parts 1 and 3 only) with details of three referees, so as to reach him no later than 12 March 2013.

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

UCopenhagen Biodiversity

Center of Macroecology, Evolution and Climate Natural History Museum of Denmark and Department of Biology University of Copenhagen

Faculty Professor and Associate Professor positions

Fixed-term postdoc and Assistant Professor positions in

Biogeography, Phylogeography, Macroecology, Macroevolution and Community Ecology

We seek international competitive candidates with a

strong publication record at the level of position interested in. We expect strong analytical and data handling skills and the ability to communicate within a cross-disciplinary research center. Competitive salaries are offered.

For full description of the individual positions see www.bio.ku.dk or www.employment.ku.dk. Inquiries can be made to Professor Carsten Rahbek, e-mail: crahbek@bio.ku.dk

The center (<http://macroecology.ku.dk/>) is a long-term funded center of excellence with a cross-disciplinary research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth. Researchers at the center currently represent 14 nationalities and the working language is English.

Lisbeth Andreassen Centeradministrator, cand.mag. Center for Macroecology, Evolution and Climate Department of Biology University of Copenhagen Universitetsparken 15, DK-2100 Copenhagen, Denmark

Phone: +4535321259 Fax: +4535321250

E-mail: LAndreassen@bio.ku.dk

Lisbeth Andreassen <LAndreassen@bio.ku.dk>

UEdinburgh LectureshipQuantGenetics

Institute of Evolutionary Biology, School of Biological Sciences, University of Edinburgh.

Lectureship in Quantitative Genetics.

This new lectureship will enhance our research and teaching in the genetic basis of complex traits and associated disciplines. Working in a large and multidisciplinary group of evolutionary biologists, you will have an outstanding opportunity to develop your own research and teaching programme in a well-supported environment. You will have a PhD in a relevant area of biology and a strong research record in quantitative genetics or a related topic.

Edinburgh has an outstanding tradition of scholarship in quantitative genetics. Today, supported by excellent genomic facilities, well over 100 staff and PhD students of the University of Edinburgh, the MRC, the Wellcome Trust and the SRUC (formerly the Scottish Agricultural College) based in Edinburgh are investigating

the genetics of complex traits in a range of organisms including human, domestic, laboratory and wild populations. The Institute of Evolutionary Biology, which is part of the School of Biological Sciences, contains strengths in the study of both evolutionary quantitative genetics, in particular in wild animal populations, and in genomic analysis of complex traits. We now wish to add to these strengths by appointing a new lecturer in any aspect of quantitative genetics, interpreted in the broadest sense.

For further information about the Institute go to <http://www.ed.ac.uk/schools-departments/biology/-evolutionary-biology>

For informal enquiries email the head of institute Prof. J.M. Pemberton, j.pemberton@ed.ac.uk

For full particulars and application process go to <http://www.ed.ac.uk/schools-departments/human-resources/jobs/applying/apply> go to link 'search for a vacancy' and look up look up ref 010722.

Deadline 27th March 2013.

Prof. J.M. Pemberton Institute of Evolutionary Biology School of Biological Sciences University of Edinburgh West Mains Road EH9 3JT

tel 0131 650 5505 fax 0131 650 6564 <http://wildevolution.biology.ed.ac.uk/> Josephine Pemberton <j.pemberton@ed.ac.uk>

UFlorida QunatitativeBiology

The University of Florida is searching for up to 2 Quantitative Scientists/Biometricians that use cutting-edge theoretical and applied statistical tools to conduct interdisciplinary and hypothesis-driven research bridging the gap between quantitative tools and biological or social sciences.

The ideal faculty candidates should have experience collaborating/consulting with scientists across a broad range of disciplines.

A strong commitment to exceptional teaching is essential, with experience teaching graduate courses in advanced statistical modeling and methods.

The appointments are 12-month, tenure-track, at the rank of Assistant Professor. Appointment at Associate or Full Professor may be possible for exceptional candidates.

More information can be found at: <https://jobs.ufl.edu/postings/37533> I would strongly encourage evolutionary biologists with experience using and/or developing advanced statistical methods to apply for this position.

Bryan Kolaczowski

Department of Microbiology and Cell Science University of Florida

bryank@ufl.edu

UGroningen MarineEvolutionConservation

Please post – we are also interested in applicants with an evolutionary approach/interest.

Thanks,

Per

Tenure Track Assistant Professor Marine Ecological Genetics (1,0 fte) (213049)

Organisation

The University of Groningen offers excellent career prospects The Faculty of Mathematics and Natural Sciences is offering young, talented researchers positions which are at the level of Assistant Professor via the tenure-track system. Researchers are given the opportunity to develop their own line of research. The faculty's career policy is characterized by flexible personnel management with a focus on the individual. Academic achievements are seen as being central to the academic career, and ample opportunities for professional development and supplementary training and education are offered. Arrangements for training in the area of teaching will be made with all new employees. The policy is directed at increasing the number of women in academic staff positions. Career advancement policies for women will also be improved, and women will be actively encouraged to develop their careers. The appointment will be on a temporary basis for a maximum of 6 years. On completion of 5 years of employment there will be an assessment of performance based on established criteria including research and teaching qualifications. If the outcome of the assessment is positive, the assistant professor will be promoted to the rank of associate professor with tenure. At the end of a further 4 -7 year period there will be another assessment aimed at a promotion to full professor.

University of Groningen was founded in 1614 and ranks amongst the best universities in Europe and worldwide in a range of research disciplines. The University of Groningen is rooted in the North of The Netherlands and is internationally oriented with a socially active environment. Our researchers and lecturers are inspired academics and our students ambitious. We respect the differences in talent, ambitions and performance of the 25,000 students and members of staff.

The university provides a career advisory service for partners of new staff who move to Groningen.

Job description

The Centre for Ecological and Evolutionary Studies (CEES) at the University of Groningen has a vacancy for a tenure track assistant professor in Marine Ecological Genetics. CEES offers excellent opportunities and infrastructure for experimental research in the fields of ecology and evolution. Research programmes range from marine to terrestrial ecosystems and from polar to tropical regions. Research is pursued in collaboration with, among others, the Royal Netherlands Institute for Sea Research and European and non-European research institutions. CEES invites applications for a tenure track position at the Assistant Professor level in Marine Ecological Genetics as part of the research group Marine Evolution and Conservation (MarECon). We seek a new faculty member with a background in population genetics and genomics of pelagic marine animals. Specific (but not exclusive) focus-areas include palaeogenetics and adaptation to climate change. Experience in “next generation sequencing technologies” and bioinformatics is highly desirable. The applicant’s research is expected to contribute to the existing programme and expertise, while simultaneously bringing something new and complementary.

Qualifications

Applicants must have a PhD degree and a strong record of research accomplishments appropriate to their career stage. The successful candidate will actively participate in the teaching and research programmes of the faculty and the Center for Ecological and Evolutionary Studies (CEES).

Candidates will need to have the following qualifications:

- a doctorate in the field of marine biology with special interest in population, evolutionary genetics/genomics, community genetics/genomics or related field

- two or more of years of experience outside The Netherlands in a post-doctoral capacity or experience at another educational institution

- research, teaching and organizational experience appropriate to career stage

- research accomplishments, as expressed in a list of publications appropriate to career stage

- evidence of successful acquisition of external funding appropriate to career stage.

Junior post-doctoral researchers are especially encouraged to apply.

Conditions of employment

The University of Groningen offers a salary dependent on qualifications and work experience in accordance with the Dutch university system from EUR 3,227 (scale 11, CAO-NU) gross per month up to a maximum of EUR 5,020 (scale 12, CAO-NU) gross per month for a full-time position.

Application Interested candidates should submit a complete application composed of: (i) a letter of motivation, (ii) a complete curriculum vitae, (iii) a list of publications, (iv) a list of five self-selected “best papers”,

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ULyon EvolutionFluctuatingEnvironments

*The lab of “Biometry and Evolutionary Biology” UMR CNRS 5558, (**University of ****Lyon**, France)* offers a permanent position for 2013 : Assistant professor (Maître de conférences) in Modelling approach in Genetics-Ecology *

*Teaching :Mathematics**and statistics applied to biology, animal biology*

The applicant will join the teaching staff of the “Agronomy section” of the Biotechnology Department of the Technology Institute at Lyon 1 University. He or She will teach mathematical functions and data analysis (1st year students). The applicant may also be called upon to teach zoology (anatomy and histology of mammals and insects) and genetics (1st year students). Finally, He or She will participate to the supervision of the numerous tutoring works made by the students of the 2nd year of the Agronomy section (breeding of

animal laboratory models, experimental methodology, reports...) and to the monitoring of the students during their work placement. Beyond teaching, He or She will engage in collective responsibilities of the department and be willing to develop new vocational training.

Research: Evolution in fluctuating environments: modelling approach in Genetics-Ecology

Understanding fast evolution of traits (morphological, behaviour, life histories) and population evolvability in fluctuating environments needs on taking into account genetic architecture of these traits in complement to phenotypic approach. The aim is to build models (genetic-ecology) to study how the genetic architecture influences trait evolution. Temporal and spatial components of the environment will be considered. The candidate will be theoretician and modeller with good experiment at the interface between theory, modelling and biological data. He/she will use the data basis (insects and vertebrates) of the evolutionary ecology department in order to build realistic models. He/she will interact greatly with the field ecologists. The candidate must be very familiar with the concepts and modelling/programming tools in evolutionary ecology and, quantitative and population genetic and be able to connect teaching (including animal and vegetal biology) and research activities.

Contact for research: Mouchiroud Dominique, Head of the LBBE, dominique.mouchiroud@univ-lyon1.fr

Contact for teaching : Pascal Michalon, Head of Biology Departement, pascal.michalon@univ-lyon1.fr

“frederic.menu” <frederic.menu@univ-lyon1.fr>

UMissouri Anatomy

Hello,

Although an anatomy position, it is among evolution-oriented anatomists, and that is the kind of applicant we are looking for.

Thanks, Kevin Middleton middletonk@missouri.edu

The Integrative Anatomy group (<http://anatomy.missouri.edu/>) in the University of Missouri School of Medicine is currently searching for a faculty member to assist with anatomy education for undergraduates. Although this position is non-tenure track we expect it to be as permanent as such positions can be. Integrative Anatomy is active research and

teaching group with 5 faculty, 2 post-doctoral lecturers, and 6 doctoral students. We have a great group of evolutionary morphologists here, and Columbia a great place to live.

The official description is posted below. A direct link is <http://goo.gl/GYwsQ> Feel free to forward this announcement to any potentially interested colleagues. I'd be happy to answer any questions. If you are planning to apply, please email me as soon as possible in addition to submitting application materials online.

Kevin Middleton middletonk@missouri.edu

The Department of Pathology and Anatomical Sciences at the University of Missouri School of Medicine is seeking a non-tenure track Assistant Teaching Professor of anatomy beginning June 2013. The primary responsibility of this position is the development and implementation of technology-enhanced anatomy education for pre-health professional undergraduate students. This position will involve the design the delivery of online courses in collaboration with the anatomy teaching team. Preference will be given to individuals with experience in teaching human anatomy. Applicants should be committed to excellence in teaching and scholarship. The position requires a PhD, MD or equivalent in professional training and expertise. Application will be accepted until the position is filled.

Interested individuals should submit a letter of interest, a current CV, and a list of at least three references to the MU web site at hrs.missouri.edu/find-a-job/academic/. At the bottom of the webpage, select prospective employees and search for pathology to reach the link for the position. The Job ID number is 9452.

The University of Missouri is an equal opportunity employer/affirmative action and welcomes applications from members of underrepresented groups. For ADA accommodations, please contact our ADA coordinator at 573-884-7278 (V/TTY).

Kevin Middleton <middletonk@missouri.edu>

UOxford ResTech InsectEvolution

Laboratory Technician, Department of Zoology, University of Oxford Grade 4: £20,172 - £23,352 with a discretionary range to £25,504 p.a. Fixed-term contract for 3 years Deadline for applications: 12 noon GMT, 18 February, 2013.

Applications are invited for a research technician position with Professor Charles Godfray in the Department of Zoology of the University of Oxford. We are a small research group using aphids to answer broad questions in ecology and evolution.

We seek a research technician to work on a NERC-funded project on the evolutionary ecology of insect-bacterial interactions. Specifically, the project involves studies of the facultative endosymbionts of aphids and their role in resistance to fungal pathogens. The work will involve laboratory and field experiments, and comparative molecular studies to look for the underlying mechanism(s) involved.

The technician will support the project and contribute to the day-to-day running of the research laboratory. Duties will include rearing aphids and culturing their fungal pathogens, helping carry out laboratory and UK-based field experiments, and routine molecular biological procedures (e.g. DNA extraction, PCR).

The successful candidate will have relevant laboratory experience and be able to work as an enthusiastic member of a team. You will have good written and oral communication skills, as well good planning and organisational abilities. A qualification in a relevant discipline as well as experience in working as a technician in a project requiring related skills are desirable.

Informal enquiries can be made through charles.godfray@zoo.ox.ac.uk. Further details of the job can be obtained by searching for the job ID 106453 at <https://www.recruit.ox.ac.uk>.

ailsa.mclean@gmail.com

UTubingen PlantEvoEcol

The Faculty of Science at the University of Tübingen, Germany, invites applications for a

RESEARCH ASSOCIATE (= Assistant Professor/Senior Postdoc/Group Leader)

in the newly established Plant Evolutionary Ecology group (led by Oliver Bossdorf) at the Institute of Evolution & Ecology. We are looking for an enthusiastic researcher with a strong publication record, who is keen to develop an own research profile but enjoys collaborating with others.

The current research of our group includes projects on biological invasions, plant evolutionary responses to

global change, and ecological epigenetics. For the vacant position, we are particularly interested in one of the following: (1) a molecular ecologist who is interested in working together with experimental ecologists to study intraspecific variation, rapid adaptation, or genetic diversity, or (2) an experimental plant ecologist who likes to combine ecological and evolutionary questions.

The Plant Evolutionary Ecology group has a good infrastructure for experimental and molecular work (labs, growth chambers, greenhouse, garden, molecular lab, technical staff). The University of Tübingen is one of the oldest and most famous universities in Germany. Tübingen is a beautiful university town with a high quality of life.

The position is initially for three years, with the possibility of extension for another three years. Salary is at the scale 13 TV-L. The starting date is negotiable, ideally in August 2013. Candidates must have a PhD and be willing to contribute to teaching, supervise students, and apply for external funding.

If you are interested in this position, please send your full CV (incl. at least two references) and a short description of your research interests as a single PDF to bossdorf@ips.unibe.ch. Application deadline is 28 February 2013. 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.

Dr. Oliver Bossdorf Institute of Plant Sciences University of Bern Altenbergrain 21 CH-3013 Bern Switzerland Phone: +41 31 631 4926 bossdorf@ips.unibe.ch <http://www.botany.unibe.ch/-planteco/> <https://sites.google.com/site/obossdorf/bossdorf@ips.unibe.ch>

UWyoming EducationOutreachCoordinator

Position Advertisement: Education/Outreach Coordinator

The Education/Outreach Coordinator is an academic staff position of the University of Wyoming's Biodiversity Institute (BI). The position will work with other BI staff in pursuit of its mission. The Education/Outreach Coordinator will coordinate the Institute's education

resources, manage the education components of the BI's website, and provide education outreach to Wyoming's teachers and schools.

Institute/University Description: In 2012, the University of Wyoming created the BI to encourage wise and informed decisions concerning the conservation of biological diversity. To meet this challenge a central component of the BI's mission is to promote, develop and evaluate biodiversity education in the K-12 schools of Wyoming. More information is available at www.uwyo.edu/biodiversity. The University of Wyoming provides high quality undergraduate and graduate programs to 13,000 students from all 50 states and more than 90 countries. Established in 1886, UW is a nationally recognized research institution with accomplished faculty and world-class facilities. The University of Wyoming is nestled between two mountain ranges in southeastern Wyoming. It offers varied academic and lifestyle opportunities including outstanding outdoor recreation, and year-round cultural activities. The University of Wyoming is located in Laramie, a town of about 30,000 with a unique blend of sophistication and western hospitality

Qualifications: Required

- Masters degree in one of the following: Biological Sciences, Environmental Education, Science Education, Education, Curriculum & Instruction or a closely related field.
- Experience in at least one of the following: development and manipulation of curriculum resources (including digital resources and field and laboratory experiences), development and administration of educational websites, and development of print education materials.
- Excellent oral, written, and interpersonal communication skills.
- Experience working in an educational setting - schools, informal education, etc.
- Experience working both in front of or with people and behind a computer.
- Ability to work alone and as part of a team.

Highly Desired - Background/experience in communication, biodiversity, sustainability or science education, and technology integration. - Willingness to learn additional computer programs and skills as needed. - Leadership ability and experience - leading project teams, creating programs, committee leadership. - Experience providing support to classroom teachers. - Creative and resourceful. - Passion for and dedication to biodiversity education.

Terms of Employment: Full-time, academic professional, year-round (12 month) with reappointment based on satisfactory evaluation. Salary is commensurate with experience but starts at \$50,000. Benefits include University of Wyoming's insurance, retirement,

vacation, holidays, and sick leave. Appointment Date: May 1, 2013 (or as soon as possible thereafter).

Application Procedure: Send pdf files of letter of interest, resume or curriculum vitae, and at least three letters of reference to Brenna Marsicek, Biodiversity Institute, brenna.marsicek@uwyo.edu by 11:59 pm MST on March 22, 2013.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com 307.766.6169

mcarling@uwyo.edu

UWyoming EducationOutreachCoordinator 2

Apologies for my first attempt to send this.

POSITION ANNOUNCEMENT: EDUCATION/OUTREACH COORDINATOR The Education/Outreach Coordinator is an academic staff position of the University of Wyoming's Biodiversity Institute (BI). The position will work with other BI staff in pursuit to its mission. The Education/Outreach Coordinator will coordinate the Institute's education resources, manage the education components of the BI's website and provide education outreach to Wyoming's teachers and schools.

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HIGHLY DESIRED - Background/experience in communication, biodiversity, sustainability or science education, and technology integration. - Willingness to learn additional computer programs and skills as needed. - Leadership ability and experience - leading project teams, creating programs, committee leadership. - Experience providing support to classroom teachers. - Creative and resourceful. - Passion for and dedication to biodiversity education.

Terms of Employment: Full-time, academic professional, year-round (12 month) with reappointment based on satisfactory evaluation. Salary is commensurate with experience but starts at \$50,000. Benefits include University of Wyoming insurance, retirement, vacation, holidays and sick leave. Appointment date: 1 May 2013 (or as soon as possible thereafter).

Application Procedure: Send pdfs of letter of interest, resume or curriculum vitae, as at least three letters of reference to Brenna Marsicek, Biodiversity Institute, brenna.marsicek@uwoyo.edu by 11:59pm MST on 22 March 2013.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com 307.766.6169

mcarling@uwoyo.edu

WTCHG UOxford StatsGenomics

Two positions are available:

Research Associate in Statistical Genetics Wellcome Trust Centre for Human Genetics, Roosevelt Drive,

Headington, Oxford OX3 7BN University of Oxford Grade 7: £29,541 - £36,298 with a discretionary range to £39,649 p.a.

Project: Statistical methods for large-scale genomic inference across populations and phenotypes.

Applications are invited for a Research Associate in Statistical Genetics to join the group of Dr Chris Spencer to participate in the development and application of methods for the analysis of large-scale human genomics datasets. The post is an excellent opportunity for statistical geneticists, or individuals with a strong quantitative background, who wish to move into this area.

The research will have a particular emphasis on combining data from different populations or phenotypes. The successful applicant will have the opportunity to work on collaborations investigating auto-immune and infectious disease. Currently much of our work is within the MalariaGEN consortium (www.malariagen.net). We also work closely with other groups in the Wellcome Trust Centre for Human Genetics, in particular Professors McVean, Donnelly and Kwiatkowski, on problems in population and disease genetics.

You will have a PhD which has a strong mathematical, statistical or bioinformatics component ideally, but not essentially, with experience of modern approaches to genetic analysis. You will need to have some computer programming experience ideally with the program R and a low level language. You should be able to work alone and collaboratively, and be able to digest and communicate scientific ideas effectively. The successful applicant should enjoy visualising data, problem solving and drawing inferences from complex data.

The position is available for up to three years in the first instance and is funded by the Wellcome Trust.

Only applications received before 12:00, midday on Wednesday 27 February 2013 can be considered. Applications can be made via: https://www.recruit.ox.ac.uk/pls/hrsliverecruit/-erq_jobspec_version_4.jobspec?p_id=106373 —

Senior Research Associate in Statistical Genomics Wellcome Trust Centre for Human Genetics, Roosevelt Drive, Headington, Oxford OX3 7BN University of Oxford Grade 8: £37,382 - £44,607 with a discretionary range to £48,729 p.a.

Project: Population and disease genetics in large-scale studies of Malaria susceptibility.

Applications are invited for a Senior Research Associate in Statistical Genomics to work within MalariaGEN (www.malariagen.net), a data-sharing community

working to develop new tools to control malaria by integrating epidemiology with genome science. The post provides an exciting opportunity to use large scale genetics data to address important questions in evolution and disease biology that can improve health and health care.

You will join the analysis team which is jointly led by Dominic Kwiatkowski, Chris Spencer and Gil McVean. You will focus on developing and implementing analytical methods in population genomics. This will involve working with the group leader to define, plan and implement one or more specific analytical projects that will make a significant contribution to MalariaGEN's scientific objectives. You will interact closely with other team members at the Wellcome Trust Centre for Human Genetics, and also with colleagues based at the Sanger Institute and the Mahidol-Oxford Research Unit in Bangkok.

You should have a minimum of a PhD in statistics, population genetics or other relevant area of quantitative analysis and be able to execute complex analytical projects involving multiple partners. In doing so you will lead scientific projects as part of the consortium's aims. You will also have strong skills in computer programming for advanced statistical analysis and large-scale data management.

The position is available for up to three years in the first instance and is funded by the Wellcome Trust.

Only applications received before 12:00, midday on Wednesday 27 February 2013 can be considered. Applications can be made via: https://www.recruit.ox.ac.uk/pls/hrsliverecruit/-erq_jobspec_version_4.jobspec?p_id=106372 —

Please visit www.well.ox.ac.uk/spencer-group for more details. Informal enquires can be sent to chris.spencer@well.ox.ac.uk.

spencer@well.ox.ac.uk

WageningenU ComputationalSystemsBiol

Number 3: AFSG- SSB-0014 Assistant Professor in Computational Systems Biology (Tenure Track) Systems and Synthetic Biology WU 1 fte

We are looking for In a challenging career trajectory you are, as Assistant Professor in Computational Systems

Biology, responsible for the organisation, implementation and coordination of new research activities in this field, as well as building up a leading international position. In this position you will also be motivating and teaching students and develop new courses. Training and coaching is provided for the Tenure Track position to accomplish all this.

We ask As Assistant Professor you are an ambitious and enthusiastic scientist, and a team player, devoted to research and education in Computational Systems & Synthetic Biology.

You also have: - a PhD in Physics, Engineering, Computational Systems Biology, Bioinformatics or related; - several years of postdoctoral experience at high level; - an excellent track record according to the Tenure Track systems in place at the WUR; - knowledge in pattern recognition, machine learning, multivariate statistics and large scale data mining. Expertise in a broad range of approaches (both top-down and bottom up) for modeling biological systems is a substantial plus; - experience with supervision of PhD projects; - experience with management of multi-team projects; - proven ability in acquiring research funding; - excellent communication skills; - excellent didactic qualities and enthusiasm for teaching and working with students.

We offer We offer you as, a talented scientist, a challenging career trajectory within a Tenure Track system. From the position of Assistant Professor you can grow into a Professor holding a Personal Chair. Training and coaching are provided and interdisciplinary (international) cooperation is strongly stimulated. You will also be given the chance to build up your own research line. You will be part of the Laboratory of Systems and Synthetic Biology and embedded in the newly created Wageningen Centre for Systems Biology (www.wageningenur.nl/systemsbiology), in which you will participate also with executive, managerial functions. As all the other scientific staff members you are expected to attract funding and to participate in the supportive activities of the Laboratory.

We offer you a temporary contract with the possibility of extension, formally, for 38 hours per week. Gross Monthly Salary: from based on full time employment and dependent on expertise and experience. Information Tenure track Wageningen UR The Wageningen University offers talented young scientists a challenging new career trajectory, the Tenure track. By introducing this trajectory, our aim is to attract top talent and to stimulate excellence.

>From the position of Assistant Professor, candidates can grow into a Professor holding a personal chair in a maximum period of twelve years. In addition, they

will be given the chance to build up their own research line. It goes without saying that candidates will be intensively supervised and coached during the trajectory. Moreover, this transparent career path can lead to a permanent employment contract.

As we will only be selecting outstanding candidates to take part in Tenure Track, this will be a good stepping stone to a further career within Wageningen UR or elsewhere.

We offer a temporary contract with the possibility of extension, for 38 hours per week. Gross salary: starts from 3195 euro (Scale 11), based on a full time employment and dependent on expertise and experience.

For more information about Tenure Track within Wageningen UR look at <http://www.wur.nl/UK/work>. Additional information For more information about this position please contact Prof. dr. Ir. Vitor A.P. Martins dos Santos, Chair, tel. +31- 317-482865, vitor.mds@wur.nl.

For information about the contractual aspects please contact Mrs. J.E.C. van Meurs, HRM-advisor, tel. +31- 317-480101, joes.vanmeurs@wur.nl.

Interested? You can apply online at www.wageningenur.nl/en/Jobs.htm until 31th of January 2013.

We are Laboratory of Systems and Synthetic Biology The recently created Laboratory of Systems & Synthetic Biology (www.wageningenur.nl/ssb) addresses in an integrated way critical issues and novel biotechnological applications in the areas of Health & Food, BioBased Products and Environment.

We carry out our research activities broadly along three major lines: - Computational Systems Biology - Microbial Systems Biology - Synthetic Biology

Our mission is to contribute to the elucidation (from a Systems Biology perspective) of the mechanisms underlying basic cellular processes, evolution and interactions among microbes and between microbes and

— / —

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

ZFMK UBonn EnvironmentalGenomics

The Alexander Koenig Research Institute and Museum of Zoology (ZFMK) has recently established a new Center of Molecular Biodiversity Research. The ZFMK is a Leibniz-Institution cooperating with the University of Bonn, funded by the Federal State of NRW and the federal government. The Center of Molecular Biodiversity Research has been established to foster molecular research and infrastructure, spanning a wide range from genomics and speciation genetic research to developing high-throughput barcoding applications, and has a strong focus on bioinformatics and biobanking.

The ZFMK invites applications for a tenure track position of an

ASSISTANT PROFESSOR IN ENVIRONMENTAL GENOMICS (E13, TVL-13)

as member of the Center of Molecular Biodiversity Research.

Candidates should have a strong background in three or more of the following fields of research:

* metagenomics and DNA barcoding * molecular biology (e.g., enrichment techniques, microarrays) * application of NGS technologies * analysis of NGS data (e.g., assembly) * a scripting language * ecology and evolutionary biology

The candidate is expected to establish an internationally competitive research group dedicated to collective species identification / barcoding from mixed/environmental samples using NGS, to set up an effective analysis pipeline for this purpose, to successfully apply for research grants, to publish in internationally recognized journals, and to tightly collaborate with other research groups at the Center for Molecular Biodiversity Research (zmb) at the Zoologisches Forschungsmuseum Alexander Koenig in Bonn (Germany). The Museum Koenig spearheads the German Barcode of Life campaign and is currently preparing several metagenomic projects in which the applicant could adopt a leading role.

We offer a highly motivating environment, flexible working hours, and ability to work independently. Salary and benefits are according to a public service position in Germany (E13, TVL-13). The ZFMK advocates gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference. The con-

tract will start as soon as possible and will initially be restricted to five years. An extension will be subject to personal performance.

Please send your application by e-mail attachment, including a detailed CV, a research plan, a list of successful grant applications, names of three potential referees and five publications, to Prof. Dr. Bernhard Misof, Head of the Center of Molecular Biodiversity Research (e-mail: b.misof.zfmk@uni-bonn.de).

The position is open until a suitable candidate has been

found.

–

Jonas Astrin Molekulare Taxonomie & Biobank Tel: +49 (0)228 9122-357 Email: J.Astrin.ZFMK@uni-bonn.de <http://biobank.zfmk.de> <http://bolgermany.de>
Zoologisches Forschungsmuseum Alexander Koenig - Leibniz Institut für Biodiversität der Tiere - Adenauerallee 160, 53113 Bonn, Germany www.zfmk.de Stiftung des öffentlichen Rechts; Direktor: Prof. J. W. Wägele
Sitz: Bonn

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ASN CallForWorkshopProposals

Call for Proposals for Workshops to be Supported by the American Society of Naturalists

The Workshop Committee of the American Society of Naturalists invites nominations for ASN sponsorship of workshops in evolutionary biology. In particular, the

ASN is interested in sponsoring workshops for graduate students that provide training in modeling, data analysis, or other professional skills. ASN anticipates supporting 1-4 workshops per year at a rate of \$1000-2000 each, which can be used towards workshop expenses or deferment of student fees. The application should include descriptions of: the workshop (including tangible benefits to participants), venue, procedures for selecting participants, anticipated number of participants, and a budget that includes plans for use of ASN funds. Applications should be submitted as a pdf on or before

1 March 2013 to arnolds@science.oregonstate.edu and should carry the label 'ASN Workshop Sponsorship' in the subject line. Inquiries should be directed to Stevan J. Arnold at the same address.

Thanks for your help Steve

Stevan J Arnold Department of Zoology Oregon State University Corvallis, OR <http://people.oregonstate.edu/~arnoldst/> Stevan J Arnold <arnoldst@onid.orst.edu>

Alberta GroundSquirrelVolunteer

Field Assistants Required-Columbian ground squirrels
Sheep River Provincial Park, Alberta, Canada

We are looking for up to 6 volunteers to assist with fieldwork for the period of April 10 to Aug 31, 2013. The project investigates the evolutionary and behavioural ecology of Columbian ground squirrels. As a member of the study, assistants will be involved with monitoring the phenology (when animals emerge from hibernation), reproduction and survival of individuals. Fieldwork will involve live-trapping and handling of animals, radio-telemetry, behavioural observation and assistance with the measurement of physiological (metabolism) traits on free-ranging animals. This is an excellent opportunity to gain experience working with a collaborative research team on a long-term study of a wild mammal.

All fieldwork is carried out in the spectacular Rocky Mountains of southwestern Alberta, Canada, home to some of the most majestic wildlife in North America. We will be staying at the University of Calgary's R.B. Miller research station in Sheep River Provincial Park, Alberta (<http://bgs.ucalgary.ca/facilities/-facilities>). You will interact with other researchers working with ground squirrels on a diversity of projects in behavioural and population ecology. Additionally, the field station is home to a number of other researchers working on a variety of projects, ranging from insects to large mammals. Food, and accommodation are provided. Volunteers are required to provide for their own travel to either Edmonton or Calgary, Alberta. Travel between the field station and one of these centres is provided.

Training will be provided and no experience is necessary, but candidates should have an interest in a number of the following (the more the better!): ecology,

evolutionary biology, wildlife, field biology, and animal behaviour. Periods of time will be spent camping and, as such, successful applicants need to enjoy the outdoors, be up-beat, positive, responsible and work well as a member of a team.

If you wish to apply for one of these posts then please send a CV with a cover letter and contact details for three references (with e-mail addresses), by email to Jeff Lane (contact info below), by Feb 28, 2013.

Contact:

Dr. Jeff Lane

Department of Biological Sciences University of Alberta
u.columbianus@hotmail.com

jelane@ualberta.ca

BioMedResIntl SpecialIssue

Dear colleagues,

Please apologies for possible cross-posting. We would like you to consider this short reminder. The organizing committee of the conference "Molecular Phylogenetics" (www.en.molphyl.ru) jointly with the Hindawi Publishing Corporation launched the special issue of the journal BioMed Research International.

The focus of the special issue is "Current Advances in Molecular Phylogenetics". Potential topics include: - Evolutionary genomics - Molecular phylogenetics and systematics - Development and phylogeny (evo-devo) - Models, tools, and algorithms for phylogenetic reconstruction and molecular dating - Applied phylogenetics: genotyping and barcoding of biological objects, molecular anthropology, molecular epidemiology, and forensic science - Molecular ecology - Molecular biodiversity and biogeography

The journal publishes research and review articles with no page limit. It is an Open Access journal, and article processing charges apply to accepted manuscripts (www.hindawi.com/journals/bmri/apc). The journal is indexed by all major abstracting and citation systems, the Impact-Factor is 2.436.

All submissions go through the peer-review process. Although the Special Issue is edited mainly by members of the MolPhy organizing committee, previous participation in MolPhy conferences is not required to submit a manuscript.

The special issue deadlines:

Manuscript Due: 1 March 2013 First Round of Reviews:
24 May 2013 Publication Date: 19 July 2013

Detailed information on the special issue is available online at www.hindawi.com/journals/bmri/si/585782/-cfp. Information on the journal BioMed Research International is available online at www.hindawi.com/journals/bmri. We welcome your submissions.

With best regards, the MolPhy Committee

roussine@yandex.ru roussine@yandex.ru

Classroom OrganismalData

The Animal Diversity Web (animaldiversity.org) invites you to take part in research to understand the impact of active student inquiry in organismal biology courses, including Introductory Biology, Evolution, Ecology, Conservation Biology, Mammalogy, Ornithology, and others.

To participate, you must use an existing ADW-Quaardvark inquiry activity in your course before May 30, 2013, including completing our assessment instruments. Go to <https://animaldiversity.ummz.umich.edu/quaardvark/> to view sample activities. We have data for 40% of mammal species!

In return, you will receive a \$500 stipend and become involved in an exciting project that is in line with AAAS/NSF Vision and Change recommendations for improving undergraduate biology education.

Contact adw_staff@umich.edu to join.

The Animal Diversity Web is a large online database of organismal information with thousands of species accounts and highly structured data that makes it possible for students to ask questions and explore biological patterns for themselves. This research project is supported by NSF Transforming Undergraduate Education in Sciences funding and all research activities are covered by a University of Michigan IRB agreement.

Thank you

– Tanya Dewey Animal Diversity Web animaldiversity.org

Tanya Dewey <tdewey@umich.edu>

ESEB outreach 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.

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 Le Biophore University of Lausanne CH-1015 Lausanne Switzerland Phone: +41 (0)21 692 4207 Email:office@eseb.org

European Society for Evolutionary Biology www.eseb.org office@eseb.org

Evolution video

Hi all,

I use this list just to mention on a new video of scientific dissemination on evolutionary ecology that we have developed. This time we talk about a topic that attracted the attention of Charles Darwin himself.

Enjoy it!

<https://vimeo.com/59700931> Sorry for the inconvenience those who are not interested,

Luis Navarro

Luis Navarro phone 1: (+34) 986 812619 Depto. Biologia Vegetal phone 2: (+34) 647 343097 Facultad de Ciencias fax: (+34) 986 812556 As Lagoas-Marcosende email: lnavarro@uvigo.es Uni-

versidad de Vigo <http://webs.uvigo.es/lnavarro>
 36200-Vigo <http://webs.uvigo.es/plantecology>
 Spain <http://www.divulgare.net/> Luis Navarro
 <lnavarro@uvigo.es>

France VolFieldAssist EvolutionNightingales

Field assistants in Evolutionary Ecology of Nightingales
 We are looking for voluntary field assistants to participate in a research project on communication and behavioural ecology of nightingales (*Luscinia megarhynchos*).

The project is run by the Research Station Petite Camargue Alsacienne, University of Basel (www.camargue.unibas.ch, PD Dr. Valentin Amrhein).

Fieldwork will be done in April and May 2013, at the Research Station Petite Camargue Alsacienne in France, about 10 km north of Basel (Switzerland).

Field assistants will participate in systematic surveys of territory settlement and in playback experiments. Fieldwork will include nocturnal bicycle trips, and field assistants are expected to work on their own at night and in the early morning.

We cannot cover travel expenses, but we offer free accommodation and use of the infrastructure at the research station. Field assistants will receive a compensation of 600 Euros for the field season to cover living expenses. Applicants are expected to stay for the entire field season from the beginning of April until the end of May.

The positions will be filled as soon as possible. Applications should be in English and should include, in one single pdf or word file, a curriculum vitae and a letter of motivation. Please provide names and email addresses of two persons who are willing to write a letter of recommendation, and send applications by email to the following address:

PD Dr. Valentin Amrhein Zoological Institute University of Basel pca.recherche@orange.fr

valentin amrhein <pca.recherche@orange.fr>

GodfreyHewitt HasPassedAway

Dear All, I'm very sad to announce the death of Professor Godfrey M Hewitt, who died peacefully on the 18th Feb 2013.

Godfrey contributed substantially to many fields in evolutionary biology including molecular ecology, phylogeography, hybridization and speciation. He has been a truly great mentor to very many researchers, and continued to be so right up until the end. He was always generous with his time and his legacy will extend beyond his substantial academic publication record.

<http://www.uea.ac.uk/biological-sciences/People/Honorary/Godfrey+Hewitt> http://en.wikipedia.org/wiki/Godfrey_Hewitt Dave

– Dr Dave Lunt School of Biological, Biomedical and Environmental Sciences University of Hull Hull HU6 7RX UK

d.h.lunt@hull.ac.uk +44 (0)1482 465514 <http://www.hull.ac.uk/biosci> <http://davelunt.net>
 D.H.Lunt@hull.ac.uk

Massive open online courses in evolution answers

Hi again evoldir!

Awhile back, I asked evoldir about evolution-related online courses. The following is a list that included the responses. There may be others out there.

I've also learned that the Society for the Study of Evolution's education committee is exploring online educational platforms for a possible consolidated 'course' as an agenda item.

It seems there is a lot of open potential for more open online education and public engagement around evolution! However, it's already clear that specific design considerations have to be taken to broaden engagement among minority and underrepresented learners.

Please do get in touch with me if this is broadening evolution learning online is something you are working on or are interested in pursuing.

Gabriel Harp | gabrielharp@gmail.com | <http://www.genocarta.com> A sample of current evolution-themed Massive Open Online Courses:

Stephen Stearns, EEB, Yale, at Academic Earth <http://www.academicearth.org/courses/evolution-ecology-and-behavior> and also on Udemy <http://www.udemy.com/evolution-ecology-and-behavior-122-with-stephen-c-stearns/> A set of tutorials, more for secondary school <http://virtualurchin.stanford.edu/index.html> Introduction to Genetics and Evolution with Mohamed Noor by Duke on Coursera <https://www.coursera.org/course/geneticsevolution> This Michigan State University MOOC focuses on Foundations of Science, but also includes components on evolution and creationism <http://foundations-of-science.zoology.msu.edu/> Stanford Human Behavioral Biology http://www.youtube.com/watch?v=NNnIGh9g6fA&feature=results_video&playnext=1&list=PL848F2368C90DDC3D Khan Academy has material on Hardy-Weinberg principle <https://www.khanacademy.org/> Rheingold U, Howard Rheingold runs an Introduction to Cooperation Theory <http://socialmediaclassroom.com/host-cooperation4/lockedwiki/main-page> Although unrelated to evolution, I have been especially impressed with Katy Börner's Information Visualization (IV-MOOC) through Indiana University on Google's platform <http://ivmooc.appspot.com/home> Gabriel Harp <gabrielharp@gmail.com>

Mea Species

Dear All,

Does anyone have experience with MeaSpecies? It is a website to connect with donors for species description. As far as I understand, the donors will fund projects and suggest names, but the final decision is up to the scientist. The donors would be acknowledged in publication. I am interested in a discussion of whether it is an accepted way to get funding for biodiversity research. Are there ethical issues to deal with?

I look forward to your thoughts. Cheers, Tiffany

Tiffany M. Doan, Ph. D.

tiffperu@yahoo.com

Mini-ARTS grant

Other: Mini-ARTS grant

The Society of Systematic Biologists (SSB) is pleased to announce the availability of awards for revisionary taxonomy and systematics, modeled after the NSF Dear Colleague Letter: Advancing Revisionary Taxonomy and Systematics (ARTS) recently developed within the Systematics and Biodiversity Science Cluster. We are calling these mini-ARTS grants. These awards are designed to allow SSB members (students, post-docs, and faculty) to spend a summer or semester apprenticed to an expert in a particular taxonomic group or to enhance revisionary taxonomic and systematics research in novel ways. Goals of this award program are to address constraints on our knowledge of undescribed biodiversity, assist in passing on taxonomic expertise before it is lost, increase the number of students with broad training in organismal biology and systematics, and support projects in biodiversity and taxonomy informatics as well as monographic and revisionary taxonomy. Activities can include a trip to the taxonomists laboratory, pay for the taxonomist to visit the applicants laboratory for a period of time, or pay for costs of computer time or development of interactive keys for electronic dissemination of systematics results. Requests for support may be in any amount up to \$3,000. We will fund two or three of these awards this year. Please visit NSF's website <http://www.nsf.gov/pubs/2011/nsf11037/nsf11037.jsp> for more information about their ARTS program.

How to apply V a complete application includes: 1) a brief description of the project, including a separate section justifying the importance of the taxon and the revisionary work; 2) an itemized budget; 3) the applicants CV; and 4) a letter of support from the taxonomic expert or collaborator. If the applicant is a student or post-doc, please also include a reference letter from the advisor. Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: <http://systbio.org/?q=node/6>). The narrative part of the application should be no more than two pages, including the budget, but not including the curriculum vitae and letter(s).

Grant applications should be sent to Sean Brady, Chair of the SSB Awards Committee (bradys@si.edu). E-

mail submissions are required, and applicants should use pdf format for all documents. In the subject line of the email, please indicate the SSB award category as mini-ARTS. All documents, INCLUDING ALL SUPPORTING LETTERS, must be received by March 31, 2013 for consideration.

Please see the SSB website (<http://systbio.org/?q=node/26>) for any updates or additional information about this award.

PROPOSAL SUBMISSION DEADLINE IS MARCH 31, 2013

Sean Brady Research Entomologist Curator of Hymenoptera National Museum of Natural History Smithsonian Institution bradys@si.edu

“Brady, Sean” <BRADYS@si.edu>

NSF-DEB Blog goes live

DEBrief, the new blog from the Division of Environmental Biology at NSF, is now live. It is a trial project aimed at increasing communication and transparency in the DEB community. As the first blog approved by NSF administration, it is on a trial basis, so check it out early.

Find it here:

www.nsfdeb.wordpress.com edb9j@virginia.edu

PLANTS undergrad travel awards

The PLANTS program (funded by the NSF and Botanical Society of America, www.botany.org) encourages the participation of undergraduates from underrepresented groups at the annual meetings of the BSA and affiliated organizations (this year in New Orleans, Louisiana, July 27-31, 2013). These meetings focus on the plant sciences and include areas such as ecology, conservation, systematics, paleobotany, physiology and ethnobotany. The PLANTS program will fund up to 12 undergraduates annually to participate in the meetings and to receive mentoring from both junior (advanced undergraduate and graduate students) and senior mentors (postdocs, faculty, and other professionals) in the

plant sciences.

Applicants will be asked to provide a one page statement of academic interests and career goals and relevance of the BSA meetings to these goals, and one letter of recommendation. The letter of reference should indicate the student's level of interest in the plant sciences and how inclusion of the student will increase diversity of the PLANTS participants. Applications will be accepted Feb 1-Mar 15, 2013 and are available at www.botany.org/awards.grants/-detail/PLANTS.php Applicants must be undergraduates who are US citizens or permanent residents and who are registered or recently graduated (i.e., within the last 12 months) from U.S. institutions, including Puerto Rico, and traveling to the meeting from within the U.S. Students demonstrating a need for funds to attend BSA will be given preference, and will be selected so that the group as a whole will maximize diversity among undergraduates at the meetings.

More information is available from Ann Sakai (aksakai@uci.edu), Ann Hirsch (ahirsch@ucla.edu), or Heather Cacanindin (hcacanindin@botany.org).

aksakai@uci.edu

Phylobases on Biportal

Im a little sorry to bother the community with such a simple request, but I have not been able to work it out by reading papers or contacting people

If I wish to make a simple Bayesian nucleotide phylogeny in Phylobayes on BioPortal where I would like to, say,

- Run the analysis for 1,000,000 generations - Do two separate runs - Run 6 parallel chains - Sample each 3rd tree - Use a CAT-GTR model - Use a burnin of 1000 trees

then can anybody enlighten me/come up with a suggestion as to how I should perform this - or another useful Phylobayes nucleotide analysis - writing on the relevant Biportal page as seen below?

I am aware that Phylobayes differs from MrBayes and runs about 100-1000 cycles each time it saves a tree. One should be able to perform a specific number of cycles using the -x option and write something like this:

```
./pb -d myfile.phy -x 1000000 -cat -gtr outputfile1 &
./pb -d myfile.phy -x 1000000 -cat -gtr outputfile2 &
```

```
./pb -d myfile.phy -x 1000000 -cat -gtr outputfile3 &
./pb -d myfile.phy -x 1000000 -cat -gtr outputfile4 &
./pb -d myfile.phy -x 1000000 -cat -gtr outputfile5 &
./pb -d myfile.phy -x 1000000 -cat -gtr outputfile6 &
```

If anybody could provide help or suggestions, I'd be very thankful,

Kind regards,

Christoffer Bugge Harder,

University of Copenhagen

Christoffer Bugge Harder <cbharder@bio.ku.dk>

Phyloseminar FionaJordan Feb05

Next talk at <http://phyloseminar.org/>: "Testing hypotheses about cultural evolution" Fiona Jordan (University of Bristol)

Anthropologists had a name for the non-independence-of-species-problem way back in the 1880s. Solving "Galton's Problem", and the promise of comparative methods for testing hypotheses about cultural adaptation and correlated evolution was a major catalyst for the field of cultural phylogenetics. In this talk I will show how linguistic, cultural, and archaeological data is used in comparative phylogenetic analyses. The "treasure trove of anthropology" - our vast ethnographic record of cultures - is now being put to good use answering questions about cross-cultural similarities and differences in human social and cultural norms in a rigorous evolutionary framework.

West Coast USA: 09:00 (09:00 AM) on Tuesday, February 05
 East Coast USA: 12:00 (12:00 PM) on Tuesday, February 05
 UK: 17:00 (05:00 PM) on Tuesday, February 05
 France: 18:00 (06:00 PM) on Tuesday, February 05
 Japan: 02:00 (02:00 AM) on Wednesday, February 06
 New Zealand: 06:00 (06:00 AM) on Wednesday, February 06

Note that despite the transition to the SeeVogh system please continue to use the system at <http://evo.caltech.edu/evoGate/> - Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center <http://matsen.fhcrc.org/> ematsen@gmail.com

PolyandryRevolution

Royal Society Publishing has just published The polyandry revolution, compiled and edited by Tommaso Pizzari and Nina Wedell. This content can be accessed at: <http://bit.ly/Q7doj3> A print version is also available at the special price of £35.00. You can order online via the above web page (enter special code TB 1613 when prompted) or, alternatively, you can contact debbie.vaughan@royalsociety.org

Felicity Davie Royal Society Publishing T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG royalsocietypublishing.org

Registered Charity No 207043

felicity.davie@royalsociety.org

SSB ErnstMayrAward

Society of Systematic Biologists Ernst Mayr Award (Graduate Student Award)

The Ernst Mayr Award is given to the presenter of the outstanding student talk in the field of systematics at the annual meetings of the Society of Systematic Biologists (SSB). This is SSB's premier award, and is judged by the quality and creativity of the research completed over the course of the student's PhD program. The award consists of \$1000, a certificate of distinction, and a two-year subscription to the journal Systematic Biology.

Eligibility: Members of the Society who are advanced PhD students or have completed their Ph.D. within the last 15 months are eligible. Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to be considered (to join go to: <http://systbio.org/?q=node/6>). Previous Mayr award winners are not eligible.

Application Procedure: 1. To be considered for this award, you will need to submit a 400-word abstract of your talk to the Evolution 2013 Snowbird meeting website (<http://www.evolutionmeeting.org/>) at the time of

registration. Instructions for registering as a potential Mayr award contender will be given on the meeting website. 2. Abstracts should clearly indicate methods used, conclusions, and the relevance to systematics. Presentations focusing on other areas of biology (ecology, behavior, genetics, populations or molecular biology, etc.) that lack a strong systematics emphasis are not eligible. 3. Applications for this award will be accepted only until the end of early registration (April 19, 2012). 4. At the closing of early registration, a subset of applicants will be selected by the SSB Awards Committee to present their talks in the Mayr symposium during the meeting. All applicants will be notified about selection decisions approximately May 15.

Judging: Based on submitted abstracts, the Mayr Awards Committee (appointed by the Awards Chair, Sean Brady) will select a maximum of 16 applicants for inclusion in the Mayr Award symposium.

The Mayr symposium will be held at a single venue as a continuous session. Talks will be judged on creativity, depth and excellence of research, and on quality of presentation. Competitive students are expected to be in the final stages of their doctoral program, presenting results of a major body of work.

Co-Authors: The talk may be co-authored. It is understood that the ideas, data and conclusions presented are primarily and substantially the work of the student presenter, and the intention is that the student presenter will be senior author on the published version of the paper.

Notification of Winner: The winner of the award will be announced at the SSB business meeting in Snowbird and again during the banquet awards ceremony (complimentary ticket provided) at the conclusion of the Evolution Meetings, whereupon the winner will be given an award certificate. An announcement of the winner will be published in *Systematic Biology* and placed on the SSB website (see last year's winner at <http://systbiol.org/>).

Please see the SSB website (<http://systbio.org/?q=node/10>) for additional information or updates on this award.

SUBMISSION DEADLINE IS APRIL 19, 2013

Sean Brady Research Entomologist Curator of Hymenoptera National Museum of Natural History Smithsonian Institution bradys@si.edu

"Brady, Sean" <BRADYS@si.edu>

SSB GradStd ResearchAward

Other: Society of Systematic Biology Graduate Student Research Award

The Society of Systematic Biologists (SSB) announces the 2013 annual Graduate Student Research Award competition. The purpose of these awards is to assist students in the initiation (FIRST TWO YEARS) of their systematics projects and in the collection of preliminary data to pursue additional sources of support (e.g., Doctoral Dissertation Improvement Grants from the National Science Foundation) or to enhance dissertation research (e.g., by visiting additional field collection sites or museums). Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: <http://systbio.org/?q=node/6>). Previous awardees may not re-apply, but previous applicants who were not selected for funding are encouraged to re-apply. Awards range between \$1,200 - \$2000 and approximately 10V15 awards will be made.

How to Apply: applicants must submit

1. a curriculum vitae (one page);
2. brief research proposal including objectives, methods, significance, and schedule (max. three single-spaced pages including literature cited and any figures and tables);
3. budget and budget justification (one page);
4. and arrange for two reference letters; one letter must be from the student's current graduate advisor.

All application materials must be in electronic format. Applicants and those writing reference letters are required to use pdf format to minimize difficulties in file transfer. Applicants should send all materials (except reference letters) in a SINGLE pdf file. Letters of reference should be sent separately by the referees in pdf format or in the text of an e-mail; please include the FULL NAME OF APPLICANT in reference letters.

Please email all application materials and queries to Sean Brady, Chair of the SSB Awards Committee at bradys@si.edu. IN THE SUBJECT LINE OF THE E-MAIL, PLEASE INDICATE Research FOLLOWED BY FIRST INITIAL AND LAST NAME.

To be considered for this year's award, application materials, INCLUDING letters of recommendation, must be received electronically no later than March 31, 2013.

Please see the SSB website (<http://systbio.org/?q=node/22>) for additional details of this award. Questions via email may be addressed to Sean Brady (bradys@si.edu).

PROPOSAL SUBMISSION DEADLINE IS MARCH 31, 2013

Sean Brady Research Entomologist Curator of Hymenoptera National Museum of Natural History Smithsonian Institution bradys@si.edu

“Brady, Sean” <BRADYS@si.edu>

SSE Workshop ProfDevelopment

Future and Current faculty interested in evolution education are invited to attend a special workshop being held at the Society for the Study of Evolution annual meeting in Snowbird, Utah.

Avoiding Extinction in the Classroom: A Professional Development Workshop for Undergraduate Educators.

Join us for a day focused on effective methods and tools for teaching evolution. This workshop is designed for future and current faculty and will include information on national movements to improve undergraduate biology education, evolution resources to use in the classroom, information on how students learn evolutionary concepts and more. The workshop includes lunch and teaching materials and is sponsored by the SSE Education Committee, BEACON, and NESCent.

Sign-up for /Avoiding Extinction in the Classroom/ by paying the \$25.00 fee */when/* registering for Evolution 2013: <http://www.evolutionmeeting.org/-Register2013.html> Registration is limited to 30 participants.

For more information contact Kristin Jenkins (kjenkins@nescent.org), Jamie Jensen, (Jamie.jensen@byu.edu) or Louise Mead (lsmead@msu.edu).

– Louise S. Mead, PhD Education Director 567 WILSON RD BPS RM 1441 BEACON Center for the Study of Evolution in Action Michigan State University EAST LANSING, MI. 48824-6457 (517) 884-2560

Louise Mead <lsmead@msu.edu>

ScienceToSociety WebSite

Dear colleague,

We have just launched the new web site Opening Science to Society <https://sites.google.com/site/openingsciencetosociety/> This is a workspace we want to share with all those who believe that data sharing is an important means to advance scientific progress and to open science to society. In this first stage of our initiative, we focus on genetic and anthropological research data. At present, it gives access to: - a brief synopsis of the initiative Opening Science to Society - information about our ongoing activities - a forum for discussion of scientific, educational and ethical aspects - an updated list of articles concerning data sharing - links to scientific and educational resources

We would be very pleased to receive your feedback.

Giovanni Destro Bisol University of Rome La Sapienza
Giovanni Destro Bisol Universita' di Roma La Sapienza
Dip.to di Biologia Ambientale sede di Antropologia P.le A. Moro 5 - 00185 Roma tel 0039 06 49912276 fax 0039 06 49912771

Four stages of acceptance: i) this is worthless nonsense; ii) this is an interesting, but perverse, point of view; iii) this is true, but quite unimportant; iv) I always said so. J.B.S Haldane, *Journal of Genetics* 1963

[giovanni.destrobisol <destrobisol@uniroma1.it>](mailto:giovanni.destrobisol@uniroma1.it)

Sensory EEB

A new book by Martin Stevens on Sensory Ecology, Behaviour, and Evolution, published by Oxford University Press is now out.

<http://ukcatalogue.oup.com/product/9780199601783.do#.URd8uo5y-po> The book provides an introduction to the various key ideas, theories, and examples in sensory ecology, particularly in the context of behaviour and evolution. It describes how sensory systems work, and the links between the senses, signals, behaviour, and evolution and tackles both mechanistic and functional questions. It integrates theoretical and

empirical work across a wide range of animal groups. The book is primarily intended for senior undergraduate and graduate students taking courses or conducting research in sensory ecology/biology, neuroethology, behavioural and evolutionary biology, communication, and signalling. Twitter: @SensoryEcology

Dr Martin Stevens Centre for Ecology & Conservation
University of Exeter Cornwall Campus Penryn, TR10
9EZ. martin.stevens@exeter.ac.uk

www.sensoryecology.com follow us on twitter @sensoryecology

http://biosciences.exeter.ac.uk/cec/staff/index.php?web_id=Martin.Stevens&tab=profile
Martin.Stevens@exeter.ac.uk

SocietyStudyEvolution THHuxleyAward

The SSE Education Committee is pleased to announce the T. H. Huxley award, named in honor of Darwin's very public supporter, which provides funding for an SSE member to present at the National Association of Biology Teachers (<http://www.nabt.org/websites/-institution/index.php?p=3D10>) annual conference. If you have an interesting project or educational activity to share with high school, community college or undergraduate faculty, consider applying for this award. Graduate students and postdoctoral fellows are encouraged to apply.****

This year's conference will be held in Nov 20-23 in Atlanta, GA. The deadline for applying for the Huxley award is March 5. Apply here: ****

*<http://tinyurl.com/bd3jz2p>***** ** **

Sincerely,****

Louise Mead and Kristin Jenkins on behalf of the SSE Education Committee****

** **

kristinperth@gmail.com

Software BAPS upgraded

Two upgrades to the Bayesian Analysis of Population Structure (BAPS) software have recently been introduced, which enable (1) spatially explicit modeling of variation in DNA sequences, and (2) hierarchical clustering of DNA sequence data to reveal nested genetic population structures. We provide a direct interface to mapping the results from spatial clustering with Google Maps using the portal <http://www.spatialepidemiology.net/> For details see this new paper: <http://mbe.oxfordjournals.org/content/early/2013/02/13/molbev.mst028.abstract> and the BAPS website: <http://www.helsinki.fi/bsg/software/BAPS/> Jukka Corander Professor, PhD Department of Mathematics and statistics University of Helsinki

jukka.corander@helsinki.fi

Software LositanMcheza

Dear Colleagues,

I would like to inform that the selection detection applications Lositan and Mcheza have a new web address. You can now find them on <http://popgen.net> I would like to apologise to all users for the inconvenience of the address change.

With my best regards, Tiago Antao tiagoantao@gmail.com

– “Liberty for wolves is death to the lambs” - Isaiah Berlin

Tiago Antão <tiagoantao@gmail.com>

Software MetaPIGA v 3

METAPIGA v.3 IS AVAILABLE FOR DOWNLOAD
(with Codon models, GPU computing, and more)

MetaPIGA is a versatile and easy-to-use software that implements robust stochastic heuristics (including the Metapopulation Genetic Algorithm, metaGA) for large phylogeny inference under maximum likelihood. MetaPIGA allows analyses of binary and molecular data sets under multiple substitution models, Gamma rate heterogeneity, and data partitioning. The software is for all types of users as it can be run through an extensive and ergonomic graphical interface or by using batch and console interface on your local machine or on distant servers. MetaPIGA is platform independent, runs on 32- and 64-bits systems, and easily takes advantage of multiprocessor and/or multicore computers.

Here, we release the version 3 of MetaPIGA which, besides bug fixes, includes new functionalities such as: - Maximum likelihood models for codon evolution (Goldman-Yang 1994 and Empirical Models) with access to multiple genetic codes (universal, mitochondria, chloroplaste, etc); - Likelihood computation on CUDA-compatible Nvidia graphic cards (reducing run time by a factor of 10 to 20 for Protein/Codon data); - Ancestral-state reconstruction using empirical Bayesian inference.

Some of the other functionalities implemented in MetaPIGA are: - Simple data quality control (testing for the presence of identical sequences as well as of excessively ambiguous or excessively-divergent sequences); - Automated trimming of poorly aligned regions using the trimAl algorithm; - The Likelihood Ratio Test, the Akaike Information Criterion, and the Bayesian Information Criterion methods for easy selection of the substitution model that best fits your data; - Detailed monitoring of run progress; - Convergence statistics for automatically defining when an analysis is complete; - Ancestral-state reconstruction of all nodes in the tree; - Viewing and manipulation of result trees.

MetaPIGA v.3 and its manual can be downloaded from the new website at www.metapiga.org. Don't hesitate to contact us (Dorde.Grbic@unige.ch or Michel.Milinkovitch@unige.ch) for additional questions, assistance, or bug reports.

Laboratory of Artificial & Natural Evolution (LANE) www.lanevol.org Dept of Genetics & Evolution University of Geneva

Science III, quai Ernest Ansermet 30 1211 Geneva, Switzerland

Dorde Grbic <Dorde.Grbic@unige.ch>

SouthTexas Spea bombifrons TissuesSought

SOUTH TEXAS SPEA BOMBIFRONS TISSUE SOUGHT

I am an undergraduate student at Lehigh University working on an independent research project. I am studying a disjunct population of Plains spadefoot toads (*Spea bombifrons*) found in South Texas. I am studying genetic divergence between this population and populations from the remainder of the range. I have access to tissue samples from many locations except for this southern Texas region. Most museum samples I have found are in formalin, which makes DNA work more difficult. I would appreciate hearing from anyone who would be willing to share tissue samples of *S. bombifrons* collected from any of the following counties: Aransas, Bee, Brooks, Cameron, Dimmit, Duval, Goliad, Hidalgo, Jim Hogg, Jim Wells, Kenedy, Kleberg, La Salle, Live Oak, McMullen, Nueces, Refugio, San Patricio, Starr, Webb, Willacy, Zapata.

Any help will be greatly appreciated!

Please contact me at:

rfs214@lehigh.edu

Thank you in advance for your help. Rebecca Silverman

amr511@lehigh.edu

StructuralVariation Issue

Structural Variations in Genomes: Ecological and Evolutionary Implications

Call for papers in Frontiers in Genetics Research Topic http://www.frontiersin.org/-Evolutionary_and_Population_Genetics/-researchtopics/Structural_Variations_in_Genom/1412

In this research topic we would like to bring together articles that - describe bioinformatics and statistical solutions for detecting, genotyping and analyzing structural variations on a genome scale - focus on the impact of structural variation on phenotypic variation,

especially in the context of ecology and adaptation - utilize comparative molecular and genomic approaches to improve our understanding of structural variation formation, frequency and maintenance across populations

The idea is to create an organized, comprehensive collection of several contributions, as well as a forum for discussion and debate. Contributions can be articles describing -original research -methods -hypothesis & theory -opinions -reviews

Genome re-sequencing projects have revealed substantial amounts of genetic variation between individuals extending beyond single nucleotide polymorphisms (SNPs) and short indels. Structural variants (SVs) such as deletions, insertions, duplications, inversions and translocations litter genomes and are often associated with gene expression changes and severe phenotypes (ie. genetic diseases in humans). Recent studies on the functional aspects of different types of SVs have unveiled several cases of adaptive evolution. For example, inversions have been associated with ecological adaptations and may facilitate speciation. Due to their prevalent nature, SVs arguably have a large impact on genome evolution and should not be neglected when studying the genetics of adaptation and speciation.

SVs were classically defined as chromosomal rearrangements larger than 1kb, but due to a higher resolution of new detection methods, smaller variants (between 50 and 1000 base pairs) can now be accurately assessed. Besides various methods of detection in next generation sequencing data (paired end mapping, split reads, and depth of coverage), array-based approaches have proven to be particularly useful for detecting copy number variations (CNVs). These technologies have enabled researchers to catalog a wide spectrum of SVs in many organisms and infer the effects of selection shaping their evolutionary trajectories.

To gain further insights into the ecological and evolutionary implications of genomic SVs, we stress the need for a more comprehensive account of SVs in a wide range of organisms sampled in their natural habitat. Collecting data on SVs across various species and amongst populations with different divergence times will further add to the data available on the evolutionary turnover rates of SVs. Achieving these goals would greatly benefit from further development of methods for SV detection, particularly for next generation sequencing data (due to its applicability in non-model organisms). An essential step will be to collect more validation data to evaluate and improve methodologies. The determination of exact breakpoints and genotypes, which is currently challenging in diploid organisms, will

allow the use of SV polymorphism data within a population genetic framework. This will aid in disentangling genetic drift and demographic effects from selection - the evolutionary processes shaping the patterns of SV diversity.

Deadline for abstract submission: 01 Jun 2013
Deadline for full article submission: 01 Sep 2013
<http://www.frontiersin.org/submissioninfo> We have created a homepage on the Frontiers website (section 'Frontiers in Evolutionary and Population Genetics') where all articles will appear after peer-review and where participants in the topic will be able to hold relevant discussions: http://www.frontiersin.org/Evolutionary_and_Population_Genetics/researchtopics/Structural_Variations_in_Genom/1412 . Frontiers will also compile an e-book, as soon as all contributing articles are published, that can be used in classes, be sent to foundations that fund your research, to journalists and press agencies, or to any number of other organizations.

Frontiers is a Swiss Gold-model open-access publisher. As such, a manuscript accepted for publication incurs a publishing fee, which varies depending on the article type. Research Topic manuscripts receive a significant discount on publishing fees. Please take a look at this fee table: <http://www.frontiersin.org/about/PublishingFees> .

— / —

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

Trees DepositChronograms

We [1] have been working to create DateLife.org, a web service for dating groups of organisms based on published chronograms. It was partially inspired by the excellent TimeTree.net service [2], but differs in important ways: it can take more than two taxa, it uses uncertainty in the source trees, it can stretch input trees, and it is radically open: you're welcome to fork all the code, download all the trees, scrape data from the website or via the API, etc. It is still being actively tested and developed, so I would not recommend using it for publications yet, but it is available and should reach beta form soon.

However, for it to work we need a set of chronograms. We have scoured TreeBase and Dryad and gotten several, but 1) we may have missed some and 2) most published trees are actually not deposited anywhere. Any trees we receive will be deposited in the PhyloOrchard R package [3], to enable anyone to reuse them (and ideally, they should also go in official repositories like TreeBase or Dryad). We can take single chronograms but also sets such as a set of bootstrap trees run through r8s or a set of post-burnin trees from BEAST: DateLife uses this uncertainty when getting age estimates.

If you have published chronograms we could use, please email them, or a link to where they are available, to bomeara@utk.edu . Please include information about the proper citation (this goes in the PhyloOrchard help files, is included in DateLife, and is added to our DateLife Mendeley group). Also let us know if the units for branch length on the chronograms are anything other than one unit for one million years. The most useful trees for this are ones where terminals are species (rather than families, or different samples all from one species), but all trees are welcome.

Thank you, Brian O'Meara

[1] See current contributors at <http://datelife.org/-faq.php> . We'd love additional help.

[2] Hedges SB, Dudley J & Kumar S (2006) TimeTree: a public knowledge-base of divergence times among organisms. *Bioinformatics* 22:2971-2972

[3] PhyloOrchard is publicly available at https://r-forge.r-project.org/R/?group_id=1217 . The source can be downloaded using subversion, with the command "svn checkout svn:// scm.r-forge.r-project.org/svnroot/phyloorchard/"

omeara.brian@gmail.com

factors that promote adaptation and speciation in novel environments. Specifically, we are studying rapid convergent adaptation and ecological speciation in the dramatic fauna of White Sands, New Mexico. The REU project will focus on understanding the direction, magnitude, and dimensionality of natural selection in White Sands lizards.

The core REU experience will entail fieldwork in the Chihuahuan Desert. The successful applicant must be comfortable living and working in rustic, desert field conditions with a dynamic field team. The REU student may also have an opportunity to conduct follow-up work at UC Berkeley. Fostering diversity is an important objective of this project, and the REU student will also have an opportunity to participate in public outreach activities. The position will begin in mid-May (following the end of the semester) and continue for 10-12 weeks. The REU student will receive a stipend of \$400 per week plus accommodation and travel costs.

The application deadline is March 6th 2013. To apply please send the following application materials to rosenblum@berkeley.edu: 1) a brief (<1 page) statement of interest addressing why you are interested in the position and your previous experience; 2) a resume including your major, current GPA, expected graduation date, and relevant courses you have taken, 3) the names and email addresses of two academic references (no letters needed for initial application). Participants must be U.S. citizens, U.S. nationals, or permanent residents and enrolled as undergraduates following summer 2013. Please address any questions to rosenblum@berkeley.edu and bring this opportunity to the attention of promising undergraduates.

Erica Bree Rosenblum, Ph.D. Dept Environmental Science Policy and Management Museum of Vertebrate Zoology University of California, Berkeley 94720-3114 <http://nature.berkeley.edu/rosenblum> rosenblum@berkeley.edu

UCBerkeley
SummerUndergraduateREU
EvolEcol

NSF funded Research Experience for Undergraduates (REU) position available: Evolutionary ecology of White Sands Lizards

The Rosenblum lab at UC Berkeley is currently accepting applications from highly motivated undergraduates for a summer 2013 REU position. The REU student will participate in an integrative project exploring the

UKansas UnderGradProgram

The Department of Ecology and Evolutionary Biology at The University of Kansas announces that its new Research Experiences for Undergraduates (REU) Program: Models in Ecology, Evolution and Systematics has been recommended for funding by the National Science Foundation. We are now accepting applications for our ten-week program that will run May 20-July

26, 2013. Students will participate in mentored, independent research and will receive additional training.

Mathematics majors with an interest in biology as well as biology majors 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://eebreu.ku.edu>. Other inquiries may be directed to the program at eebreu@ku.edu. The application deadline is March 1, 2013.

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 <http://www.ku.edu/~eeb/faculty/gleason.html>

UWinnipeg Bat Volunteers

Volunteer Field Assistants wanted for White nose syndrome Bat project in Canada

Volunteers wanted from Mid April to the end of May 2013 to assist with a field project on little brown bats (*Myotis lucifugus*) and factors which may be important in managing the disease white nose syndrome (WNS) currently wiping out colonies of hibernating bats in the USA and Canada.

Field work will take place in Manitoba and Ontario in multiple teams each led by an experienced local crew leader. Team volunteers will assist with capture and handling of individual bats as they emerge from hibernacula (caves or mines) in the spring, outfitting bats with passive transponders (PIT tags) and deployment of PIT-tag recording systems. This is an excellent opportunity to obtain training and gain experience in field research with bats, disease ecology and basic electronics.

Food and accommodation in the field will be provided as will return travel to and from Winnipeg at the beginning and end of fieldwork. Accommodation will be basic; either camping or in rustic cabins. Training will be provided and no experience is necessary but candi-

dates should have an interest in ecology, wildlife, field biology and animal behavior. A large amount of time will be spent camping or in basic accommodation in all weather conditions and, as such, successful applicants need to love the outdoors, be up-beat, positive, responsible and work well as part of a team.

In addition to work from April to May, there is the possibility of renewal of some of these positions from late July to late September depending on performance. If you have any further questions or wish to apply for one of these posts please send a CV with a cover letter and contact details of three references (with email addresses) by email to Mary-Anne Collis (macollis@gmail.com) by 15th February 2013.

Contact:

macollis@gmail.com

Department of Biology, University of Winnipeg, 515 Portage Avenue Winnipeg, Manitoba CANADA R3B 2E9

Cell: 001 (204) 230 0756

Skype: [macollis1984](https://www.skype.com/people/macollis1984)

macollis@gmail.com

vonHumboldtFoundation Fellowship

Dear All,

Evolutionary biologists are eligible for this award, please check it out: There is a Sofja Kovalevskaja Award by the Alexander von Humboldt Foundation, "offering promising young researchers from all over the world attractive career prospects in Germany. Junior research talents of all disciplines from abroad are given the opportunity to establish working groups of their own at German research institutions." The Sofja Kovalevskaja Award is up to 1.65 million EUR and enables each winner valuable starting capital to spend five years pursuing an innovative research project at a research institute of his or her choice.

Outstanding junior academics of all disciplines who completed their doctorate less than six years ago are eligible to apply for the Sofja Kovalevskaja Award. German researchers have to have been working abroad for more than five years. Applications must be submitted by 1 September 2011.

Details of the application procedure for the Sofja Ko-

valevska Award can be found on our website at: www.humboldt-foundation.de/skp.en. For individual questions, you are also welcome to contact info@avh.de.
forwarded by: Klaus Reinhardt Sperm Evolu-

tion and Ecology University of Tuebingen <http://www.uni-tuebingen.de/?id=14671> Klaus Reinhardt <k.reinhardt@uni-tuebingen.de>

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Postdoctoral Position: Steps to multicellularity in volvocine green algae

A postdoctoral position is available in the laboratory of Dr. Richard E. Michod (<http://www.eebweb.arizona.edu/Michod/>) in the Department of Ecology and Evolutionary Biology at the University of Arizona (Tucson, AZ; <http://eebweb.arizona.edu/>). We are looking for a motivated, enthusiastic and independent individual with a strong background in evolutionary biology and/or genomics and molecular biology to address questions concerned with the evolution of multicellularity, using the volvocine green algal group (*Chlamydomonas* and its multicellular relatives) as a model-system. Current projects in the lab include studying the genetic basis for the evolution of germsoma differentiation, measuring life history trade-offs using molecular techniques, artificial selection experiments on body size, and the role of stress and DNA damage in the evolution of the sexual cycle.

To formally apply please go to <https://www.uacareertrack.com/applicants/jsp/shared/-frameset/Frameset.jsp?time=1361561529671> and reference job #51978. Also, please e-mail michod@ <[http://goog.1242408572](mailto:michod@u.arizona.edu)>u.arizona.edu with subject line "postdoc ad" with the following information attached: a statement giving your research interests and qualifications, a CV, the names and contact information of three references, and a statement describing what interests you about this position and whether you have any particular ideas or projects you wish to pursue were you to join our lab.

The initial appointment is for one year, with up to an additional 3 years of funding available conditional on satisfactory performance. The position is funded by a NASA grant in the salary range 34-42K per year depending on experience (a benefit package is also included).

The University of Arizona is an EO/AA Employer.

–

Erik R Hanschen PhD Student, Michod Lab Department of Ecology and Evolutionary Biology University of Arizona

"Nothing in biology makes sense except in the light of evolution." -Theodosius Dobzhansky, 1973

hanschen@email.arizona.edu

CESAB France DiseaseDynamics

Post-doctoral Position in Disease Ecology at the French Center for Synthesis and Analysis of Biodiversity (CESAB)

We are seeking a highly motivated postdoctoral researcher to join an international working group investigating connections between biodiversity and emerging infectious diseases. The group is based at the French Center for Synthesis and Analysis of Biodiversity (CESAB www.cesab.org), and jointly funded by the French Foundation for Biodiversity Research (FRB; <http://www.fondationbiodiversite.fr/>) and the international programme on biodiversity research, DIVERSITAS (www.diversitas-international.org). Projects initiated by this group will explore three major questions: 1) Which life history characteristics make organisms good hosts for parasites? 2) What traits favor cross-species transmission of parasites? 3) How does biodiversity affect disease emergence, particularly in a spatial context?

The postdoctoral researcher will work with an international and interdisciplinary team of scientists (up to 14 scientists involved) led by Jean-François Guégan and Benjamin Roche (Institut de Recherche pour le Développement, France), and James Mills (Emory University, USA). The position will be based at Montpellier (IRD research centre; www.france-sud.ird.fr) in southern France, but international travel (Italy, USA, Mexico) to enhance research collaboration among team members is expected.

The successful applicant will be broadly trained in ecology or a related field (PhD or equivalent degree required), with expertise in one or more of the following areas: spatial ecology, community ecology, mathematical modeling, bioinformatics, phylogenetic and comparative analyses, compilation and manipulation of large datasets. Prior research experience with infectious diseases is expected. The ability to communicate in French is not required, but is considered a plus.

The appointment is for 2 years with a start date of May 2013. The non-negotiable net salary ranges from 1,800 to 2,000 euros/month (before income tax) depending on previous experience. To apply, please submit a cover letter describing your research interests, a CV, and the names and contact information for three references to Jean-François Guégan (jean-francois.guegan@ird.fr),

with “BIODIS postdoc position” as the subject. Deadline for application: 15 March. A short-list of candidates will be interviewed by the BIODIS consortium, until the position is filled.

This research working group is also sponsored by the international programme DIVERSITAS

– Benjamin Roche

International Research Unit UMMISCO Center for Mathematical and Computational Modeling of Complex Systems Research Institute for Development (IRD) 32, avenue Henri Varagnat 93143 Bondy Cedex, France

Phone: +33629585460 e-mail: roche.ben@gmail.com
web: <http://roche.ben.googlepages.com> Benjamin Roche <roche.ben@gmail.com>

CIBIO UPorto MultiplePostdocs

CIBIO (<http://cibio.up.pt>) is a young and highly dynamic Research Centre located close to Porto, in the north of Portugal, which aims to be an international Centre of Excellence in the fields of Biodiversity and Evolution, offering great opportunities for multidisciplinary and stimulating research. The Centre is part of /InBIO/, a Portuguese Associate Laboratory, occupies recently-built facilities, and has more than 100 researchers holding a PhD degree, as well as more than 100 MSc and PhD students, and people from many different countries. Researchers are organized in 17 research groups. The working atmosphere is vibrant and enthusiastic, and CIBIO is regularly visited by many scientists from abroad. Porto is a world-heritage town, capital of Port wine, and the Northern region of Portugal provides rich cultural and outdoor activities. The Centre has fully equipped molecular laboratories (multiple PCR rooms, automated sequencers, real-time PCR machines, etc), as well as technicians and administrative staff, and the necessary equipment for fieldwork. Research projects are performed at a global scale. We are now advertising one 30-months Postdoc position (www.eracareers.pt) primarily funded by Portuguese science funds and expect to recruit an enthusiastic and highly motivated researcher in the area indicated below. The position is expected to start by March 1st, 2013. In all cases, ample possibilities and opportunities for continuation of research are expected to become available in the years to come.

*Biodiversity observation systems and supporting com-

putational tools***

**

A 30-month post-doctoral fellowship is open at CIBIO (<http://cibio.up.pt>), University of Porto, Portugal, for the Biodiversity and Conservation group to develop applied ecological research focused on biodiversity observation systems and supporting computational tools. The successful candidate should hold a Ph.D. degree in biological, environmental, mathematical or computer sciences, and have a relevant scientific CV demonstrating experience in scientific research and international communication of results. Significant experience in the use of statistical and spatial analysis tools will be highly valued, particularly in the context of ecological or environmental modelling. Knowledge of plant or animal ecology and/or diversity and experience in biodiversity surveys will be additional selection factors. The fellowship holder will collaborate actively in the development of statistical and computational tools to support the design and optimization of monitoring programs for habitats and several groups of flora and fauna. Research will focus on the specification of monitoring programs, on the statistical and spatial design of optimized sampling networks for species and habitats under environmental and social-ecological change scenarios, on the development of modelling and simulation algorithms, on the development of supporting computational tools for data management, and on the development of quality control routines. The grant holder will participate actively in several research activities and is expected to pursue scientific communication of results in international high-impact journals. The candidate should be a good communicator and speak and write fluent English. The ranking of candidates will result from a global appreciation of the Curriculum vitae, possibly followed by a job interview. The grant will correspond to 1450 EUR per month (12 months).

Applications including a detailed CV, a statement of research interests and motivation, as well as the emails of at least three referees will be accepted until February 20th, 2013. However, the committee will begin reviewing applications immediately and continue until the position is filled. The positions are expected to start in March 1st, 2013. Informal inquiries and applications should be addressed to:

Dra. Sara Ferreira

Gestora de Ciência e Tecnologia

CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos

Campus Agrário de Vairão, Universidade do Porto

4485-661 Vairão Portugal

Telef: +351.252660411 Fax: +351.252661780 Email: cibio.up@cibio.up.pt

CIBIO(<http://cibio.up.pt>) is a young and highly dynamic Research Centre located close to Porto, in the north of Portugal, which aims to be an international Centre of Excellence in the fields of Biodiversity and Evolution, offering great opportunities for multidisciplinary and stimulating research. The Centre is part of /InBIO/, a Portuguese Associate Laboratory, occupies recently-built facilities, and has more than 100 researchers holding a PhD degree, as well as more than 100 MSc and PhD students, and people from many different countries. Researchers

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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>

CaliforniaAcademySci AfricanHerpetology

POSITION DESCRIPTION Postdoctoral Researcher
Department of Vertebrate Zoology & Anthropology
(Section of Herpetology)

Please apply directly to: The California Academy of Sciences' SnapHire e-recruitment platform (<http://calacademy.snaphire.com/>), accessing Postdoctoral Researcher - VZ&A (Herpetology).

Applications should include 1. A cover letter briefly summarizing their interest 2. A CV, with a list of publications 3. A short statement of general research accomplishments and goals, 4. Names and contact information of three references 5. The anticipated date of completion of doctorate, if applicable.

POSITION SUMMARY: Reporting to Assistant Curator of Herpetology, the incumbent will pursue collaborative and independent research related to a NSF-sponsored project on African biodiversity and biogeography. This scholar will pursue research that addresses diverse questions, including related to phylogeography, historical biogeography, and morphological evolution. A focus will be placed on projects using comparative methods and diverse forms of data, including compar-

ative morphology, molecular phylogenetics, and geographic distributions. The scholar will be involved in both collaborative and independent field research related to collecting specimens, tissue samples, and associated data for use in on-going research projects. This position will also provide opportunities for the scholar to communicate his/her research, and about Science in general, to a broad audience through participation in public-facing activities at the Academy.

ESSENTIAL DUTIES and RESPONSIBILITIES: Ability to perform standard laboratory methods related to data acquisition for both comparative morphological (e.g., dissections, measurements) and molecular phylogenetic (e.g., genomic DNA extractions, PCR, DNA sequencing) studies Perform phylogenetic comparative studies using standard platforms (e.g., in Mesquite, python, and common R packages: e.g., ape, phytools, geiger) Work independently, as well as collaboratively with Academy staff and PI Perform independent and collaborative international field research related to specimen acquisition Assist with specimen and tissue curation in the Academy's herpetology collections, as needed Work collaboratively with staff in both Herpetology and Center for Comparative Genomics Be highly organized, creative, and goal-driven Follows Academy safety regulations Other duties as assigned

QUALIFICATIONS: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE: The ideal candidate will possess a combination of the following education and/or equivalent experience: Ph.D. related to evolutionary biology and with an interest in vertebrate diversity (including amphibians and reptiles) Experience conducting independent research using diverse forms of data, including from scientific research collections Prior experience with comparative morphology, molecular phylogenetics, comparative methods, and independent international field research Demonstrated record of scholarly productivity related to evolution, biogeography, systematics, and/or phenotypic diversity is highly preferred Word-processing, database, and spreadsheet experience required

KNOWLEDGE, SKILLS AND ABILITIES: Experience with standard protocols related to data acquisition in comparative morphology, molecular phylogenetics, and creation of scientific research collections Creative scientific thinking Critical thinking, initiative, organi-

zation and time management skills, excellent attention to detail, excellent oral, written, and graphic communication, flexible attitude, strong follow-through, and ability to perform repetitive tasks with precision are necessary. Skilled public speaker Proficiency in phylogenetic comparative methods, including using R and/or python Proficiency with both Apple and PC computer platforms An interest in science communication and interacting with the general public

LANGUAGE SKILLS: Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to speak effectively while working with individuals and groups.

PHYSICAL DEMANDS & WORK ENVIRONMENT: The physical demands and work environment described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee is frequently required to stand, sit,

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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>

CambridgeU 2 HumanEvolution

Post-Doctoral Research Associates Department of Archaeology and Anthropology Vacancy Reference No: JE25642 Salary: £27,578 - £35,938 Limit of tenure applies* Department of Archaeology and Anthropology is pleased to announce two full time Research Associate Fellowships one with the effect from 23rd April 2013 or soon after that date and the second from January 2014. The Research Associates would be funded by a grant from the ERC titled, An inter-disciplinary approach for identifying evolutionary active regions in the human genome. The project involves research on the variation of human genome in populations from various climate zones. It will combine evidence from Humanities and Natural Sciences to build realistic models of population dispersals over the past 100 thousand years and using high-throughput genotyping and second generation sequencing methods will attempt to reveal re-

gions in the genome that have been affected by natural selection due to environment and life style differences. Applicants should have, or must be expecting to complete, a Ph.D. in Population Genetics, Bioinformatics or related field before they take up this position. A good knowledge of models, methods, and theory in human population genetics and working experience with genomic data bases is required. In addition, programming skills, experience with computer simulations and familiarity with analysis tools designed for genome-wide genotype and second generation sequencing data will be an advantage. Informal enquiries may be addressed to Dr. Toomas Kivisild at tk331@cam.ac.uk Applications consisting of a full CV, letter of application and a signed CHRIS/6 application cover sheet (Parts 1 and 3 only) with the names and contact details of two referees should be sent to Mrs Fiona Moore, Department of Archaeology and Anthropology, Pembroke Street, CB2 3DZ, e-mail: fcm30@cam.ac.uk to arrive no later than 11th March 2013. A CHRIS/6 application cover sheet can be downloaded from www.admin.cam.ac.uk/offices/hr/forms/chris6/ Interviews will take place on 25th - 29th March 2013 * Limit of tenure: 20 months for one Research Associate starting in April 2013 and 30 months for the one starting in January 2014. Closing date: 11th March 2013. The University values diversity and is committed to equality of opportunity. The University of Cambridge only advertises their own and college vacancies on this website; we do not advertise any external vacancies. The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

Fiona Moore <fcm30@cam.ac.uk>

Donana Spain Biodiversity

Dear colleagues,

>From the Spanish research center in the area of natural resources and biodiversity, Doñana Biological Station, at Seville, Spain, we offer 7 2-year postdoctoral fellowships. We attached bellow the announcement with the requirements for its widest dissemination.

Thank you very much in advance

Please don't hesitate to contact: severo.ochoa@ebd.csic.es

(Sorry for cross-posting)

Postdoctoral Fellowship Opportunities at Doñana Bio-

logical Station (EBD), Sevilla, Spain. Funded by the "Severo Ochoa" Excellence Program awarded by the Spanish Ministry of Economy and Competitiveness, we seek applicants for seven two-year postdoctoral fellowships. The Doñana Biological Station, belonging to the Spanish Council for Research (CSIC), is currently made up of 43 faculty members working in the following research lines: Plant-Animal Interactions Evolutionary Biology Molecular Ecology and Evolutionary Genetics Conservation Biology and Global Change Biological Invasions Ecological Synthesis Wetland Ecology

Both junior and senior postdoctoral candidates with an outstanding publication record are encouraged to apply. Postdoctoral fellows at EBD typically interact with several lab groups and are expected to participate in seminars, discussion groups, training courses and workshops. Candidates are encouraged to contact potential collaborating faculty members at EBD (www.ebd.csic.es) to inquire about current and potential research activities and projects. Selected candidates will be mentored by one or two faculty members designated by the Steering Committee of the Severo Ochoa Program.

Starting date: Summer 2013 approx. Salary: 39,000 € approx. per yr. before taxes

Candidates should send curriculum vitae, two letters of reference, and a statement of overall scientific goals and interests (approximately 1500 words). Please also indicate the research line, among the seven ones cited above, which better fit your expertise. You may also name faculty members with whom you may like to interact, and who may act as mentors. Selected candidates will participate in ongoing projects led by their mentors. Applications and Reference letters should be sent to the email or FAX address below. Reference letters must be sent directly by the referee. severo.ochoa@ebd.csic.es or Fax: 34 954621125 Closing date for application, 24 February 2013.

Doñana Biological Station hires on the basis of merit and is an equal opportunity employer. We encourage all qualified candidates to apply.

On behalf of the Steering Committee of the "Severo Ochoa" Program at Doñana Biological Station, Juan J. Negro, Director

Rosa Rodriguez ICTS-RBD Estación Biológica de Doñana, CSIC Av. Americo Vespucio, s/n. Isla de la Cartuja E-41092, Sevilla. Spain Teleph. +34- 95- 4466700, ext.1018 Fax: + 34- 95- 4466125 e-mail: rosa@ebd.csic.es

Rosa Rodriguez <rosa@ebd.csic.es>

French Guiana Forest Population Genomics

Post-doc position in population genomics and ecological genetics of tropical forest trees

A post-doc position for 12 months, renewable for 18 further months, is open to work on tropical tree population genomics at Kourou, French Guiana, at the EcoFoG joint research unit.

The hired post-doc will work on a project (FLAG, <http://www.ecofog.gf/spip.php?article635>) revolving around the detection of disruptive selection across ecological gradients and contrasts in tropical tree populations, in the context of evolutionary/ecological genomics and of the modelling of the response of tree stands to expected global change. He/she will prepare DNA samples for NGS genotyping and analyse the data derived from such genotyping activities (which will be outsourced), mostly focussing on modelling of population genetic processes with a minor involvement in bioinformatic data treatment. He/she will also be involved in the setup of reciprocal transplants and in the measurement of quantitative traits in the field. The hired post-doc will closely interact with a resident team (<http://www.ecofog.gf/spip.php?rubrique91>) of three scientists, two Ph. D. students and two technicians, plus he/she will work with another post-doc, hired in the same partnership to work on the same kind of data on temperate trees, and with the rest of the partnership (see FLAG website) for the modelling activities. The EcoFoG Ecological Genetics team is a leader in the population and ecological genetics and in the genomics of tropical tree species and offers wide opportunities for networking with other laboratories around the world.

The grant will start on April 1st, 2013. Propensity for team work, data analysis, statistics and modelling, programming skills (particularly with R), as well as the capacity to live in a remote (hot, humid) place and work in a 'natural' forest, are prerequisites for the job. Speaking at least rudimentary French and a will to improve it are a good thing for everyday survival and for interaction with team members. Net salary will be around 1700 euro/ month plus the benefits of the French welfare system. For further questions please contact Ivan Scotti (FLAG project coordinator and Team leader) at ivan.scotti@ecofog.gf.

Ivan Scotti 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, i.scotti.inra.kourou@gmail.com; web: <http://www.ecofog.gf> VISITORS TO FRENCH GUIANA MUST HOLD A VALID YELLOW FEVER VACCINE CERTIFICATE

Ivan Scotti <Ivan.Scotti@ecofog.gf>

George Washington U Drosophila Sperm Evolution

An NSF-funded postdoctoral position is available in the lab of Mollie Manier (<http://mkmanier.expressions.syr.edu/home>), a beginning assistant professor in the Department of Biological Sciences at the George Washington University (<http://departments.columbian.gwu.edu/biology/>) in Washington, D.C. My research program investigates the evolutionary, molecular and developmental mechanisms of rapid diversification of reproductive traits. The goals of the current project are (1) to understand the molecular genetics behind the extraordinarily long sperm of *Drosophila* (up to 5.8 cm in length), (2) to describe the molecular evolution of sperm length genes across the *Drosophila* lineage, and (3) to investigate their roles during spermatogenesis. This project is in collaboration with Scott Pitnick (<http://pitnicklab.syr.edu>), Steve Dorus (<http://biology.syr.edu/faculty/dorus/doruslab/HOME.html>), and John Belote (<http://biology.syr.edu/faculty/belote/belote.htm>) at Syracuse University, and there will be opportunities for the postdoc to travel to Syracuse for training in those laboratories.

Successful candidates will have a background and/or interest in one or (preferably) more of the following areas: evolutionary biology, sexual selection, speciation, molecular evolution, quantitative genetics, phylogenetics, molecular genetics, evo-devo, developmental biology, cell biology (particularly cell development/morphogenesis), reproductive biology, spermatogenesis.

Our research is multidisciplinary and will require a diverse skill set. The postdoc will need to have or learn the following relevant skills: *Drosophila* culture,

DNA and RNA extraction and amplification, qPCR, sequencing, *Drosophila* testis dissection, *Drosophila* RNAi knockdown, RNA in situ hybridization, protein immunohistochemicalization, tissue culture, fluorescence microscopy, data management and analysis, some bioinformatics/programming, writing, and communication.

The position is available Sept. 1, 2013, but the exact start date is somewhat negotiable. Funding is available for three years, with continuation after the first year commensurate upon mutual agreement. Salary is at the NSF rate.

The postdoc will be closely mentored in his or her career development and will be encouraged to develop an independent research program, attend departmental seminars and reading groups, write grants for self-funding, give departmental seminars, and participate in any postdoc training opportunities offered at the George Washington University.

To apply, e-mail Mollie Manier at maniermk@gmail.com with your CV, thesis summary, research interests, and short-term and long-term goals.

maniermk@gmail.com

INIA Madrid Tree Evolutionary Genomics

The Population Genetics and Evolution (PGE) Group at the INIA Forest Research Centre in Madrid, Spain, would like to advertise a postdoc position (17 months) on evolutionary genomics and bioinformatics of tropical trees. Foreseen start date is the 1st of June 2013.

The position is linked to the project CGL2012-40129-C02-02/ AFFLORA: Demographic history and adaptation in tropical trees (2013-2015) funded by the Spanish National R+D+i plan.

The successful candidate should have experience in experimental design and use of Next Generation Sequencing data for population genomics. Additional assets are expertise in population or adaptation genetics of trees and in tropical ecology. Proficiency in English is essential, the knowledge of French and Spanish are desirable. The successful candidate will design and carry out RADSeq or genotyping-by-sequencing in several species of the genus *Symphonia* (Clusiaceae) and elucidate the

evolutionary history of the genus combining ecological and genomic data. There will be opportunity to carry out fieldwork in tropical Africa and/or Madagascar.

The PGE group at INIA-CIFOR is composed of four researchers (Santiago C. González-Martínez, Juan José Robledo Arnuncio, Ricardo Alía and José Climent), two “Ramón y Cajal” fellows (Delphine Grivet and Myriam Heurtz), two postdocs, five PhD students and two technicians. Our expertise is in population and quantitative genetics, evolutionary ecology and population dynamics of plants, mostly forest trees. Our main study organisms are Mediterranean conifers and some tropical trees. We examine the demographic, reproductive and genetic processes that influence adaptation to changing environments of forest species, including biogeographic approaches and applications for management and conservation of forest genetic resources. We develop studies on gene flow, local adaptation, plasticity and phenotypic integration and on the molecular basis of adaptation, as well as new statistical methods.

INIA Forest Research Centre: <http://www.inia.es/-IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR-CGL2012-40129-C02-02/> AFFLORA: <http://wwwsp.inia.es/Investigacion/centros/CIFOR/-departamentos/ecofor/PyC/Documents/CGL2012-40129-C02-02%20AFFLORA.pdf> For further information, please contact Myriam Heurtz: heurtz.myriam@inia.es; heurtzm@gmail.com, <https://sites.google.com/site/myriamheurtz/> -

Myriam Heurtz Ramón y Cajal Research Fellow INIA. Forest Research Centre Dept. Forest Ecology and Genetics carretera de la Coruña km 7.5 E-28040 Madrid Tel: ++34 91 347 87 62

Scientific collaborator of Université Libre de Bruxelles Evolutionary Biology and Ecology, cp160/12 av. F.D. Roosevelt 50 B-1050 Bruxelles, Belgium email: mheurtz@ulb.ac.be

<http://sites.google.com/site/myriamheurtz/> Plant Ecology and Evolution: <http://www.plecevo.eu/> Myriam Heurtz <heurtzm@gmail.com>

IOZ Beijing ComputationalEvolGenomics

Assistant/Associate Investigator or Postdoctoral Positions in Computational & Evolutionary Genomics at

Institutes of Zoology (IOZ), Chinese Academy of Sciences (CAS), Beijing, China

Supported by 1000 young talents program in China, Zhang Lab at IOZ of CAS is seeking highly motivated and ambitious assistant/associate investigator or postdoctoral fellows in the areas of Computational & Evolutionary Genomics. By combining comparative genomics and functional genomics in either fly or mammals, we explore how the joint action of mutation and selection shapes gene gain and gene loss in evolution, and how gene content evolution affects the phenotypic evolution. Representative publications are PLoS Bio.

2012/2011/2010, PLoS Genet. 2012, Science 2010 and Genome Res. 2010/2009. For more details, please refer to the lab website, <http://zhanglab.ioz.ac.cn> Applicants with at least one of the following categories of training are preferred: programming language such as Perl or Python, statistical language such as R or matlab, fly genetics, functional genomics. Salary or compensation will match with the experience. Chinese applicant who is dedicated to receive the PhD degree around the middle of 2013 is able to apply for the residence in Beijing if he or she applies for the assistant investigator position. Applicants with outstanding publication records are encouraged to apply for the associate investigator position or the well-funded Postdoctoral International Exchange project.

Please submit a cover letter (including a brief statement of interest), CV and contact information of two references to Dr. Yong E. Zhang by email (zhanglabioz@gmail.com). Closing Date: until filled. Start of position: flexible.

Yong E. Zhang, Ph.D Computational & Evolutionary Genomics Group Institute of Zoology, CAS <http://zhanglab.ioz.ac.cn> Haiwang Yang <haiwangyang@ioz.ac.cn>

ISTAustria EvolutionaryTheory

A postdoctoral position is available, for research in evolutionary theory. Possible topics include quantitative genetics, evolution of recombination, speciation, spatial population structure, and evolutionary computation, but other areas can be considered.

The position will be available for three years; the salary scale starts at euro 47,250 p.a. Applicants should have a Ph.D. in a relevant area (including population genet-

ics, computer science, mathematics and physics), with strong mathematical and computing skills, and an interest in fundamental research.

The Institute of Science and Technology is a new multidisciplinary research institute, located in the Wienerwald, just outside Vienna (www.ist-austria.ac.at). The Institute encourages multidisciplinary research, and has strong groups at the interface between biology and physics, and in computer science. There are close links with other evolution groups in Vienna (see www.univie.ac.at/evolvienna).

For further details, please contact nick.barton@ist.ac.at. Applications should be sent by February 28th, and should include a CV, a statement of research interests, and names of referees.

n.barton@ed.ac.uk

IST Vienna EvolBiol

ISTFELLOW

IST Austria has set up a program for exceptional postdoctoral fellows with an emphasis on interdisciplinary work. Appointments will be for 2-4 years. Applications will be accepted at any time, but fellows will be selected twice a year in April and October, with deadlines on 15th of March and September, respectively. Applicants must have the support of one or more members of the IST Austria faculty; those with interests in evolution include Nick Barton, Jonathan Bollback, Sylvia Cremer, and Caroline Uhler.

Benefits:

* Internationally competitive salary * Full social security coverage * Travel, mobility and family allowance * Funding for conferences and scientific visits

The institute offers postdoctoral positions in the following fields: Biology, Computer Science, Mathematics, Physics, Neuroscience

ISTFELLOW is partially funded by the European Union. For a list of faculty members please visit www.ist.ac.at For inquiries, please contact istfellow@ist.ac.at For further information, please refer to the ISTFELLOW website: <http://ist.ac.at/istfellow> IST Austria is committed to Equality and Diversity.

Nick.Barton@ist.ac.at

IowaStateU BiodiversityTeachingFellowship

The Fellow will join a large team of approximately 60 science faculty working on the HHMI project at Iowa State University. The overall project annually impacts approximately 8000 1st and 2nd-year science students in all our science departments. The program provides students the chance to experience the excitement of discovery and to develop their broader scientific skills. The Fellows will also have the opportunity to join a research group, providing additional opportunities for scholarship, publication, and professional development in biology. Success in this position requires excellent organizational and interpersonal communication skills.

The complete job posting can be found at <https://www.iastatejobs.com/applicants/jsp/shared/-position/JobDetails.css.jsp?postingId=421290> To apply, send the following to cesmeestaff@iastate.edu:

1) A cover letter briefly summarizing qualifications, 2) Curriculum vitae, 3) A statement of scholarly interests and expertise, and 4) Arrange for three letters of reference to be sent to cesmeestaff@iastate.edu

For questions regarding this position, please contact Prof. Ogilvie at cogilvie@iastate.edu

To ensure consideration, submit application by 15 March 2013. Review of applications will continue until a suitable candidate has been identified.

Jeanne M. Serb Associate Professor

Department of Ecology, Evolution, and Organismal Biology 245 Bessey Iowa State University Ames, IA 50011 USA

tel: 515-294-7479; FAX: 515-294-1337 <http://www.eeob.iastate.edu/faculty/profiles/SerbJ/-SerbJ.html> serb@iastate.edu serb@iastate.edu

IowaStateU GrassSystematicsEvolution

Postdoctoral Research Associate in Grass Systematics and Evolution - Iowa State University

Research Topic: Examine the developmental biology and potential adaptive significance of vegetative grass structures and anatomical features.

Position Description: Conduct a set of anatomical and developmental studies to analyze the evolutionary patterns and potential adaptive significance of vegetative grass structures including life form, life cycle, vegetative growth and reproduction, and leaf structure and physiology. Research will require the integration of skills in plant anatomy, morphology and development with phylogenetics and analysis of correlated environmental variables.

Required Qualifications: Ph.D. degree in a discipline relevant to the research area.

Preferred Qualifications: Experience with terrestrial plant biology. Experience in microscopy, including immunolocalization techniques. Experience working cooperatively with faculty, graduate and undergraduate students. Evidence of strong writing and communication skills.

The successful candidate will 1) have effective interpersonal skills; 2) maintain effective attention to detail, meet deadlines, and prioritize competing demands; and 3) display an aptitude for problem-solving and independent thinking.

Salary: \$40,000/yr plus benefits

Application Process: Applications will be considered until the position is filled; however, applicants should submit by 5:00 p.m. EST, 22 February 2013, for full consideration. Availability for an in-person interview is required. The position is available immediately but the start date will be flexible contingent on the needs of the preferred candidate, ideally starting no later than April, 2013. The appointment is for one and a half years.

To apply please send the following materials to Dr. Lynn G. Clark (Dept. of EEOB) via email to: lgclark@iastate.edu

A cover letter describing your research interests and qualifications

Curriculum Vitae

Names and contact information for three references

Up to 3 relevant publications

Iowa State University values diversity and is an AA/EEO employer with an ADVANCE program to enhance the success of women faculty and faculty of color in science and engineering.

jnason@iastate.edu

IowaStateU InsectResistance

Postdoctoral Research Associate Department of Entomology Iowa State University Available 1 March, 2013

Position Summary: Postdoctoral position studying interactions between agricultural pest insects and crops that produce insecticidal toxins derived from *Bacillus thuringiensis*.

Duties and responsibilities: 1) Work as part of a team to accomplish research goals; 2) Run large-scale field experiments and laboratory bioassays, and assist students participating in these experiments; 3) Prepare manuscripts for publication; 4) Assist with grant writing; 5) Consult with principal investigator, technical personnel and other researchers to improve design of experiments and interpretation of results

Minimum qualifications: 1) Ph.D. in Entomology, Biology, Ecology and Evolution, or related field; 2) Demonstrated ability to publish results in refereed journals; 3) Ability to work independently

Preferred qualifications: 1) Knowledge of population genetics; 2) Knowledge of insect resistance to insecticides and transgenic crops; 3) Experience designing and conducting field and laboratory experiments

To apply, send a letter of application, curriculum vitae, reprints of two papers, and the names and contact information for three references to Aaron Gassmann (aaronjg@iastate.edu). Although electronic applications are preferred, application materials also may be mailed to Dept. of Entomology, 18 Insectary Bldg., Iowa State University, Ames, IA 50011

Review of applications will begin immediately and will continue until the position is filled.

Iowa State University is an Affirmative Action/Equal Opportunity Employer.

aaronjg@iastate.edu aaronjg@iastate.edu

LinkopingU 2 BehaviourEpigenetics

LINKOPINGS UNIVERSITET announces a position as

Postdoctor

Within Ethology or Genetics

Department of Physics, Chemistry and Biology (IFM)
University of Linköping, Linköping, Sweden.

Job description

The post doc will carry out research within the framework of the ERC-funded project “Genetics and epigenetics of animal welfare”. Together with other staff in the group, the post doc will be responsible for a broad analysis of behaviour genetics and epigenetics of chickens. Part of the project will involve laboratory work. Depending on the competence and interests of the candidate, this may involve physiological and hormonal analyses, or to carry out analyses of DNA-methylation and genotyping, or both. Practical work with chickens and behaviour is the major part of the project. The post doc will be involved in breeding and phenotyping of chickens, development of behaviour tests and all practical tasks in the chicken facility.

Qualifications

The successful candidate should hold a PhD in ethology, molecular genetics, physiology, or another relevant area. Experience with scientific work with chickens is a merit, as well as formal education or experience of lab work.

Closing date: 15 March.

Further information: Contact professor Per Jensen, perje@ifm.liu.se

Per Jensen Professor of Ethology IFM Biology, Linköping University AVIAN Behavioural Genomics and Physiology group Tel: +46 (0)13 281298

Web: <http://www.ifm.liu.se/biology/zoology/avian/>
Web private: www.perjensen.se —

LINKÖPINGS UNIVERSITET announces a position as

Postdoctor

Within Ethology

Department of Physics, Chemistry and Biology (IFM)
University of Linköping, Linköping, Sweden.

Job description

The successful candidate will work for two years within the framework of the ERC-funded project “Genetics and epigenetics of animal welfare”, and will, together with other staff in the group, be responsible for breeding and phenotyping dogs, and collecting necessary tissue samples for genetic analysis. The post doc will, in col-

laboration with other staff, develop behavioural tests and carry out the actual testing of dogs, which will require extensive travelling within Sweden. Furthermore, the post doc will, together with other staff in the group, be responsible for building and maintaining a logistics program connected with the breeding and homing of over 200 dogs. The post doc will also take active part in the lab work required for a large-scale QTL-analysis of behaviour, and in the analysis and interpretation of results.

Qualifications

The successful candidate should hold a PhD in ethology or another relevant area. Experience with scientific work with dogs is a large merit, as well as formal education or experience of genetic lab work. A driving licence is required.

Closing date: 15 March 2013

Further information: Contact professor Per Jensen, perje@ifm.liu.se

Per Jensen Professor of Ethology IFM Biology, Linköping University AVIAN Behavioural Genomics and Physiology group Tel: +46 (0)13 281298

Web: <http://www.ifm.liu.se/biology/zoology/avian/>
Web private: www.perjensen.se Per Jensen
<perje@ifm.liu.se>

MaxPlanck Tuebingen HIV Evolution

Post-doc positions at Max-Planck Tuebingen: HIV Evolution/Theoretical Population Genetics

Post-doctoral positions are available in the Max-Planck-Research group of Richard Neher in Tuebingen, Germany. Our group works on theoretical population genetics as well as HIV evolution. HIV is a very rapidly evolving facultatively sexual virus and the within patient dynamics of viral populations cannot be modeled with classical population genetics approaches. Instead, one needs population genetics of rapid adaptation.

Our group combines empirical research, a collaboration with Prof. Jan Albert at the Karolinska Institute in Stockholm, Sweden, who is using deep sequencing methods to obtain detailed snapshots of HIV populations at densely spaced time points, with theory. Dynamical data is a much richer source of evolutionary information than static snapshots and we will use this

data to parameterize models of HIV evolution. In addition to sequence information, our modeling of HIV evolution builds on structural information at the level of RNA genome and the viral proteins as well as the interaction of the viral population with the host immune system. The empirical work on HIV is complemented by theoretical work on the dynamics of rapidly evolving population.

The projects are funded by Max-Planck-Society, an ERC Starting Grant on HIV evolution, and a collaborative grant on translation efficiency in viruses together with Tamir Tuller at Tel-Aviv university.

We are looking for highly motivated applicants with a strong background in mathematics, as well as proficiency in at least one programming and one scripting language (python, preferably). A PhD in a relevant discipline (physics, math, biology, or computer science/bioinformatics, etc) is required. Prior exposure to population genetics and bioinformatics is desirable, but absolutely not necessary.

The institute is located on the Max Planck Campus in Tuebingen and offers an international environment, with English as the working language. We are part of a dynamic and interactive group of labs researching various aspects of evolution. Tuebingen boasts one of Germany's top universities and a vibrant cultural life with easy connections to major European cities.

Applicants should send an application (statement of research interest, CV, publication list, contact details of three references, merged into a single PDF) directly to richard.neher@tuebingen.mpg.de

Salary will be according to the public service employee pay scale (TVOED 13). For informal inquiries about the position, contact me via email.

You can find general information about our group and the institute at

www.eb.tuebingen.mpg.de/research-groups/richard-neher Relevant publications:

Genealogies of rapidly adapting populations. Richard A. Neher and Oskar Hallatschek. PNAS, 2012

Mathematical modeling of escape of HIV from cytotoxic T lymphocyte responses. V. Ganusov*, R. Neher*, A Perelson, JSTAT, 2013

FFPopSim: An efficient forward simulation package for the evolution of large populations. Fabio Zanini and Richard A. Neher. Bioinformatics (2012).

Recombination rate and selection strength in HIV intra-patient evolution. R.A. Neher and T. Leitner. PLoS Comput Biol (2010) vol. 6 (1) pp. e1000660

Rate of Adaptation in Large Sexual Populations. Neher et al., Genetics (2010) vol. 184 pp. 467-481

Richard Neher Max-Planck-Institute for Developmental Biology Spemannstrasse 35 72076 Tuebingen, Germany Tel.: +49-7071-6011345 email: richard.neher@tuebingen.mpg.de

richard.neher@tuebingen.mpg.de

MichiganStateU Phylogenetics

Phylogenetics and Biodiversity Informatics Postdoctoral Researcher: The Swenson Lab at Michigan State University (<https://www.msu.edu/~swensonn>) is seeking a postdoctoral researcher that will help design, test and implement phylogenetic methods for imputing missing values in global plant functional trait databases in order to facilitate the mapping of plant functional diversity on continental scales. The research is in collaboration with Dr. Jens-Christian Svenning at Aarhus University in Denmark (<http://pure.au.dk/portal/en/svenning@biology.au.dk>). Funding will be provided to the postdoctoral researcher each year to visit Aarhus, Denmark in order to collaborate with the Svenning lab. The position is for one year with a second year contingent upon satisfactory performance. Applicants with experience inferring large phylogenetic trees and/or phylogenetic comparative methods are particularly encouraged to apply. Interested applicants should contact Nate Swenson (swensonn@msu.edu) with a CV, a brief (0.5 page) statement of interest and previous research, and the names of 3 individuals that would be willing to provide letters of support. The search will remain open until the position is filled. Michigan State University (MSU) is an affirmative-action, equal opportunity employer. MSU is committed to achieving excellence through a diverse workforce and inclusive culture that encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

Nathan Swenson <swensonn@msu.edu>

NHM London AnnelidComparativeVenomes

Postdoctoral Research AssistantXComparative Venomics of Polychaete Annelids

We are excited to announce that a three year fixed-term position has opened for a Post-Doctoral Research Assistant in the Natural History Museum (London) to do research in the field of venomics. The candidate will be expected to spearhead the day-to-day activities in a research project that aims to characterize the composition, bioactivities, and evolution of polychaete venoms. Putative venom peptides and proteins will be profiled for several polychaete species with both transcriptomic and proteomic techniques, and the bioactivities of selected venom toxins will be assayed. Together these analyses will provide insights into the biology and evolution of polychaete venoms, and may lead to the identification of venom toxins that could be promising for applied uses. The successful candidate will be involved in all aspects of the research, including procurement of specimens in the field, data production and analysis, and communication of the results in both written in spoken formats.

Application deadline is 17 March 2013. For more details and information on how to apply for this position please visit <http://www.nhm.ac.uk/about-us/-jobs-volunteering-internships/index.html> For informal enquiries please contact Dr Ronald Jenner, Department of Life Sciences, Natural History Museum, Cromwell Road, London SW7 5BD, UK. Email: r.jenner@nhm.ac.uk

Dr Ronald A. Jenner Department of Life Sciences The Natural History Museum Cromwell Road London SW7 5BD United Kingdom

Tel. +44 207 942 6885 (office) / 5774 (lab) Fax. +44 207 942 5054 www.nhm.ac.uk/research-curation/-staff-directory/zoology/r-jenner/ Ronald Jenner <r.jenner@nhm.ac.uk>

NIMS Korea EvolutionTheory

A postdoctoral position in evolutionary ecology is available in the National Institute for Mathematical Sciences of Korea (<http://www.nims.re.kr/eng/>). The goal of research in this Institute is to obtain novel insights in the evolution of ecological systems by building integrative mathematical models of molecular evolution, population genetics, quantitative genetics and adaptive dynamics and apply them to ecological and genetic/genomic data. The postdoctoral researcher will

be involved in the development of biological models to be analyzed and be responsible for identifying the existing ecological and/or genetic data in public databases or other sources, to which mathematical model can be applied. He/she will work closely with mathematicians, geneticists and ecologists in NIMS as well as other collaborating institutes including Pusan National University and Ewha Womans University.

The ideal candidate will have experience in ecology or evolutionary genetics research and is knowledgeable in both areas. He/she should have quantitative skills that are strong enough to understand basic mathematical models in ecology and evolution (in order to communicate with mathematicians) and perform the statistical analyses of data or computer simulation. A candidate is welcome to bring his/her own research question as long as the project is within the scope of evolutionary ecology and suitable for collaboration.

Applications and queries should be sent to Yuseob Kim (yuseob@ewha.ac.kr) or Tae-Soo Chon (tschon@pusan.ac.kr). Please send a brief research statement and a C.V. Review of applications will begin immediately and will continue until the position is filled. The salary will be KRW 39,- to 40,000,000 for a PhD with no postdoctoral experience. The initial appointment is for one year but renewable upon research progress.

Yuseob Kim Assistant Professor Department of Life Science Division of EcoScience Ewha Womans University Seoul, Korea

Tel: +82 3277 3435

Yuseob Kim <yuseob@ewha.ac.kr>

NMNH Paris GorillaAdaptation

Open Post-doctoral Position National Museum of Natural History, Paris, France, in the context of the LabEx BCDiv, Biological and Cultural Diversities: Origins, Evolution, Interactions, Future

Post-doctoral Topic : Food and technical choices of food manipulation among the western gorillas: knowledge acquisition by adaptive mechanisms or traditions ?

Laboratories (Museum National d'Histoire Naturelle) : Main laboratory: UMR 7179, Mécanismes adaptatifs : des organismes aux communautés Other: UMR7206,

Eco-Anthropologie et Ethnobiologie

Supervision: Emmanuelle Pouydebat & Françoise Aubaile-Sallenave

Duration of the contract: 12 mois / 12 months

Scientific description Great diet flexibility and manipulation abilities allow primates to be more resilient than many other animals to fluctuations in climate and food availability. Primate food choice is complex and depends on different factors such as the nutritional quality of the available food, and the nutritional needs and health status of the individuals. Moreover, in great apes cultural differences seem to explain part of the feeding variation, but this is still debated as many consider culture to be a uniquely a human trait. Particularly, feeding techniques, which vary across different populations of chimpanzees and orang-utans, have been defined as cultural traits similarly to human societies who live in the same environment and have the same tools but show different cultural choices. Whether feeding traditions and culture exist in all species of great apes and how they are transmitted between generations is still an open question. Little is known on the elusive and endangered western gorillas. Yet, they appear to rely on different learning mechanisms in relation to the use of toxic plants in comparison to wild chimpanzees. The proposed research will shed light on feeding traditions and functional capacities of western gorillas at different levels: inter-species, inter-groups, inter and intra-individuals. This research aims at investigating: 1) the existence of 'cultural' traditions in gorilla food choice that are independent from food availability, 2) if the intra and inter-specific differences (in comparison to existing data on other primates, including humans) in food processing and manipulation techniques (including manual preferences) are linked to feeding traditions and/or morphological variability respectively, and 3) the behavioural mechanisms involved in the transmission of feeding information (food choice and processing) during learning. The candidate is expected to have previous field experience (preferably with gorillas) and will be working under natural conditions in West Africa.

Contacts : Dr Emmanuelle Pouydebat, MNHN, UMR 7179, Mécanismes adaptatifs : des organismes aux communautés. Département d'écologie et de gestion de la biodiversité, Pavillon d'anatomie comparée, 55 rue Buffon, CP 55, 75231 Paris. Phone: +33 (0) 1 40 79 81 19

Dr Françoise Aubaile-Sallenave, MNHN, UMR 7206, Eco-Anthropologie et ethnobiologie. Department Hommes Natures Sociétés, CP 135, 57 rue Cuvier, 75005 Paris, France. Phone : +33 (0) 1 40 79 53 37

CV and motivation letter must be sent to epouydebat@mnhn.fr AND aubaile@mnhn.fr before the 25 February 2013.

emmanuelle.pouydebat@mnhn.fr

New York Population Genomics

Post-doctoral Scholar (Full Time, 2 Years Fixed Term)

Department of Genetics and Genome Sciences

* *

*Job Duties***

A postdoctoral research position in *Population/Medical Genomics *is available in the newly established lab of Dr. Eimear Kenny in the Department of Genetics and Genome Sciences, Icahn School of Medicine at Mount Sinai, Manhattan, New York. Dr. Kenny's lab focuses on the analysis of human genetic variation to address fundamental questions in biology, medicine and anthropology. Her group uses genomic approaches for human functional variant discovery using a combination of state of the art bioinformatics, statistical and experimental approaches. Current lab research topics include; (i) Genomics of the peoples of the South Pacific, (ii) Population structure in large-scale sequencing studies, (iii) Statistical methods for complex trait mapping in admixed and isolated populations, (iv) Optimizing next-generation sequencing strategies for cost efficient interrogation of human genetic diversity populations. Details of current projects can be found here: [*http://research.mssm.edu/-kennylab/*](http://research.mssm.edu/-kennylab/) The successful candidate for this position will have substantial input to the specific nature of the research project. However, the project should broadly fit within the lab's goals of learning about evolution and demographic history from genetic variation data, applying population genetic principles to the analysis of complex traits and developing novel experimental sequencing paradigms tailored to population genomics questions. Opportunities will be available to analyze (and/or generate) next-generation sequencing data from a variety of global populations.

The position is available for 2 years and may be continued contingent on successful progress and available funding. A competitive salary, travel opportunities and excellent benefits package will be offered commensurate with experience. The position is expected to start in

spring/summer of 2013, though a specific start date is negotiable.**

Qualifications

§Candidates should have a Ph.D. in biology, genetics, computer science, statistics, anthropology, bioinformatics, computational biology, or a related field and the ability to work well in collaborative environments.

§Knowledge of theoretical population genetics, complex trait mapping and/or next-gen sequencing is a plus.

§This can be a computational position, or a combination of experimental and computational, however proficiency in programming in R, Perl (or Python), and shell scripting is essential. Other programming expertise (such as Java, C/C++) is highly desired.

§Preference will be given to candidates with a strong publication record, evidence of substantial research productivity, and ability to successfully communicate scientific information.

§Excellent English written and spoken skills are necessary.

Interested candidates should send a CV, a short (1-2 pages) description of both research interests and ideas for possible projects, and contact information for 3 references to Dr. Kenny at [*eimear.kenny@mssm.edu*](mailto:eimear.kenny@mssm.edu). Review of applications will begin in February, 2013 and will continue until the position is filled.

– Eimear Kenny, Ph.D. Assistant Professor in Genetics and Genomic Sciences Member, The Charles Bronfman Institute for Personalized Medicine Member, The Center for Statistical Genetics Member, The Institute for Genomics and Multiscale Biology Icahn School of Medicine at Mount Sinai One Gustave L. Levy Pl., Box 1003 New York, NY 10029 212-241-8288 eimear.kenny@mssm.edu

<http://research.mssm.edu/kennylab> Eimear Kenny <eimear.kenny@mssm.edu>

plants is open in the laboratory of Dr. Andy Jones at Oregon State University. Research will involve field collection and lab work including genotyping and sequencing using Sanger and Illumina techniques, data assembly and annotation, and population genomic and landscape analyses. The applicant will work with the PI and collaborators, graduate and undergraduate students, and technicians and will be responsible for aspects of project coordination in the lab and field, analyzing results and writing manuscripts, and contributing to the development of research approaches and directions. The applicant is required to have a Ph.D. in biological sciences with expertise in plant identification in the field, plant ecology and/or, and population and landscape genetics. Experience with R, python, or other programming environments are highly desirable. Salary will be commensurate with experience and the position will be renewed annually, dependent upon funding. The position is based at Oregon State University, willingness and ability to travel and work independently in tropical environments for extended periods of time is required. Knowledge of Spanish is desirable, but not required. The successful candidate will have to opportunity to work in collaborative field and lab environments at Oregon State University, the Smithsonian Tropical Research Institute (Panama), and at the Organization for Tropical Studies (Costa Rica) in collaboration with Matt Bett's lab at Oregon State (<http://www.fsl.orst.edu/fel/index.htm>). To be considered for this position, send as a single pdf a CV, copies of up to three relevant publications, a cover letter that includes future professional interests, and the names and contact information for three references to jonesfr@science.oregonstate.edu. Please include "Landscape Genomics Postdoc" in the subject header. Informal inquiries are welcome at the same address. More information can be found at <http://blogs.oregonstate.edu/joneslab/> Review of applications will begin March 15 and will continue until the position is filled.

ss463@cornell.edu

OregonStateU TropicalForestLandscapeGenomics

Postdoctoral Position in Tropical Forest Landscape Genomics, Department of Botany and Plant Pathology, Oregon State University.

A postdoctoral position to apply genomic approaches to understanding the ecology and evolution of tropical

OxfordU EvolutionaryBiology

The Department of Zoology is offering a Daphne Jackson Fellowship. Daphne Jackson fellowships are intended for those wishing to return to research after a career break of two years or more (<http://www.daphnejackson.org>). The fellowship is half time,

and for two years.

To be eligible for a Daphne Jackson Fellowship you must at least meet the following criteria:

A career break of at least two years' duration taken for family, caring or health reasons

A good first degree in science, technology, engineering or mathematics (STEM)

At least 3 years in research prior to career break and / or PhD qualification

Resident in the UK with the right to remain in the UK indefinitely

Good command of English (spoken and written)

Computer skills

The Fellow will have a supervisor at the Department of Zoology, who will act as a mentor and facilitate training. For potential supervisors, see the departments list of academic staff and senior research fellows: <http://www.zoo.ox.ac.uk/people/list>. The fellows research will be expected to fall within the active research areas of the Department of Zoology (<http://www.zoo.ox.ac.uk/research>). Applicants are encouraged to contact potential supervisors prior to submitting the application, to discuss potential projects.

If you would like to apply for this fellowship, please submit your CV along with a personal statement explaining your career break and future career plans to the Daphne Jackson Trust office (Djmft@surrey.ac.uk). For full details about the Trust and these opportunities, please see the website www.daphnejackson.org, ring the Trust office on 01483 689166, or email djmft@surrey.ac.uk. For further information about the Department of Zoology, see <http://www.zoo.ox.ac.uk> or email stuart.west@zoo.ox.ac.uk.

Closing date is Friday 8th March

Stuart West Professor of Evolutionary Biology Department of Zoology University of Oxford South Parks Road Oxford OX1 3PS

stuart.west@zoo.ox.ac.uk <http://www.zoo.ox.ac.uk/-group/west/index.html> tel: +44 (0)1865 281998 fax: +44 (0)1865 310447

Stu West <stuart.west@zoo.ox.ac.uk>

RutgersU RNAEvolution

RutgersU.RNAEvolution

A postdoctoral position is available in Kevin Chen's group at Rutgers University (<http://genfaculty.rutgers.edu/kcchen>). We are affiliated with the Departments of Genetics and Computer Science as well as the BioMaPS Institute for Quantitative Biology at Rutgers. Our group is broadly interested in developing computational methods for studying the function and evolution of small RNAs (e.g. microRNAs, piRNAs and CRISPRs). The mathematical techniques we use draw from machine learning, statistics and combinatorial algorithms. We also have close collaborations with several experimental labs.

We are located at the main Rutgers campus in Piscataway, NJ, about 30 miles from New York City. A PhD in a computational field such as computer science, bioinformatics or a related field is required. A background in algorithm development is preferred. Contracts will be one year renewable, up to two years. Please submit a cover letter, CV and contact information for three references to kcchen@biology.rutgers.edu. Review of applications will begin immediately.

Kevin Chen Assistant Professor BioMaPS Institute for Quantitative Biology and Department of Genetics Rutgers University <http://genfaculty.rutgers.edu/kcchen> "Chen, Kevin C." <kcchen@dls.rutgers.edu>

Stockholm WormGenomics

Post-doctoral researcher

A postdoc position is available in the research group of Ulf Jondelius at the Swedish Museum of Natural History, Stockholm.

We are looking for a highly motivated postdoc with interest in animal evolution for a project using data from genome sequencing of microscopic marine worms (Acoelomorpha). Acoelomorpha are simple animals lacking many features present in other Bilateria (e.g. circulatory system, body cavity, excretory organs). Their phylogenetic position is highly contested: they have been proposed to be either the earliest extant bilaterians, part of the flatworms, or deuterostomes closely related to echinoderms and hemichordates. The conflicting hypotheses imply widely disparate interpretations of their morphological evolution as either primitively simple or secondarily reduced in complexity. We

will sample genomic data to cover acoelomorph diversity aiming to reconstruct their phylogenetic position within the Metazoa and study the structure of the genomes expecting to find either a simple basal metazoan genome or higher bilaterian and deuterostome signatures. The successful candidate will work on assembly and analysis of genomes from several acoelomorph species together with the PI, collaborators, students, and technicians and will be responsible for analyzing results, writing manuscripts, and contributing to the development of the project.

The project is a collaboration with SciLife lab in Stockholm and Uppsala and colleagues at the Sars Centre in Bergen, Norway.

Qualifications The ideal candidate has a recent PhD in Bioinformatics, Genomics, Molecular or Evolutionary biology or related fields, experience in analyzing next-generation DNA sequence data, and a record of publishing in scientific journals. Programming experience in a scripting language (such as Python or Perl) is desirable.

Starting date is September 1, 2013. The appointment is for two years.

Informal enquiries should be directed to professor Ulf Jondelius (ulf.jondelius@nrm.se). Union representatives are Bodil Kajrup, SACO-S and Yvonne Arremo, ST. All can be reached at telephone number + 46 8 519 540 00.

How to apply: Applicants should submit (1) a cover letter describing your research interests and background, (2) a detailed CV (including publications), and (3) the contact details of three references as a single pdf document to rekrytering@nrm.se no later than May 10, 2013. Mark your application with dnr 2.3.1-144-2013 in the subject line.

Ulf.Jondelius@nrm.se

Switzerland Avian Population Modelling

Modelling large-scale population processes in Swiss breeding birds

The Swiss Ornithological Institute in Sempach (Switzerland) is seeking a highly motivated post-doctoral researcher to model large-scale population processes in Swiss breeding birds. The project aims 1) to

develop methods that allow the estimation of survival and recruitment from monitoring data and 2) to model spatial and temporal variation of survival and recruitment in selected species to better understand population trends.

The main data source in the project will be the Swiss breeding bird survey (MHB), which has been producing 2-3 replicated counts per breeding season in 267 1 km² quadrats in every breeding season since 1999. These data allow estimation of population trends in abundance while accommodating imperfect detection. However, the demographic mechanisms underlying these trends remain unknown. The model of Dail and Madsen (Biometrics 2011) enables the estimation of survival and recruitment from such data. Exploring the potential of the Dail-Madsen-model at the scale of Switzerland will be a first part of the project. A possible topic is also to develop extensions of the model, such as the inclusion of correlated spatial effects or the integration of MHB data with other data sets that are directly informative about demographic rates, such as ring-recoveries. A second part of the project is the application of the modelling framework to address relevant ecological and management questions. Candidates include the patterns of survival and recruitment along the altitudinal gradient in Switzerland or whether particular habitat types or regions are associated with higher survival or recruitment. It will be one of the duties of the selected candidate to identify relevant research topics in this field and then to expand on the identified issues using our data and the modelling framework to be developed.

The ideal candidate has solid experience in population modelling, in Bayesian statistical modelling and is a proficient programmer in the R and BUGS languages. Further, a demonstrated ability and willingness to produce high-quality publications will be an important selection criterion.

The work will be conducted in collaboration with Michael Schaub (michael.schaub@vogelwarte.ch) and Marc Kéry (marc.kery@vogelwarte.ch), which both are available for further information.

The position is initially for two years, but may be extended to a third year. The ideal starting date would be June 2013. Information on the Institute can be found at www.vogelwarte.ch/startseite-english.html. Applications (preferably by e-mail) should be submitted to Michael Schaub (michael.schaub@vogelwarte.ch), Swiss Ornithological Institute, 6204 Sempach, Switzerland, before 30 April 2013 and include a letter of motivation detailing research interests and experiences, a current CV and contact information of three academic referees.

Interviews will tentatively take place in May 2013.
Schaub Michael <michael.schaub@vogelwarte.ch>

SyracuseU MothEvolution

Postdoctoral Position in Insect Molecular Ecology

A postdoctoral position to study the molecular ecology of prodoxid moths (e.g. yucca and Greya moths) is available in the laboratory of Dr. David Althoff at Syracuse University. The position will require limited field collections and the use of DNA sequencing and microsatellite techniques to study population structure and phylogeographic structure. The overall goal is to examine the importance of host plant specialization in generating reproductive isolation among yucca moth populations. The position will be awarded for one year with the possibility of renewal for additional years. The ideal candidate will have strong interests in plant-insect interactions and the use of molecular ecology approaches to test evolutionary hypotheses.

Applicants should send an e-mail to Dr. David Althoff (dmalthof@syr.edu) explaining their interest in the position, a CV, and the names and contact information for at least two references. The position start date is negotiable, but no later than June 1, 2013. Review of applicants will begin March 14, 2013 and will continue until the position is filled.

David Althoff Assistant Professor Dept. of Biology
Syracuse University 107 College Place Syracuse, NY
13244 Office: 315.443.1096 Lab: 315.443.9368 FAX:
315.443.2012 althofflab.syr.edu

David M Althoff <dmalthof@syr.edu>

UArizona ProteinBioinformatics

A postdoc position is available to work with Joanna Masel (<http://eebweb.arizona.edu/faculty/masel>) at the University of Arizona in Tucson. A popular tourist destination surrounded on all four sides by mountainous national and state parks, Tucson is a vibrant city of nearly a million people with an attractive climate.

The Masel group's main research interests are in ro-

bustness and evolvability, using a mixture of analytical theory, bioinformatic and simulation approaches. We are looking for someone to do primarily bioinformatic work, but opportunities for related, more theoretical projects and/or experimental collaborations also exist. The EEB department in Tucson was ranked in the top 10 by US News & World Report, and has many other research groups doing evolutionary biology and/or bioinformatics, e.g. those of Mike Sanderson, Ryan Gutenkunst, and Mike Barker, providing a rich intellectual environment.

We are looking for someone to investigate the origin of novelty at the protein-sequence level. The conventional view is that new proteins evolve from old proteins via gene duplication and divergence. However, this poses a chicken-and-egg problem, implying an ancient "big bang" of protein creation. This project focuses instead on the ongoing de novo evolution of protein-coding genes from previously non-coding sequences. The postdoc will investigate both case studies of this phenomena, and computational predictors of biochemical properties that might facilitate such conversions over evolutionary timescales. Such predictors will be used to test concrete hypotheses that have arisen from theories of evolvability.

Excellent computer programming skills are strongly preferred, ideally with bioinformatics / genomics experience. Strong candidates who come from a more experimental background within evolutionary biology and who now wish to retrain as bioinformaticians will also be considered. Experience with (or at least prior interest in) evolutionary biology, protein structure and folding, statistics and other quantitative approaches are all advantages. A start date of August 2013 is preferred but negotiable, and the position is renewable, with funding secured for three years.

Contact Joanna Masel at masel@u.arizona.edu for more information or to apply.

masel@email.arizona.edu

UBasel HostMicrobeInteractions

Postdoc position in microbial population genetics and evolutionary genomics

A postdoc is available in the research group of Dieter Ebert, at the Zoological Institute at Basel University in Switzerland. I am looking for a highly motivated

post-doc with interest in the evolutionary genetics of host-parasite interactions. This position is funded to work on the evolutionary genetics/genomics of a bacterial parasite (*Pasteuria ramosa*) of *Daphnia*. A background in evolutionary genetics, including knowledge of molecular methods is essential. Bioinformatics skills are welcome. Excellent written, verbal, and interpersonal skills, a superb work ethic, and the ability to think creatively and critically are desired. The starting date is flexible. The positions are initially for 2 years, but can be extended to 3 years.

The post-doc will be part of Dieter Ebert's research group, working on the co-evolution of host-microbe interactions. Our experimental work uses *Daphnia* as the host system. Details about the group can be found under: <http://evolution.unibas.ch/ebert/> Please send application by E-mail to Dieter Ebert (dieter.ebert@unibas.ch). Applications (all in one single pdf file with your name as file-name, please) should include a CV, a list of publications and a 1 page description of your research interests and motivation. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Deadline for applications is 15. Feb. 2013. Interviews will be held soon after.

Contact information: Prof. Dr. Dieter Ebert, Basel University, Zoological Institute, Vesalgasse 1, 4051 Basel, Switzerland, Email: dieter.ebert@unibas.ch Tel. +41-(0)61-267 03 60

– Dieter Ebert Universität Basel, Zoologisches Institut, Evolutionary Biology Vesalgasse 1, CH-4051 Basel, Switzerland <http://evolution.unibas.ch/> Email: dieter.ebert@unibas.ch Tel. +41-(0)61-267 03 60 FAX +41-(0)61-267 03 62

dieter.ebert@unibas.ch

UBrest EvolutionMarineHabitat

Postdoc: Brest labexMer. Evolution of habitat and adaptations of populations

Four International post-doctoral fellowships in Marine Sciences are opened in 2013 as part of a new program co-sponsored by LabexMER 'A Changing Ocean', Ifremer, the University of Brest and the Brittany Regional council. Funding includes salary and support for travel or small equipment and supplies. Deadline for applicants: 30 April

2013. Starting date: September 2013 to March 2014. Application procedure: <http://www.labexmer.eu/-international-fellowships/post-doctoral-fellowships> We strongly encourage young scientists to contribute to LabexMer axis on 'Evolution of marine habitats and adaptation of populations', and more precisely to the following topics: - adaptation in marine invertebrates - contact person : Flavia Nunes (flavia.nunes@univ-brest.fr) - phytoplankton ecology: metabarcoding (contact person: Raffaele Siano, Raffaele.Siano@ifremer.fr), ecological niches evolution (contact person: Mickael Le Gac, Mickael.Le.Gac@ifremer.fr) - evolution of host-pathogen interactions, immunology, microbiology - contact person : Christine Paillard (paillard@univ-brest.fr) - metagenomics - contact person: Vianney Pichereau (Vianney.Pichereau@univ-brest.fr) - "Fish population responses to multistress" - contact person: Jean Laroche (jean.laroche@univ-brest.fr)

Christine Paillard <Christine.Paillard@univ-brest.fr>

UCanterbury EvolutionNetworks

Postdoctoral research fellowship Stouffer Lab, School of Biological Sciences, University of Canterbury, Christchurch, New Zealand

We invite applications for a postdoctoral research fellowship to study the structure, dynamics, and evolution of ecological networks in the Stouffer Lab < <http://stoufferlab.org/> > (School of Biological Sciences, University of Canterbury, New Zealand).

Requirements: The ideal candidate has a strong quantitative background, demonstrated research excellence, and a PhD in ecology, engineering, applied mathematics, physics, computer science, or related fields. Programming experience in both a compiled language (C or C++ preferred) and one or more scripting languages (such as Python or R) is highly desirable.

Position details: The position is part of a Fast-Start grant from the Marsden Fund Council, administered by the Royal Society of New Zealand. The salary will be in the range of NZ\$55,000-65,000 per year (depending on experience), and the starting date is negotiable. The initial appointment will be made for one year with renewal dependent on progress and mutual agreement.

How to apply: Applicants should submit (1) a cover letter describing your research interests and background, (2) a detailed CV (including publications),

and (3) the contact details of three references to daniel.stouffer@canterbury.ac.nz. The cover letter should also include possible starting dates.

Review of applications will start immediately and will continue until the post has been filled.

Dr. Daniel B. Stouffer School of Biological Sciences University of Canterbury Private Bag 4800 Christchurch 8140, New Zealand

+64.3.364.2729 (office) +64.3.364.2590 (fax) <http://stoufferlab.org> daniel.stouffer@canterbury.ac.nz

UCopenhagen ArthropodBiodiversity

Postdoctoral position in entomology at the Center of Macroecology, Evolution and Climate/Natural History Museum Denmark.

Danish National Research Foundation , University of Copenhagen and Technical University of Denmark

The Center of Macroecology, Evolution and Climate at the Natural History Museum of Denmark has an open postdoctoral position in entomology. The center has been established with funds from the Danish National Research Foundation (“Danmarks Grundforskningsfond”), the University of Copenhagen and the Technical University of Denmark. It is a long-term funded Center of Excellence that started 1st of January 2010. It will integrate terrestrial and marine research in a cross-disciplinary research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth.

The center will bring together ca. 40 marine and terrestrial high-profile scientists, postdoctoral scientists, PhD-students as well as technical and administrative staff. The center will juxtapose faculty staff scientists from the fields of macroecology, historical biogeography, oceanography, evolutionary biology, ecology, population biology, climate change research, conservation biology and environmental economics, who have been assigned to the center from the Department of Biology, the Natural History Museum of Denmark, and Forest & Landscape (all University of Copenhagen) and the National Institute of Aquatic Resources (Technical University of Denmark).

The postdoctoral position in entomology is to work on species diversity patterns of arthropods in the Eastern

Arc Mountains, Tanzania. The preferred candidate will become responsible for a new arthropod inventory program which the museum is launching in the Udzungwa National Park, Tanzania and the position will therefore require substantial and physically demanding fieldwork in Tanzania. The aims of the project are to investigate faunal turnover along altitudinal and longitudinal transects for selected groups of arthropods (alpha and beta diversity) and to further develop and promote standards, techniques and methodologies for state of the art and cost-efficient biodiversity inventories and assessments.

Qualifications

We seek a candidate with strong publication records within the topic of the postdoc position, strong analytical and data handling skills, experience with tropical fieldwork, and an ability to communicate within a cross-disciplinary research team. Taxonomical knowledge on the level of arthropod orders would be favorable.

The appointment is for 1-2 years. Starting time is negotiable, but preferably as soon as possible.

Specific inquiries concerning the position should be directed to Nikolaj Scharff, Natural History Museum of Denmark, Section of Entomology, University of Copenhagen, Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark E-mail: nscharff@snm.ku.dk; Phone: +45 35321107.

Application

The application must be in English and submitted online by clicking “Apply online” at <http://www.ku.dk/stillinger/vip/>. The application must include the following appendices:

- * Curriculum vitae with documentation of education
- * Complete publication list
- * Description of previous research experience
- * Contact details of 3 referees.

Applications should be received no later than March 1st, 2013. Application received after the deadline will not be considered.

Terms of appointment and payment in accordance with the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations (AC). Post docs salary is based on seniority and is currently between 31.800 kr. and 33.500 kr. plus pension contribution.

The University of Copenhagen wishes to reflect the diversity of society and welcomes applications from all qualified candidates regardless of personal background.

You can read more about the Natural History Museum at www.snm.ku.dk/english Founded in 1479, the Uni-

versity of Copenhagen is the oldest university in Denmark. With 37,000 students and 9,000 employees, it is among the largest universities in Scandinavia and one of the highest ranking in Europe. The University consists of six faculties, which cover Health and Medical Sciences, Humanities, Law, Science, Social Sciences and Theology.

Nikolaj Scharff, Associate Professor, Curator of Arachnida Department of Entomology Natural History Museum of Denmark Zoological Museum, University of Copenhagen Universitetsparken 15, DK-2100 Copenhagen DENMARK

Tel. +45 35321107 Email. nscharff@snm.ku.dk

Webpage: <http://snm.ku.dk/people/nscharff> Nikolaj Scharff <NScharff@snm.ku.dk>

UCopenhagen Phylogeography

Dear Colleagues,

The Center for Macroecology, Evolution and Climate, University of Copenhagen (Natural History Museum of Denmark and Department of Biology), is accepting applications for postdoc/assistant professor positions in four Biodiversity-related themes, one of which is Phylogeography. The goal of this position is to integrate phylogeographic approaches with macroecology, macroevolution and/or community ecology. Within this broad topic, there is plenty of scope for the candidate to develop their own ideas, as well as build collaborations with other members of the Center. More details can be found here: <http://macroecology.ku.dk/-opportunities.new/> We seek internationally competitive candidates with a strong publication record. We expect strong analytical and data handling skills and the ability to communicate within a cross-disciplinary research center. Competitive salaries are offered.

Inquiries can be made to Professor Carsten Rahbek, e-mail: crahbek@bio.ku.dk The closing date for applications is 15 March.

The center (<http://macroecology.ku.dk/>) is a long-term funded center of excellence with a cross-disciplinary research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth. Researchers at the center currently represent 14 nationalities and the working language is English.

Katharine A. Marske, Ph.D. Postdoctoral Researcher Center for Macroecology, Evolution and Climate Department of Biology University of Copenhagen DK-2100 Copenhagen Ø Denmark

+45 35 32 13 34

<http://macroecology.ku.dk/> KAMarske@bio.ku.dk

UExeter CooperativeBreedingEvol

Job title : Associate Research Fellow Job reference : P44736 Application closing date : 10/03/2013 Location : Cornwall Salary : £24,766 to £26,476 per annum Job category/type : Research Job Description: Centre for Ecology and Conservation, College of Life and Environmental Sciences

The College wishes to recruit an Associate Research Fellow to support the work of Dr Andy Russell. This NERC funded post is available May 1st 2013 to April 30th 2016.

The project will investigate the role of developmental effects in the evolution of cooperative breeding using the chestnut-crowned babbler, a small (50g) endemic bird of outback south-eastern Australia. In particular, novel cross-fostering experiments will be conducted to investigate the role of mothers, fathers, helpers and siblings during different phases of development (egg, nestling and post-fledging stages) on later-life decisions to be altruistic versus selfish.

The postholder will assist with fieldwork for 4-6 months a year for 3 years at Fowlers Gap, New South Wales, Australia, but otherwise be based in the Centre for Ecology and Conservation at the University of Exeter's Cornwall campus. The successful applicant will assist Dr. Russell in all ways necessary to ensure a successful research outcome. Primary amongst the postholder's duties will be to conduct necessary field methods and manage the team of researchers in outback Australia. In addition, the postholder will be responsible for conducting molecular analyses, assisting with statistical analyses and dissemination of the research results. Finally, s/he will be required to present information on research progress and outcomes, communicate complex information, orally, in writing and electronically and prepare proposals and applications to external bodies. A demonstrated ability to work in remote and harsh conditions as well as extensive experience with capturing and handling birds is desirable.

Applicants will possess a relevant PhD and be able to demonstrate sufficient knowledge in the discipline, and of research methods and techniques to work within established research programmes.

To view the Job Description and Person Specification document please go to: <http://admin.exeter.ac.uk/personnel/jobs/P44736.pdf>

Interviews are expected to take place during the week of 18th March 2013.

For further information please contact Dr Andy Russell, e-mail a.russell@ex.ac.uk or telephone (01326) 255936.

HOW TO APPLY FOR THIS POSITION:

Please send your CV, covering letter and the details of three referees, along with a completed application and equal opportunities form to Dr Andy Russell quoting the reference number P44736 in any correspondence.

http://www.admin.ex.ac.uk/personnel/jobs/-app_form.rtf http://www.admin.ex.ac.uk/personnel/jobs/EO_form.rtf

Dr Andy Russell Senior Lecturer in Animal Behaviour Centre for Ecology & Conservation College of Life & Environmental Sciences University of Exeter, Cornwall Campus Penryn TR10 9EZ Tel. 01326 255936

“Russell, Andrew” <A.Russell@exeter.ac.uk>

UExeter EvolutionAntibioticResistance

Research Fellow (Ref. P41336)

Biosciences, University of Exeter

Starting salary will be up to £32,267 at Grade F, depending on qualifications and experience.

For further information please contact Professors Robert Beardmore or Ivana Gudelj e-mail r.e.beardmore@exeter.ac.uk or i.gudelj@exeter.ac.uk

Closing date 19th March 2013

Further particulars:

We wish to recruit a Research Fellow to participate in a collaborative project between microbiologists and mathematicians to better understand the evolution of antibiotic resistance and, guided appropriately by novel theory, to seek methods for controlling it. This EPSRC-funded post is available immediately for a fixed term of

24 months. The successful applicant will work predominantly in the lab of an inter-disciplinary team of mathematical modellers, bioinformaticians and microbiologists producing bespoke evolutionary datasets to determine how bacteria like *E. coli* and *S. aureus* (MRSA) respond to different combinations of antibiotics for prolonged treatments. We are particularly interested in the differences between in vitro and in vivo measures of antibiotic efficacy and why, for but one example, the interaction between vancomycin and rifampin in MRSA is so difficult to determine in the lab. However, the precise nature of the final project will also depend on the key skills and interests of the successful applicant.

The Research Fellow will be required to design and implement microbiological evolution experiments and our preference is for applicants with a background either in molecular microbiology or else a quantitative scientist with experience in an experimental wet lab, for example this may be a physicist with interests appropriate to the post. It will be advantageous to work well with colleagues from different disciplines, but it will be essential to present work at national and international conferences and to write scientific papers both independently and as part of a team.

“Beardmore, Robert” <R.E.Beardmore@exeter.ac.uk>

UFlorida GeneNetworksSpeciation

Drosophila Evolutionary Genomics

We hypothesize that network components and basic structure will be more conserved than individual polymorphisms and more likely to predict phenotypes across species and conditions. We propose to test this hypothesis by identifying both individual polymorphisms and networks and determining the predictive value of each. We will use RNA-seq to measure expression and high throughput phenotyping to measure complex behaviors in *Drosophila* and the effects of ethanol exposure as a model for species differences in and environmental effects on genotype to phenotype maps. This project involves two large association panels in two species (*melanogaster* and *simulans*). Data collection is primarily conducted by our collaborator and this position is primarily for the modeling of the resulting data. However, laboratory and phenotypic collection opportunities are easily available if the applicant is interested.

Qualifications for the position: A PhD and a willingness to be an integral part of a vibrant team. Our

group works highly interactively and co-operation and collaboration are a key component to our success. This position could be filled by a theoretical/modeling scientist who is excited about interactions with empiricists or a scientist with an empirical background who wishes to strengthen their analytical skills. Good writing skills are required. This position is initially for one year and renewable based upon mutual agreement. Salary will be on the NIH payscale and health benefits are included.

The McIntyre lab (<http://bioinformatics.ufl.edu/McIntyre.Lab/>) is a small high energy group where individuals have many opportunities to excel. It is a highly collaborative environment and the team supports each other as we all strive for deeper scientific understanding. The lab is located in the Genetics Institute, a modern building which contains molecular and informatics groups. The Genetics Institute hosts seminars, discussion groups and an annual national conference. A postdoctoral professional development group is active. The University of Florida is in sunny Gainesville where winter is fleeting and the college town is vibrant. Nearby are beautiful wetlands and coastal environments.

To apply please send a CV, a recent reprint, the names of three references and letter of research interests to Lauren McIntyre mcintyre@ufl.edu.

The university of Florida is an equal opportunity employer.

mcintyre@ufl.edu

UGothenburg SpeciationGenomics

6 months position as young researcher in population genomics of speciation

The Centre for Marine Evolutionary Biology, Faculty of Science, University of Gothenburg Centre for Marine Evolutionary Biology (www.cemeb.science.gu.se) is a Swedish centre of excellence linking research in theoretical biology, population genetics, ecological genomics, developmental biology, physiology and ecology. About 50 researchers, postdocs and PhD students work jointly in the programme. CeMEB is funded by the Swedish Science Research Councils (VR and Formas) and the University of Gothenburg during the period 2008-2018.

During the year 2013 the Centre will host Professor Roger Butlin, University of Sheffield, as guest professor. Professor Butlin is an authority in research on hybrid

zones and speciation. We now seek a dedicated young researcher with a PhD degree in the field of population genetics/genomics/bioinformatics to be appointed at CeMEB as a young researcher during 6 months to work closely with Professor Butlin and in collaboration with the CeMEB community.

During his time in Sweden, Professor Butlin will work on local adaptation and the evolution of reproductive isolation in the marine snail *Littorina saxatilis*. The project will make extensive use of data from NGS sequencing, including a new study on hybrid zones between Swedish ecotypes and analysis of existing sRAD and RNAseq data to study genomic differentiation across abrupt environmental boundaries. The de novo genome sequencing of *Littorina saxatilis* is currently nearing completion by the CeMEB consortium. Professor Butlin will work jointly with the CeMEB community in assembling and annotating the genome, as well as combining the genome assembly with a genetic map using sRAD markers. There may also be an opportunity to work with Professor Butlin on a pilot project, probably with a different model organism, aimed at detecting the very first steps in the evolution of reproductive isolation.

Qualifications

The successful applicant should have a PhD in evolutionary genetics, or a related discipline, and either previous experience of working with analyses of high-throughput sequencing data in an evolutionary context or demonstrable willingness and aptitude to develop skills in this area. Experimental, hands-on experience with live organisms and previous work with hybrid zones or speciation processes are desirable but not a requirement. Good communication abilities in written and spoken English are required qualifications.

Starting date

The postdoc period should ideally start in May-June and will last through the summer of 2013 (with the opportunity for a short 2 week holiday).

Practicalities

The position is based at the University of Gothenburg's marine research station at Tjarno (see www.loven.gu.se). There will be a possibility to rent a room (with shower, and common kitchen) at the research station hostel.

For more information contact the postdoc host, Professor Roger Butlin (r.k.butlin@sheffield.ac.uk) or the programme coordinator, Professor Kerstin Johannesson (Kerstin.Johannesson@gu.se).

For information about salaries, appointment rules, etc.

contact the head of the department, Dr Ingela Dahllöf (Ingela.Dahllof@bioenv.gu.se).

Applications should include a CV and a publication list, a letter describing the applicant's earlier experiences and skills, the motivation for applying (one page limit), and the name and contact information for two independent reference persons. The application should be sent by email to Eva.Marie.Rodstrom@gu.se

The application should reach the above address no later than 28th February.

r.k.butlin@sheffield.ac.uk

UHelsinki FungalPathogenEvolution

POST DOC POSITION IN DISEASE ECOLOGY

Applications are invited for a 2-year (with a possibility of continuation) post doc in the research group of Anna-Liisa Laine, part of the Centre of Excellence in Metapopulation Research at the University of Helsinki.

The project is centered on the interaction between host plant *Plantago lanceolata* and its fungal pathogen *Podosphaera plantaginis* in the Åland Islands. With 12 years of epidemiological data from over 4000 host populations, sequenced pathogen transcriptome and solid experimental protocols, this system offers unique opportunities for testing classic hypotheses regarding pathogen evolution with direct links to epidemiological dynamics. Part of the project is overseeing large scale field surveys of the pathogen in the archipelago of Finland. Using this large scale ecological data, there is room to develop the project towards experimental / molecular / theoretical direction depending on the interests of the candidate.

The successful candidate should have PhD / post doctoral experience with host-parasite interactions, and a strong interest in studying disease in natural populations. Excellent written and verbal communication skills, and the ability to think independently and creatively are required. You must demonstrate ability to work as part of a team, and participate in supervision of more junior group members as well as numerous field assistants.

More information: www.helsinki.fi/science/~allaine
www.helsinki.fi/science/metapop Starting date: Summer / Autumn of 2013

Application deadline: 15 March 2013

Mail your application (CV with publications included, contact details of two references, and a letter (MAX 1 page) with a description of your research interests and why you would be a suitable candidate for the project) as a single pdf file to biotiede-mrg@helsinki.fi.

Informal inquires to anna-liisa.laine@helsinki.fi

Anna-Liisa Laine <anna-liisa.laine@helsinki.fi>

ULiverpoolUK InfectionAndEvolution

Post-Doctoral Research Assistant, University of Liverpool £31,331 - £36,298 pa

Population genetics and evolution of bacterial infections

We are seeking an enthusiastic, dedicated individual to investigate the processes that shape the evolution of *Pseudomonas* infections using high-throughput sequence data from clinical samples and laboratory models. You will be able to demonstrate your ability to perform bioinformatic analysis on genomic data to make biological inference. This project represents an exciting opportunity to link evolutionary biology and microbiology, to promote patient health, and to join an excellent genomics research group. You should have a PhD in biology or computational biology with relevant experience. The post is available for 30 months initially, with the possibility of an extension if funding becomes available.

The position will be under the direction of Profs Steve Paterson and Craig Winstanley (UofLiverpool) and Prof Mike Brockhurst (UofYork)

Closing date 15th March, interviews 27th March.

Further particulars and application procedure from: http://www.liv.ac.uk/working/job_vacancies/-research/R-574196.htm Informal enquiries to Steve Paterson s.paterson@liv.ac.uk

– Prof Steve Paterson Institute of Integrative Biology University of Liverpool Liverpool, L69 7ZB, UK Tel +44 151 795 4521 Fax +44 151 795 4408 Mob +44 797 024 7668 s.paterson@liv.ac.uk <http://www.liv.ac.uk/-genomic-research/> S.Paterson@liverpool.ac.uk

UMunich EvolutionaryBehavEcol

UNIVERSITY of MUNICH, Department Biology, Behavioural Ecology RESEARCH ASSOCIATE (Akademischer Rat auf Zeit) For Evolutionary Behavioural Ecology

The Department of Biology at the LMU Munich invites applications for a research associate (Akademischer Rat auf Zeit) to establish a vigorous, independent research group in evolutionary behavioural ecology. We are particularly interested in candidates who want to work with crickets (*Gryllus bimaculatus*, *G. campestris*). We expect an excellent background in behavioural ecology, evolutionary ecology and quantitative genetics. Successful candidates will develop externally funded research programs, direct graduate students, contribute to the teaching mission of the department, and will have the opportunity to get the ?Habilitation? (a German qualification supportive in applications for professorships).

Applicants should submit electronically a complete CV, reprints (pdf-files) of three representative papers and a concise description of current and future research concepts. Applicants should also arrange for at least three letters of reference to be submitted on their behalf to the address below.

The position is available starting June 2014 for up to six years. Initial appointment is for three years. Review of applications will begin March 15, 2013 and continue until the position is filled. For more information contact

Niels Dingemanse Associate Professor of Behavioural Ecology Department of Biology University of Munich (LMU) Grosshaderner Str. 2 D-82152 Martinsried Germany Tel: ++49 89 2180 74 202 Email: n.dingemanse@lmu.de Website: <http://www.behavioural-ecology.bio.lmu.de> Website: http://www.orn.mpg.de/159079/-Research_Group_Dingemanse

The University of Munich is an Equal Opportunity/Affirmative Action Employer and has an affirmative action policy for the disabled.

“Dingemanse, Niels” <ndingemanse@orn.mpg.de>

UNeuchatelSwitzerland QuantGenomicsPlants

2-year Postdoc Position in Plant Adaptation to Environmental Change

Our research group is interested in the factors constraining adaptive evolution in response to environmental change. Our emphases are on environmental stress, genetic correlations among ecologically relevant traits, and links between environmental gradients, adaptive traits and their genomic basis. Our study system is the plant *Arabidopsis lyrata*. We are looking for a Postdoc with interests in plant evolutionary genetics and experience in generating and analyzing whole-genome sequencing or reduced representation sequencing data and linking it to trait variation in an experimental population.

The University of Neuchatel has great indoor and outdoor plant growth facilities and generous resources for genomic analysis. Our Institute of Biology offers a stimulating scientific environment, including a rich spectrum of research activities in life sciences: plant ecology, evolution, physiology and molecular and cell biology. The historic town of Neuchatel overlooks a lake at the base of the Jura Mountains, and is located not far from neighboring universities in Berne and Lausanne. For more information, contact Yvonne Willi (yvonne.willi@unine.ch) or see <http://www2.unine.ch/-biol/> Application packages should include a letter introducing yourself, a curriculum vitae, a research statement describing your accomplishments and the research questions you plan to tackle next using the system and infrastructure laid out above, and the names and addresses of three potential referees. Documents should be submitted as a single PDF file to yvonne.willi@unine.ch. Applications are welcome until the position is filled. First reviewing starts on March 7, 2013.

yvonne.willi@unine.ch

UOxford InsectEvolution

Postdoctoral Research Assistant, Department of Zoology, University of Oxford Grade 7: £29,541 - £36,298 with a discretionary range to £39,649 p.a. Fixed-term contract for 3 years Deadline for applications: 12 noon GMT, 19 February, 2013.

Applications are invited for a postdoctoral research assistant position with Professor Charles Godfray in the Department of Zoology of the University of Oxford. We are a small research group using aphids to answer broad questions in ecology and evolution. The successful candidate will become a member of a large department in Oxford studying many aspects of whole-organism biology.

We seek a postdoctoral researcher to work on a NERC-funded project on the evolutionary ecology of insect-bacterial interactions for three years. Specifically, the project involves studies of the facultative endosymbionts of aphids. These micro-organisms are found in some but not all aphid clones and often provide particular benefits to their hosts. The project involves understanding the ecology and evolution of bacteria that protect the aphid from attack by fungal pathogens. The work will involve laboratory and field experiments, and comparative molecular studies to look for the underlying mechanism. The project is supported by a research technician.

We seek a scientist with a PhD or equivalent and with relevant experience in evolutionary ecology. The ability to conduct routine molecular biological methods is essential and further molecular and bioinformatic skills are desirable but training will be provided if needed. Experience with insect culturing and field experimentation is also desirable. The ability to work both collaboratively and without supervision, as well as good people management skills, is important.

Further details are available by searching for the job ID 106354 at <https://www.recruit.ox.ac.uk> Informal enquiries can be made through charles.godfray@zoo.ox.ac.uk.

ailsa.mclean@gmail.com

URochester **SpeciationGeneticsGenomics**

Postdoctoral position in speciation genetics/genomics

A NIH-funded postdoctoral position is available in the

laboratory of Daven Presgraves in the Department of Biology at the University of Rochester. The projects combine genetics and genomics approaches to study the special role of sex chromosomes during complex speciation between three closely related *Drosophila* species. The ideal candidate will have training in bioinformatics, molecular biology, and/or evolutionary genetics.

The Department of Biology at the University of Rochester offers a rich intellectual environment, with a strong research focus on evolutionary genetics and speciation. Applicants should email a brief cover letter, a pdf of their current CV, and the names and contact information for 2-3 references to daven.presgraves@rochester.edu. Review of applications will begin immediately and continue until the position is filled.

For more information, visit the Presgraves lab website (<http://blogs.rochester.edu/PresgravesLab/>) or contact via email.

The University of Rochester is an Equal Opportunity Employer.

Daven Presgraves Associate Professor Department of Biology University of Rochester Rochester, NY 14627 U.S.A.

office: (585) 275-8946 FAX: (585) 275-2070
email: daven.presgraves@rochester.edu lab web-
page: <http://blogs.rochester.edu/PresgravesLab/>
daven.presgraves@rochester.edu

USouthCarolina **CropGenomicDiversity**

Postdoctoral position in crop genomic diversity

A postdoctoral position on genomic approaches to plant diversity and crop improvement is available in the laboratory of Stephen Kresovich at University of South Carolina (Columbia, SC). The successful candidate will join an interdisciplinary team of computational, laboratory, and field-based scientists studying sorghum, sugarcane, and related C4 crops in the context of food security, bioenergy, and health effects.

The successful candidate will have the opportunity to develop independent research objectives building on ongoing high-throughput data generation and an established network of international collaborators (e.g. <http://www.pnas.org/content/110/2/453.long>). Po-

tential project areas include (1) population genomics of global crop diversity, (2) quantitative genomics of agronomic and adaptive traits, (3) comparative genomics of C4 grasses, and (4) functional genomics of metabolic and developmental networks.

The candidate should be highly motivated in research and have a strong interest in broader impacts. The qualified candidate will have completed a PhD in genomics, bioinformatics, or related field with experience analyzing high-throughput data and proven skills in at least one programming language.

For more information contact Stephen Kresovich (sk@mailbox.sc.edu)

Stephen Kresovich

SmartState Endowed Chair of Genomics Department of Biological Sciences University of South Carolina 715 Sumter Street Columbia, SC 29208

USouthernCalifornia ComputationalGenomics

We are seeking two or more Computational/Analytic postdoctoral researchers with experience and strong computational skills in one or more of the following areas: machine learning, computer vision, agent-based simulation, graphical processing unit (GPU) programming, Bayesian statistics and bioinformatics, population genomics, quantitative genomics. We are a large multidisciplinary team, 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. The postdocs will be jointly advised by Simon Tavaré, Gary Chen, Paul Marjoram and Sergey Nuzhdin, and will closely collaborate with several other faculty and approximately 30 other team members, including computational and experimental scientists. We combine multiple data sets, including genomic, transcriptomic, metabolomic, and whole organism phenotypes, and we are processing videos of multiple individuals in groups, tracking their movements and developing simulation-based analytical methods to study genetic variation in social processes. The successful applicants may variously need to optimise software, develop machine learning algorithms, develop conceptual or simulation models, and parallelise these on CPUs or GPUs.

We are a 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. Please send a statement of interest, CV, and names of referees to Paul Marjoram pmarjora@usc.edu and Sergey Nuzhdin snuzhdin@usc.edu by Feb 15th.

brfoley76@gmail.com

USouthernDenmark BacterialEvolution

Postdoctoral Position in Microfluidics, Evolutionary Demography and Individual Variability of Bacteria The Department of Biology and Max-Planck Odense Centre on the Biodemography of Aging, University of Southern Denmark is looking for a highly talented, creative, independent, and motivated postdoctoral fellow to join our newly established lab on evolutionary demography. The project aims at our understanding of evolution of individual variability of isogenic *E. coli* bacteria by collecting demographic data using life imaging and a high-throughput microfluidics device.

The lab has an international and multidisciplinary character. The position is available from spring/summer 2013 for initially one year, with extensions of up to three years. Odense is a lively and youthful historical city on Funen, with a bustling social scene. It is little more than an hour away from Copenhagen.

Qualifications:

We are looking for a highly motivated candidate with a PhD degree in microfluidics, molecular biology, microbial biology, ecology, evolution, and a sound interest in demography, quantitative biological methods and experimentation. Experiences in some of the following fields of cell culturing, molecular manipulation, microscopy, image analysis, microfluidics, molecular transformations, quantitative analyses, or mathematical modelling are a plus. A strong motivation in acquiring some of these skills is expected. Excellent communication skills and an ability to interact socially and scientifically with other laboratory members and collaborators are essential. The working language is English.

The successful applicant will be employed in accordance with the agreement between the Ministry of Finance and AC (the Danish Confederation of Professional Associations).

The application must include the following: * A cur-

riculum vitae including information on previous employment and teaching experience. * A full list of publications stating the scientific publications on which the applicant wishes to rely. * A list of all enclosures Each enclosure must be marked with the applicant's name

To qualify you must have passed a PhD or equivalent. Applications will be assessed by an expert assessor/committee. Applicants will be informed of their assessment by the university.

The University encourages all interested persons to apply, regardless of age, gender, religious affiliation, or ethnic background.

Please send the application, marked "job ID 13307", including enclosures by e-mail (in Adobe PDF format alternatively Word 2003 or newer format) to pers@sdu.dk

Do not hesitate to contact Associate Professor Ulrich Steiner for further information at usteiner@biology.sdu.dk, or visit <http://www.sdu.dk/-staff/usteiner>. Application deadline is 13 March 2013 at 12 o'clock noon. The posting on the university website is found here: http://www.jobs.sdu.dk/-vis_stilling.php?id=7964&lang=da Ulrich Steiner Associate Professor

Institute of Biology and Max-Planck Odense Center on the Biodemography of Aging, MaxO University of Southern Denmark

Campusvej 55, 5230, Odense, Dk +45 65 50 2753
usteiner@biology.sdu.dk www.sdu.dk/staff/usteiner
 Ulrich Steiner <usteiner@biology.sdu.dk>

UStrasbourg PrimateSocialNetworks

Postdoctoral position opportunity on Social Networks in Primates

*Project: **Social networks as a trade-off between optimal decision-making, information transmission and reduced disease transmission*

**

*Hiring Organization**: USIAS - University of Strasbourg Institute for Advanced Study < <http://www.usias.fr/en/> >*

**

Supervisors: Cédric Sueur and Andrew MacIntosh

*Date Posted**: 2013-01-02*

**

*Position Description**: *full-time Post-doctoral researcher position (24 months) to investigate the mechanisms underlying information and disease transmission in nonhuman primates. The successful candidate is expected to spend a considerable amount of time observing and conducting behavioural experiments on groups of Japanese macaques in Japan and modelling artificial social networks in order to elucidate how the structure of the social network can influence the speed of information and disease transmission. *

*

*Qualifications/Experience**: *Required: we invite applications from researchers holding (or expecting to obtain prior to August 2013) a PhD in Biology/Anthropology with a strong expertise in SNA, primate behaviour and/or disease transmission. Previous experience analyzing behavioural and diffusion/social data will be highly advantageous. Applicants should be proficient in written and spoken English, have excellent social skills, and be able to work both independently and in a large, interdisciplinary team.

Beneficial: Modelling, field work experience, basic knowledge of French and Japanese**

**

*Salary/funding**: *The salary will be in accordance with French national regulations for post-doctoral researchers and amounts to ca. 3996euros per month (gross, i.e. ca. 2200euros net basic salary).**

**

*Support provided for positions**: *One national and one international Congress per year, 1 return Airfare France-Japan**

**

*Term of Appointment**: *The initial appointment will be for 2 years and will begin on 1 August/September 2013. **

**

*Application Deadline**: *1 April 2013**

**

*Comments**: *Applications consisting of a cover letter stating research experience and interests, a detailed curriculum vitae, and the names and e-mail addresses of two referees can be sent electronically to Dr. Cédric Sueur, cedric.sueur@iphc.cnrs.fr.

**

Contact Information: *Cédric Sueur

cedric.sueur@iphc.cnrs.fr

**

Website: *Cédric Sueur (leader of social network analysis and modelling): <http://www.iphc.cnrs.fr/-Cedric-Sueur-.html> Andrew MacIntosh: <http://www.cicasp.pri.kyoto-u.ac.jp/people/andrew-macintosh> **

E-mail Address: *cedric.sueur@iphc.cnrs.fr

**

Ethologie Evolutive < <http://www.iphc.cnrs.fr/Ethologie-evolutive-.html> >; Département d'Ecologie, Physiologie et Ethologie; Institut Pluridisciplinaire Hubert Curien < <http://www.iphc.cnrs.fr/-DEPE-.html> >; 23, rue Becquerel f-67087 Strasbourg Cedex France

Summary of the Project

Although living in groups has many advantages, it also involves certain disadvantages such as increased disease transmission and the need to make collective decisions. In theory, the social network properties optimizing decision accuracy and the spreading of information should also increase the disease transmission rate, creating a trade-off between decision-making efficiency and infection risk. We aim to explore this trade-off by examining social network properties and investigating how they might interact to maximize decision accuracy and minimize infection risk. We propose an evaluation of this trade-off in non-human primates using both experimental and theoretical approaches.

The project is innovative and multidisciplinary because it compares information versus disease transmission and combines observation and experimentation with modelling. Our approach is designed to highlight mechanisms underlying decision accuracy and disease transmission, with social networks reflecting a trade-off between these variables. In particular, although information and disease flow networks have been independently studied before, this study aims to directly investigate the costs and benefits of social networks for a specific optimization of this trade-off in diverse species groups. This work thus extends previous pioneer projects into revolutionary new areas.

Cédric Sueur Maître de Conférences, Associate Professor

cedric.sueur@iphc.cnrs.fr / csueur@ulb.ac.be phone: +33(0)388107453 fax: +33(0)388107456 <https://sites.google.com/site/cedricsueuranimalbehaviour/>

Ethologie Evolutive DEPE, IPHC, UDS-CNRS UMR7178 23, rue Becquerel

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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>

UTexas HumanPopulationGenomics

Postdoctoral Position in Native American Genomic Diversity/Population History

The Molecular Anthropology Laboratory at the University of Texas at Austin invites applications for a post-doctoral researcher to study genetic diversity in contemporary and ancient Native Americans. This research is part of a funded project investigating the impact of European contact on Native American genomic diversity and disease prevalence. Responsibilities will include the generation and analysis of genomic data, manuscript preparation, and helping to mentor graduate and undergraduate students involved in the project. The position includes a competitive salary and benefits and is available for at least one year, with the possibility of extension.

Candidates must have completed a Ph.D. in anthropology, evolutionary biology, or a relevant discipline within the biological sciences prior to starting the position. Candidates should have a record of successful publishing in scientific journals, and excellent analytical and communication skills are required. Preference will be given to candidates with a background in population genetics, genomics, and/or ancient DNA, or who have experience analyzing next-generation DNA sequence data or genome-wide population genetic data.

Please direct inquiries to Dr. Deborah Bolnick (deborah.bolnick@austin.utexas.edu). To apply for the position, please send an email to Dr. Bolnick with a current CV, 1-page statement of research interests and qualifications, PDF of one relevant publication, and a list of three people (including name, affiliation, and email address) who can serve as references. Review of applications will begin on February 25, 2013, and the position will remain open until filled by a suitable candidate. Start date is negotiable but no later than June 2013.

The Molecular Anthropology Laboratory at the University of Texas at Austin is affiliated with the Department of Anthropology (<http://www.utexas.edu/cola/-depts/anthropology>) and the Population Research Center (<http://www.utexas.edu/cola/centers/prc>).

The University of Texas is an affirmative action, equal opportunity employer.

Deborah A. Bolnick, Ph.D. Assistant Professor Department of Anthropology University of Texas at Austin 2201 Speedway, Stop C3200 Austin, TX 78712-1723

Office: (512) 471-7532 Lab: (512) 471-2781 or (512) 232-4139 Email: deborah.bolnick@mail.utexas.edu

deborah.bolnick@austin.utexas.edu

UUppsala Bioinformatics

Uppsala University hereby declares the following position to be open for application:

Postdoctoral Researcher in Bioinformatics (*UFV-PA*2013/366*)*

at the Animal Ecology Program, the Department of Ecology and Genetics, Evolutionary Biology Centre (EBC) with starting date being April 1st, 2013, or as soon as possible after this date. The EBC hosts one of the world's largest aggregations of evolutionary biologists, and is a prime research environment for a wide range of fields in evolutionary biology and genetics (see "<http://www.ebc.uu.se/>" for more information). We also form an integrated part, together with other centers within Uppsala University as well as with those at three other universities, of SciLife-Lab. SciLifeLab is a very large center for large-scale biosciences, combining advanced technical know-how and state-of-the-art equipment with a broad knowledge in translational biology, medicine and molecular bioscience. Integrated platforms in genomics, comparative genetics, proteomics, bioinformatics, functional biology, bioimaging and functional genomics are employed in various scientific domains. Bioinformatic work is performed primarily through the UPPMAX / UPPNEX computing facility.

Our working atmosphere is very international with English as our operational language. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes with train from Stockholm.

*Brief research outline: **The holder of this position will assist and direct a project aiming towards the de novo assembly of a beetle (Coleoptera) which is a major model organism. The project represents a challenging

de novo effort in its true sense: despite the fact that about 25% of all described metazoan species are beetles, the genome of only a single beetle species has yet been described. Thus, the availability of reference genomes is limited. Large amounts of NGS data is already at hand. The holder of this position will lead and perform the bioinformatic work towards assembly, quality assessment and annotation of the genome. The holder will be expected to be able to work independently, but will be an integrated part of both an in-house interactive research group working empirically with this model system (about 10 people), a larger bioinformatic network at the EBC and in Uppsala (*SciLifeLab*UPPNEX / WABI*) and with international collaborators.**The position is funded by the European Research Council and the Swedish Research Council. **

Salary and appointment: The period of appointment is two years. Uppsala University adopts an individual salary policy but the starting salary for postdoctoral researchers is typically about 31.000 SEK per month and includes full social benefits.

Eligibility:The successful candidate must have a Ph.D, or an exam which is judged comparable to a PhD, that was completed within three years of the start of the employment. Applicants that received their PhD earlier than this date will be considered only if special circumstances exist (such as prolonged periods of illness, parental leave, military service, union duties and others of similar character).

Qualifications and merits: The ideal candidate has a documented expertise in bioinformatic research, using bioinformatic tools and software. Previous experience of /de novo/ genome assembly is highly desirable, as is experience of working with different types of genomic data (e.g., Illumina, SOLiD).**

To apply:Candidates should submit a short cover letter, a curriculum vitae including a list of publications and a short (1-2 pages) description of their experience, past research accomplishments and future research ambitions. Applicants should also include names and e-mail addresses of two referees and should specify the date they will be available to start the position.

*For further information*about the position, please contact the PI of the group: Professor Göran Arnqvist (phone +46 18 471 2645, e-mail Goran.Arnqvist@ebc.uu.se). The trade union representatives are Anders Grundström, Saco (the Swedish Confederation of Professional Associations), phone +46 18 471 5380, Carin Söderhäll, TCO/ST (the Swedish Confederation of Professional Employees), phone +46 18 471 1996, and Stefan Djurström, Seko (the Union of Service and Communication Employees),

phone +46 18 471 3315.

*You are welcome*to submit your application no later than *April 10,* *2013 (UFV-PA 2013/366)*. Please use the links below for access to an on-line application portal:

<http://www.uu.se/jobb/others/-annonsering?languageId=1&tarContentId=234439>

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UWisconsin Madison GeneFlow

The laboratory of Dr. Johanne Brunet in the department of Entomology at the University of Wisconsin in Madison has a postdoctoral associate position available immediately. The position is for 13 months with possibility of renewal for a second year. The position is limited to U.S. citizens. The research in the Brunet laboratory examines gene flow and the role of distinct pollinators in moving genes over the landscape. Expertise with statistical analyses is required and knowledge of R is desirable. Previous experience working with plants and/or pollinators and using molecular markers and/or genomics is needed. More information on the laboratory can be found at “www.entomology.wisc.edu/-faculty” or “labs.russell.wisc.edu/brunet”. Contact Dr. Johanne Brunet at jbrunet@wisc.edu for more information. If you are interested in the position please send your CV with the names and contact information of three references. Thank you.

Dr. Johanne Brunet USDA-ARS VCRU Associate Professor Dept. of Entomology University of Wisconsin Madison, WI 53706 (608) 265- 3587

Johanne Brunet <jbrunet@wisc.edu>

U Zurich PlantEvolution

Post-doctoral position in Elena Conti’s Lab at the University of Zurich

***_Position description_*:** A post-doctoral position is available in Prof. Elena Conti’s lab at the University of Zurich to study the *evolution of the plant genus /Limonium/ in Macaronesia**. The main goal of the project is to generate a species phylogeny from multiple gene trees and use it to infer patterns and processes of colonization and diversification in island archipelagos. The macroevolutionary perspective will also be combined with data from the ecology and distribution of the species and their reproductive biology to achieve an integrated vision of island diversification in this group. The position is available at the 50% to 100% level of employment for a minimum of two years, which can be extended to at least a third year upon satisfactory performance. Several options to obtain complementary funding are available and the successful applicant is expected to apply for grants independently or contribute to grant applications. Salaries at the University of Zurich are very competitive.

***_Available material and background_*:** Extensive geo-referenced collections of all species of /Limonium/ from Macaronesia are available as silica gel-dried leaf tissue and as seeds; several species are also cultivated in our greenhouses. Population genetic and reproductive biological studies are under way on selected species, including /L. perezii/, endemic to Tenerife, but moderately invasive in California. These investigations provide a rich background for the proposed phylogenomic study.

***_Applicant qualifications_*:** The successful applicant is expected to: (i) have prior experience using Next Generation Sequencing platforms; (ii) develop a pipeline for the generation of high-throughput phylogenomic data in a group with no reference genome; (iii) have prior experience or strong interest in methods for the inference of species trees from multiple gene trees; (iv) have prior experience in and/or be committed to actively seeking additional funding via the submission of grant proposals to relevant agencies. Interest and/or experience in island plants or island biogeography are highly desirable. Fluency in English is expected.

***_How to apply_*:** If interested, please submit your application to Elena Conti (ContiElena@access.uzh.ch) AS A SINGLE PDF FILE containing: *1)* a detailed /Curriculum Vitae/ with publication list, successful grants to your name, and the names and email addresses of three referees who can comment on your expertise; *2)* a short letter (2 pages max.) explaining why you are interested in applying for this position, your specific qualifications for this project and potential research directions you would like to explore. The call for applications is open as of *February 18, 2014* and will close as soon as a suitable candidate is selected. ***Starting date*:** as soon as possible. ***_Questions_*?** If

you have any questions, please contact Elena Conti by email: ContiElena@access.uzh.ch

Barbara Keller <barbara.keller@systbot.uzh.ch>

UZurich PlantEvolution 2

****Post-doc in Zurich: call opens February 18, 2013***
Please, find below the corrected call for the post-doctoral position in Zurich with the CORRECT opening date for the call on February 18, 2013. Please, disregard previous posting, which contained the wrong date for the call opening.

Post-doctoral position in Elena Conti's Lab at the University of Zurich*

***_Position description_*:** A post-doctoral position is available in Prof. Elena Conti's lab at the University of Zurich to study the *evolution of the plant genus /Limonium/ in Macaronesia**. The main goal of the project is to generate a species phylogeny from multiple gene trees and use it to infer patterns and processes of colonization and diversification in island archipelagos. The macroevolutionary perspective will also be combined with data from the ecology and distribution of the species and their reproductive biology to achieve an integrated vision of island diversification in this group. The position is available at the 50% to 100% level of employment for a minimum of two years, which can be extended to at least a third year upon satisfactory performance. Several options to obtain complementary funding are available and the successful applicant is expected to apply for grants independently or contribute to grant applications. Salaries at the University of Zurich are very competitive.

***_Available material and background_*:** Extensive georeferenced collections of all species of /Limonium/ from Macaronesia are available as silica gel-dried leaf tissue and as seeds; several species are also cultivated in our greenhouses. Population genetic and reproductive biological studies are under way on selected species, including /L. perezii/, endemic to Tenerife, but moderately invasive in California. These investigations provide a rich background for the proposed phylogenomic study.

***_Applicant qualifications_*:** The successful applicant is expected to: (i) have prior experience using Next Generation Sequencing platforms; (ii) develop a pipeline for the generation of high-throughput phylogenomic data in a group with no reference genome; (iii)

have prior experience or strong interest in methods for the inference of species trees from multiple gene trees; iv) have prior experience in and/or be committed to actively seeking additional funding via the submission of grant proposals to relevant agencies. Interest and/or experience in island plants or island biogeography are highly desirable. Fluency in English is expected.

How to apply*:** If interested, please submit your application to Elena Conti (ContiElena@access.uzh.ch) AS A SINGLE PDF FILE containing: ***1 a detailed /Curriculum Vitae/ with publication list, successful grants to your name, and the names and email addresses of three referees who can comment on your expertise; ***2*** a short letter (2 pages max.) explaining why you are interested in applying for this position, your specific qualifications for this project and potential research directions you would like to explore. The call for applications is open as of ***February 18, 2013*** and will close as soon as a suitable candidate is selected. ***Starting date*:** as soon as possible. ***_Questions_*?** If you have any questions, please contact Elena Conti by email: ContiElena@access.uzh.ch

Barbara Keller <barbara.keller@systbot.uzh.ch>

Uchicago ComputationalPopulationGenomics

Postdoctoral Position in regulatory genomics at University of Chicago

A position is available for a highly motivated postdoctoral researcher in the group of Barbara Stranger at The University of Chicago, in the Section of Genetic Medicine, and the Institute of Genomics and Systems Biology.

The researcher will be involved in analysis of a variety of types of human genomics data, including DNA-Seq, RNA-Seq, SNPs, DNA methylation, etc. Current research in the lab includes (1) transcriptional network and pathway analysis; (2) comparative and population genomics; (3) functional genomic data integration, management, and extensive data mining; and (4) detection of disease susceptibility genes/networks. Project topics include understanding the role of genetic and epigenetic variation on transcriptional regulation in healthy human cohorts, the contribution of that variation to higher order phenotypes including immune-mediated diseases and cancer, and elucidation of the

evolutionary forces shaping functional variation in humans.

We seek applicants who are creative, curious, enthusiastic, and can work independently. Applicants should have strong computational or statistical skills, with a demonstrated interest in biological applications. A background in genomics or population genetics is preferred.

To formally apply, please send the following in PDF format to Barbara Stranger (bstranger at uchicago dot edu):

1. A curriculum vitae, including names of 3 referees.
2. A brief statement describing current and future research goals

Our lab website is currently under construction, but informal inquiries are welcome.

Barbara E. Stranger, PhD Assistant Professor of Medicine Department of Medicine, Section of Genetic Medicine Institute for Genomics and Systems Biology University of Chicago

tel: 773-702-4301 fax: 773-702-2567

bstranger@medicine.bsd.uchicago.edu

Uppsala EvolutionEpistasis

Post-doc: Understanding the contribution of epistasis to phenotypic robustness

The Computational Genetics section at the Department of Clinical Sciences, SLU, Uppsala, Sweden focus on deepening our understanding of the genetic mechanisms involved in adaption. By developing new genetic models, statistical methods, computational algorithms and bioinformatics tools, and applying these to a wide range of biological datasets from model-organisms, plants and animals to humans, we seek to provide novel insights to the contribution of genetics in general and genetic interactions (epistasis) in particular to phenotypic change over time.

This Post-doc project is part of an ongoing effort to understand the genetic regulation of between-genotype variance heterogeneity. This type of genetic regulation has recently become a hot topic in genetics and is this far relatively unexplored. It has a central role in phenotypic robustness and could be due to a multitude of underlying factors including epistasis and gene-

by-environment interactions. We are currently in the process of developing a number of statistical and computational methods and tools to explore the extent of genetic variance-heterogeneity in experimental datasets from model-organisms, plants, animals and humans. The post-doctoral researcher joining this project will, depending on the background, competence and interest, be involved in either i) the implementation and/or testing of newly developed methods in simulated and experimental datasets, ii) use the already available methods to explore the extent of genetic variance-control in experimental data and the potential contribution of epistasis to the detected signals, iii) explore the potential contribution of genetic variance-control and epistasis to phenotypic robustness in experimental data, or a combination of all three topics.

As the project is highly interdisciplinary, researchers with different backgrounds both within and across traditional scientific disciplines work closely together on a daily basis. We therefore have no formal requirement on your background, but to be considered for the post, we do expect that you have a sincere interest in the topic, a relevant scientific education (Ph.D. degree or similar) and an interest in Quantitative-, Population- and Evolutionary Genetics. A strong mathematical / statistical background and programming experience is an advantage.

To learn more about us, you could visit <http://www.computationalgenetics.se> or contact Örjan Carlborg (orjan.carlborg@slu.se). If you are interested in being considered for the post, please send us a short description of how you feel that you can contribute to this interdisciplinary work together with a CV and a list of your previous publications. We look forward to hear from you!

Salary and conditions of future employment(s) are under the terms of the current agreement for academic scientists employed in the public sector. The position is initially for one year, with a potential extension for a second year. It will remain open until a suitable candidate has been found. Positions can start 1 April, 2013 at the earliest.

Selected publications:

Carlborg, Ö. and Haley, C. Epistasis: too often neglected in complex traits studies? *Nature Reviews Genetics* 2004 5:618-625.

Carlborg, Ö., Jacobsson, L., Åhgren, P., Siegel, P., Andersson, L. Epistasis and the release of genetic variation during long-term selection. *Nature Genetics* 2006 38:418-20.

Le Rouzic, A., Siegel, P. and Carlborg, . Phenotypic

Evolution from Genetic Polymorphisms in Radial Network Architectures. *BMC Biology* 2007, 5:50.

Alvarez-Castro, J., le Rouzic, A. and Carlborg, Ö. How to perform meaningful estimates of genetic effects. *PLOS Genetics* 2008 May 2; 4(5):e1000062 Le Rouzic, A., Alvarez-Castro, J. and Carlborg, Ö. Dissection of the genetic architecture of body weight in chicken reveals the impact of epistasis on domestication traits. *Genetics* 2008 179:1591-1599.

Johansson AM, Pettersson ME, Siegel PB, Carlborg Ö (2010) Genome-Wide Effects of Long-Term Divergent Selection. *PLoS Genet* 6(11): e1001188. doi:10.1371/journal.pgen.1001188

Pettersson, M.E., Besnier, F., Siegel, P. and Carlborg, Ö. 2011. Replication and explorations of high-order epistasis using a large Advanced Intercross Line pedigree. *PLOS Genetics*, Jul;7(7):e1002180.

Shen, X., Pettersson, M., Rönnegård, L. and Carlborg, Ö. Inheritance beyond plain heritability: variance-controlling genes in *Arabidopsis thaliana*. *PLoS Genetics* 2012 8(8):e1002839. Epub 2012 Aug 2.

Pettersson, M., Nelson, R. and Carlborg, Ö. Selection on variance-controlling genes - adaptability or stability. *Evolution* 2012 12:3945-3949.

Orjan.Carlborg@slu.se

UppsalaSweden EpistasisRobustness

Post-doc position on understanding the contribution of epistasis to phenotypic robustness

The Computational Genetics section at the Department of Clinical Sciences, SLU, Uppsala, Sweden focus on deepening our understanding of the genetic mechanisms involved in adaption. By developing new genetic models, statistical methods, computational algorithms and bioinformatics tools, and applying these to a wide range of biological datasets from model-organisms, plants and animals to humans, we seek to provide novel insights to the contribution of genetics in general and genetic interactions (epistasis) in particular to phenotypic change over time.

This Post-doc project is part of an ongoing effort to understand the genetic regulation of between-genotype variance heterogeneity. This type of genetic regulation has recently become a hot topic in genetics and is this far relatively unexplored. It has a central role

in phenotypic robustness and could be due to a multitude of underlying factors including epistasis and gene-by-environment interactions. We are currently in the process of developing a number of statistical and computational methods and tools to explore the extent of genetic variance-heterogeneity in experimental datasets from model-organisms, plants, animals and humans. The post-doctoral researcher joining this project will, depending on the background, competence and interest, be involved in either i) the implementation and/or testing of newly developed methods in simulated and experimental datasets, ii) use the already available methods to explore the extent of genetic variance-control in experimental data and the potential contribution of epistasis to the detected signals, iii) explore the potential contribution of genetic variance-control and epistasis to phenotypic robustness in experimental data, or a combination of all three topics.

As the project is highly interdisciplinary, researchers with different backgrounds both within and across traditional scientific disciplines work closely together on a daily basis. We therefore have no formal requirement on your background, but to be considered for the post, we do expect that you have a sincere interest in the topic, a relevant scientific education (Ph.D. degree or similar) and an interest in Quantitative-, Population- and Evolutionary Genetics. A strong mathematical / statistical background and programming experience is an advantage.

To learn more about us, you could visit <http://www.computationalgenetics.se> or contact Örjan Carlborg (orjan.carlborg@slu.se). If you are interested in being considered for the post, please send us a short description of how you feel that you can contribute to this interdisciplinary work together with a CV and a list of your previous publications. We look forward to hear from you!

Salary and conditions of future employment(s) are under the terms of the current agreement for academic scientists employed in the public sector. The position is initially for one year, with a potential extension for a second year. It will remain open until a suitable candidate has been found. Positions can start 1 April, 2013 at the earliest.

Selected publications:

Carlborg, Ö. and Haley, C. Epistasis: too often neglected in complex traits studies? *Nature Reviews Genetics* 2004 5:618-625.

Carlborg, Ö., Jacobsson, L., Åhgren, P., Siegel, P., Andersson, L. Epistasis and the release of genetic variation during long-term selection. *Nature Genetics* 2006

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Le Rouzic, A., Siegel, P. and Carlborg, . Phenotypic Evolution from Genetic Polymorphisms in Radial Network Architectures. *BMC Biology* 2007, 5:50.

Alvarez-Castro, J., le Rouzic, A. and Carlborg, Ö. How to perform meaningful estimates of genetic effects. *PLOS Genetics* 2008 May 2; 4(5):e1000062 Le Rouzic, A., Alvarez-Castro, J. and Carlborg, Ö. Dissection of the genetic architecture of body weight in chicken reveals the impact of epistasis on domestication traits. *Genetics* 2008 179:1591-1599.

Johansson AM, Pettersson ME, Siegel PB, Carlborg Ö (2010) Genome-Wide Effects of Long-Term Divergent Selection. *PLoS Genet* 6(11): e1001188. doi:10.1371/journal.pgen.1001188

Pettersson, M.E., Besnier, F., Siegel, P. and Carlborg, Ö. 2011. Replication and explorations of high-order epistasis using a large Advanced Intercross Line pedigree. *PLOS Genetics*, Jul;7(7):e1002180.

Shen, X., Pettersson, M., Rönnegård, L. and Carlborg, Ö. Inheritance beyond plain heritability: variance-controlling genes in *Arabidopsis thaliana*. *PLoS Genetics* 2012 8(8):e1002839. Epub 2012 Aug 2.

Pettersson, M., Nelson, R. and Carlborg, Ö. Selection on variance-controlling genes - adaptability or stability. *Evolution* 2012 12:3945-3949.

Orjan.Carlborg@slu.se

UppsalaU EvolutionMulticellularity

* Postdoc position '**Multilevel selection in filamentous fungi: a clue to the evolution of multicellularity**' at Uppsala University, Sweden*

A fully-funded 1-year postdoctoral research position (with the high probability for a second year) is currently available at the Department of Evolutionary Biology, Uppsala University, Sweden.

The theory of evolution by natural selection is one of the cornerstones in modern biology. There is, however, considerable debate about which entities (ranging from genes, cells and individuals, to populations, species and species groups) are the units of selection. Natural selection acting at different levels is expected to drive the aggregation of smaller independent units to form new, more complex, layers of biological organization. For

example, this process is expected to have driven the evolution of multicellularity, whereby the interaction between genes and cells resulted in a fitness increase in multicellular organisms compared to unicellular organisms. This post-doc project involves the study of multilevel selection in filamentous ascomycetes. These organisms may be considered intermediates between unicellular and multicellular organisms because of their totipotent and free ranging heterogeneous nuclei within a mycelium, all of which contributes to the phenotype of the mycelium. The candidate will perform artificial selection experiments combined with genomics and transcriptomics of the model system *Neurospora* to investigate whether the mycelium represents a case of cooperation or conflict between the haploid nuclei it contains. Under the scenario of cooperation we expect to observe inter-nucleus dynamics that are typical of those observed within diploid nuclei, such as sheltering of *de novo*/ deleterious mutations and dosage compensation, and the combination of adaptive mutations of the heterogeneous nuclei should be beneficial for the mycelium. A next step is to test for kin selection by investigating the outcome of interactions between nuclei exhibiting different degrees of relatedness. On the other hand, under the conflict scenario, heterogeneous mycelia would be at a fitness disadvantage due to antagonism among nuclei. The results of the evolutionary interactions occurring at subcellular and higher levels emerging from this project have the potential to contribute significantly to our understanding of one of the major evolutionary transitions - the evolution of multicellularity.

Applicants should have a PhD in biology/ecology and a strong interest in biology and evolution. Experience in experimental lab skills as well as some knowledge in bioinformatics are advantageous. Mathematical skills and an interest to develop theoretical models are welcome but entirely optional. The candidate will join the research group of Simone Immler (see <http://www.ebc.uu.se/forskning/IEG/evbiol/-forskning/Immler/>) located at EBC. The current research focus of the Immler lab lies on the evolutionary consequences of sex, in particular the evolution of gametes and the consequences of differential selection between the haploid and diploid phases of the eukaryotic life cycle using experimental and mathematical tools. This project will be in close collaboration with the group of Hanna Johannesson, (http://www.ebc.uu.se/forskning/IEG/evbiol/personal/sidor/_Hanna_Johannesson/_) also located at EBC. The Johannesson lab has its research focus on the evolution of mating systems and the underlying genetics in filamentous fungi. The project

is announced in combination with a PhD position on sexual dimorphism, and there are ample opportunities to work closely with postdocs and PhD students in the Immler and Johannesson lab that focus on related projects. The working atmosphere is international with English as working language. EBC constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, with research programs including ecology, systematics, genetics, genomics, and developmental biology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes by train from Stockholm.

***Important dates:** *The application deadline for the position is the 28th of February 2013, and the starting date as soon as possible thereafter or as agreed upon.

***Applications should include:** *1) letter of interest / background (2 pages max); 2) complete CV; 3) the names and e-mail addresses of three referees.

Applications should be sent by e-mail to Simone.Immler@ebc.uu.se. Alternatively, send hardcopies to the following address: Simone Immler,

— / —

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>

UppsalaU EvolutionaryBiology

The Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University invites applications for 2 Departmental postdoctoral fellows in ecology, evolutionary biology, or genetics, broadly defined.

Positions are for two years and may begin as early as March 2012.

The Evolutionary Biology Centre of Uppsala University offers a vibrant research environment and bridges a broad range of disciplines in the biological sciences. Information about the Evolutionary Biology Centre and the Department of Ecology and Genetics can be found at www.ebc.uu.se Prior to application, candidates should identify and communicate with a potential advisor. Potential advisors are faculty and researchers at the Department. Please, see list of staff in the four research programs of the Depart-

ment: Animal Ecology, Evolutionary Biology, Limnology, and Plant Ecology and Evolution at <http://www.ebc.uu.se/forskning/IEG/?languageId=3D1> To apply, candidates should submit a cover letter indicating the proposed faculty advisor(s), a curriculum vitae, and a short (1-3 pages) description of past research accomplishments and future research plans. Applicants should include names and e-mail addresses of two potential referees. Applicants should also indicate the date they will be available to begin the position, and should enclose a letter from the proposed supervisor that indicates willingness to host the suggested project and that describes the added value of the proposed project in relation to ongoing research.

For further information about the position, please contact professor Ulf Lagercrantz, phone +46 18 471 6418, e-mail Ulf.Lagercrantz@ebc.uu.se.

You are welcome to submit your application no later than March 7, 2013. The application form and further information can be found using the link below <http://www.uu.se/jobbothers/annonsvisning?languageId=3D1&tarContentId=3D230566> ulf.lagercrantz@ebc.uu.se

UppsalaU SoilFungi

Post doc, Life strategies in the Archaeorhizomycetes

The Archaeorhizomycetes is an ancient class of ubiquitous soil fungi. Sequences representing the class have been identified from vegetated terrestrial habitats across the globe. Estimates indicate that there are hundreds of species within the class and strong patterns of habitat specificity has been documented among species. Yet the ecological role of the Archaeorhizomycetes remain unknown.

Deadline for application is March 15, 2013.

For more information contact Anna Rosling (anna.rosling@ebc.uu.se) and visit the Rosling Lab website: <http://www.ebc.uu.se/Research/IEG/evbiol/research/rosling/> Anna Rosling <anna.rosling@ebc.uu.se>

Vienna EvolutionGeneExpression

A postdoc position is available at the Institute of Population Genetics, Vetmeduni Vienna (<http://i122server.vu-wien.ac.at/pop/>). We are looking for a highly motivated postdoc with interest in the evolution of gene expression. Bioinformatic skills and a solid background in evolutionary biology or population genetics are essential. Possible research topics include: - the evolution of plasticity in gene expression - sex-biased gene expression and polyandry - the role of cis- and trans-regulatory variation for adaptation to novel environments - transgenerational effects of gene expression Future post holders will benefit from a range of experimental evolution experiments in *Drosophila* as well as a large collection of *Drosophila* populations maintained at the institute.

The position is available from March 2013 and can be extended up to 3 years

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

Vienna PopulationGenomics OldWorldCamelids

Post-doctoral Researcher Vetmeduni Vienna (1.5 - 2 years)

Institute of Population Genetics

—Position description—

A postdoc position in Population Genomics is available in the newly established group of Dr. Pamela Burger in the Institute of Population Genetics, Vetmeduni Vienna. We are interested in the (domestication) history of Old World camelids (Bactrian camels and dromedaries) using whole genome approaches on modern and ancient samples. Research topics will focus on

(i) detecting selection in the domestic species and (ii) the demographic history of *Camelini.* Aspects of conservation genomics will be included with the analysis of wild Bactrian camel genomes. The project is embedded in an international collaboration/ network between the Vetmeduni Vienna, the Ludwig Maximilians University Munich, the University of Helsinki, the Mongolian Academy of Sciences and the King Faisal University, KSA. Details of the current research projects can be found here < http://i122server.vu-wien.ac.at/pop/-Burger_website/burger_home.html > .

The position is available for 1.5 (full time) to 2 (part time) years and may be continued depending on successful progress and available funding. A competitive salary and travel opportunities will be offered. The position is expected to start in spring/summer 2013, though a specific start date is negotiable. In the last several years, Vienna established an internationally leading platform in evolutionary biology (<http://www.evovienna.at>) and the Vienna School of Population Genetics (<http://www.popgen-vienna.at>), which both attract scientists and graduate students from all over the world. Apart from a stimulating scientific environment, Vienna also offers an extraordinarily high quality of life and ranks among the most attractive cities in Europe.

—Qualifications—

- The successful candidate will be highly motivated and should have a PhD in biology, genetics, computer science, statistics, bioinformatics, computational biology, or a related field - Knowledge of population genetics and next-gen sequencing as well as programming skills are essential, with knowledge of Python (Perl), R, and the Unix shell highly desirable. Other programming expertise (such as Java, C/C++) and complex trait mapping is a plus - Preference will be given to candidates with a strong publication record, the ability to work well in an interdisciplinary, collaborative environment, and with an interest in camels :)

—Application—

Interested candidates should send CV, a short description of their research interests and contact information for 2 references to Dr. Pamela Burger: pamela.burger@vetmeduni.ac.at Application deadline is 24 March 2013.

Dr. med. vet. Pamela Burger Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien, Austria Tel.: +43(0)1-25077-4333 (office)/-4390 (fax)

NEU: — *Camels in Asia and North Africa < <http://hw.oeaw.ac.at/7244-4?frames=3Dyes> >- -*

pamela.burger75@gmail.com

WashingtonStateU SedgeEvolution

Postdoctoral Research Associate in Sedge Systematics and Evolution at Washington State University

Research Topic: Create a phylogenetic-based worldwide sectional revision of *Carex* (Cyperaceae).

Position Description: The postdoctoral research associate will work with an international team of researchers led by Andrew Hipp (Morton Arboretum), Eric Roalson (WSU), and Marcia Waterway (McGill University) to develop large-scale phylogenetic hypotheses of relationships in *Carex* (Cyperaceae). The postdoc will be involved in all levels of the project from international fieldwork to data gathering, analysis, and publication. Research will require the integration of morphological, ecological, molecular phylogenetic, fieldwork, revisionary systematics, and hypothesis testing approaches.

Required Qualifications: Ph.D. degree in discipline related to the research area.

Preferred Qualifications: Experience with molecular phylogenetics, international fieldwork, and biodiversity

informatics. Evidence of strong writing and communication skills.

The successful candidate will (1) have a strong attention to detail, (2) be an independent thinker with strong problem-solving abilities, (3) be able to take the lead authorship on manuscripts, and (4) be able to effectively work in a large collaborative framework.

Salary: \$36,000 plus benefits.

To apply please submit the following documents through the WSU Jobs website, www.wsujobs.com, with your electronic application:

- (1) A detailed CV with publication list, successful grants, and contact information for three references.
- (2) A short letter explaining your interests and qualifications for this position.

Application Process: Applicants will be considered until the position is filled; however, applicants should submit by 5:00 pm EST, 1 April, 2013, for full consideration. Availability for an in-person interview is required. The position is available starting immediately, but the start date is flexible. The appointment is for one to three years, with annual extensions dependent on satisfactory performance.

If you have any questions, please contact Eric Roalson at eric_roalson@wsu.edu

“Roalson, Eric” <eric_roalson@wsu.edu>

WorkshopsCourses

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Banff EvoSysBio May26-31

Hi all,

On May 26-31 2013 we are organizing a 5 day workshop at the beautiful Banff International Research Center. We intend to discuss a broad range of mathematical challenges and tools that are important in evolutionary systems biology. The latter we take to include work that builds bridges between the molecular systems biology and evolutionary biology. More pointedly it could also be defined as the effort to get a better understanding and overview of fitness landscapes by including more molecular information. We think that the modeling in systems biology could provide great opportunities for addressing a number of old key questions that are important for evolutionary biology and population genetics, including distributions of mutational effects, epistasis and many more.

We aim to bring together researchers interested in quantitative methods at the interface between evolution and systems biology.

Participation at this workshop is by invitation only and we already have an interesting lineup of speakers. More information can be found at:

Updates: <http://evolutionarysystemsbiology.org/meeting/2013-BIRS> BIRS site: <http://www.birs.ca/events/2013/5-day-workshops/13w5080> We have reserved a few places for graduate students, postdocs and other researchers that might be interested in coming.

If this is you, please send - Title, affiliation and abstract for a poster or brief talk you'd like to present - Anything on your research interests and a CV in any form you like to Patricia Pointer (plpointer@wisc.edu), Subject: "Application to EvoSysBio BIRS").

The few remaining places will be awarded to strong candidates on a first-come first-served basis. We will evaluate applications at the end of every week.

Accommodation is covered by BIRS, but everybody has to pay for their own travel. There are no travel funds that we know of, but maybe this link from the BIRS website can help you: <https://www.birs.ca/participants/travel-support/> If you have any questions about this, please feel free to contact one of the organizers informally.

Best regards, The workshop organizers Ryan Gutenkunst, University of Arizona Laurence Loewe,

University of Wisconsin-Madison Peter Swain, University of Edinburgh

loewe@wisc.edu

Barcelona Cladistics Jun3-5

This is the last call for the course "QUANTITATIVE CLADISTICS AND USE OF TNT", June 3-7, 2013. Instructors: Dr. Goloboff and Dr. Szumik (Conicet, Argentine). More information: <http://www.transmittingscience.org/cladistics.htm>. Reduced registration until February 28.

The workshop will cover the basics of parsimony analysis and character optimization, tree-searches, diagnosing and summarizing results efficiently, and measuring group supports. It will have extensive hands-on exercises which will help participants get familiar with the main aspects of phylogenetic analysis using TNT. The workshop will make extensive use of TNT. There will also be a demonstration and some practice with GB->TNT, a program to create TNT matrices from GenBank data.

This workshop will be held in the Hostalets de Pierola (Barcelona, Spain) and is co-organized by Transmitting Science, Institut Catalá de Paleontologia M. Crusafont and the council of Hostalets de Pierola. Places are limited and will be covered by strict registration order.

With best regards

Soledad De Esteban-Trivigno, Ph.D. Course Director
Transmitting Science

soledad.esteban@transmittingscience.org

Barcelona QuantGeneticsShape Apr2-11

Dear list members:

This is the last call for the following courses which may be of your interest:

"Integration and modularity with geometric morphometrics-second edition"; April 2-5, 2013. Instructor: Dr. Chris Klingenberg (University of Manch-

ester, UK); http://www.transmittingscience.org/modularity_and_gm.htm . “Quantitative genetics of shape”; April 8-11, 2013. Instructors: Dr. Neus Martínez-Abadías (Centre for genomic regulation, Spain) and Dr. Nicolás Navarro (École Pratique des Hautes Études, France); http://www.transmittingscience.org/quant_gen_shape.htm . These courses will be held in the Sabadell facilities of the Institut Català de Paleontologia (Barcelona, Spain) and are co-organized by Transmitting Science and the Institut Català de Paleontologia M. Crusafont. Place are limited and will be covered by strict registration order. Participant of this workshop will get a 20 % off if attending to the workshop “Integration and modularity with geometric morphometrics” that will be held the week before (http://www.transmittingscience.org/modularity_and_gm.htm).

With best regards

Soledad De Esteban-Trivigno, PhD.
soledad.esteban@transmittingscience.org Transmitting
Science <<http://www.transmittingscience.org/>>

Soledad De Esteban Trivigno
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Crete Metabarcoding May13-17

2ND DNA METABARCODING SPRING SCHOOL IN CRETE, GREECE (13-17 MAY 2013)

The advances in next-generation sequencing (NGS) technologies have revolutionized many fields of the biological sciences, including that of biodiversity studies. Many ecological questions rely on the knowledge of the list of species involved in the studied process. Tackling this demand using standard methods of taxonomical identification, is often a difficult task that relies on highly qualified persons. DNA barcoding has introduced the use of short standardized genomic sequences (barcode) as a character in taxonomical identification. DNA metabarcoding uses the same principle that associates DNA sequences to taxa for estimating biodiversity of an environmental sample. Metabarcoding approaches use total and usually degraded DNA from environmental samples to analyze biotic assemblages and can be potentially carried out for any kind of organisms in an ecosystem. These analyses rely on specific genetic markers, called metabarcodes, which should be optimized for taxonomic resolution, minimal bias in amplification of the target organism group and short

sequence length. As all living organisms spread cells in their environment, a PCR amplicon obtained with adequate primers from the total DNA extracted from an environmental sample, can be considered as a mirror of the biodiversity present in the environment. The pertinent choice of the primer pair allows to focus on a specific group as, for example, plants. Then the sequencing of a large number of individual DNA molecules of the PCR amplicon using NGS technologies allows establishing a list of taxa present in the sample. Metabarcoding can be applied to many ecological studies such as plant community analysis, plankton and benthic community analysis, past ecosystem reconstruction, or diet assessment.

After the success of the 1st DNA Metabarcoding Spring School in French Alps, we organize the 2nd one in Crete, which includes lectures and bioinformatic practical sessions on metabarcoding. The School is open for 20 participants (post-graduate students or researchers) that will attend both lectures and practicals, and for 30 additional participants that will follow only the lectures.

The focus will be mainly on marine biodiversity, however people from all fields of metabarcoding are encouraged to participate.

For more information go to <http://metabarcoding.org/spip.php?article38> Main lecturers

- Antony Chariton (CSIRO, Australia) - Eric Coissac (LECA, CNRS, France) - Xin Zhou (BGI, China) - Francois Pompanon (LECA, CNRS, France) - Lucie Zinger (LECA, CNRS, France) - ...

Application

The number of participants will be limited to 20 that will attend both lectures and practical sessions. Thirty (30) more participants will follow only the lectures. Applications including a short CV and a short motivation letter should be sent to spring2013@metabarcoding.org, with subject: “MARBIGEN DNA Metabarcoding School 2013” no later than 1 March 2013.

Workshop venue

The workshop will be held in the premises of the Hellenic Centre for Marine Research in Crete, Greece in the main building of Thalassokosmos complex (former US base at Gournes, Heraklion).

Accommodation

Accommodation will be provided in hotels in the area of the workshop venue, in special prices for the participants.

Workshop Costs

There are no registration fees for the workshop. Partic-

ipants will have to pay for their accommodation, meals and travel expenses. The average cost for accommodation and meals for 6 days is not expected to exceed 350 euros.

The organizing committee
Hellenic Center for Marine Research
kasapidi@hcmr.gr

HarvardU PlantEvolution Jun10-21

Summer Courses in Organismic Plant Biology at the Arnold Arboretum of Harvard University

Plant Morphology: Linking Phenotype to Development, June 10 - 21, 2013

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 2013, "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.

Application process: Please return the application < <http://arboretum.harvard.edu/wp-content/uploads/Application-final.pdf> > form to amiee-

vans@fas.harvard.edu by March 1, 2013

Costs: Each student will receive a travel stipend of up to \$500; meals and dormitory lodging will be provided for all participants.

Pamela.Diggle@colorado.edu

Herrsching Germany QuantTraits Jun30-Jul12

Dear Ladies and Gentlemen,

Synbreed, the Synergistic Plant and Animal Breeding Network, is glad to announce the

Synbreed Summer School 2013: "Quantitative Traits: Advanced Topics in Plant and Animal Breeding"

which will take place from June 30th to July 12th in Herrsching am Ammersee, Germany.

The Synbreed Summer School provides an introduction to the evolution and selection of quantitative traits for PhD students and postdoctoral researchers in animal and plant breeding. The Summer School will be conducted by Bruce Walsh of the University of Arizona, one of the leading authorities in this field. The course consists of lectures and practical components with hands-on exercises. It is intended as an introduction to the subject and also covers a number of sophisticated approaches to the evolution and selection of quantitative traits.

We are attaching the programme of the course to this mail. Further details are available at the Synbreed website:

<http://www.synbreed.tum.de/> We would very much appreciate it if you could pass this announcement on in your organisation/institute or publicise it through the channels at your disposal (mailing lists, announcement on web pages etc.).

Kind regards,

Michael Auwers

Project Coordination Synbreed

Plant Breeding Center of Life and Food Sciences Weihenstephan Technische Universitaet Muenchen

Emil-Ramann-Str. 4 D-85354 Freising Germany

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breed@tum.de URL: www.synbreed.tum.de “UATZ,
DNTW” <dntw@agr.uni-goettingen.de>

Hinxton UK StatGenetics Jul24-30

Human Genome Analysis: Genetic Analysis of Multifactorial Diseases 24-30 July 2013 Wellcome Trust Genome Campus, Hinxton, Cambridge, UK Deadline for applications: 12 April 2013 URL: <http://www.wellcome.ac.uk/Education-resources/Courses-and-conferences/Advanced-Courses-and-Scientific-Conferences/Advanced-Courses/WTX026851.htm>

Course summary An intensive, residential, computer-based course aimed at scientists actively involved in genetic analysis of multifactorial traits.

Programme This advanced course covers statistical methods currently used to map disease susceptibility genes, with an emphasis on (but not limited to) methods that can analyse family data or a combination of families and individuals. Discussions of the latest statistical methodology are complemented by practical hands-on computer exercises using state-of-the-art software. The statistical basics behind each method will be carefully explained so that participants with a non-statistical background can understand. With a focus on family data, we will discuss fundamental issues needed to increase success in gene mapping studies including: optimal study design, power to detect linkage and association, determining the most appropriate statistical methods and software, interpretation of statistical results and trouble shooting. We will also cover the basic principles of statistical inference, hypothesis testing, population and quantitative genetics and Mendelian inheritance. Our interactive and intensive educational program will enable one to better carry out sophisticated statistical analyses of genetic data, and will also improve one's interpretation and understanding of the results. All the software used is freely available, so that skills learned can be easily applied after the course. Teaching will take the form of lectures by invited speakers, informal tutorials, hands-on computer sessions, and analysis of disease family data sets. There will also be an opportunity to discuss participants' own data sets.

“Sinsheimer, Janet” <JanetS@mednet.ucla.edu>

KansasStateU EvolutionChangingEnv

ANNOUNCING: Summer 2013 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 1st of March 2013.

Complete information 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 Mail: Division of Biology, 116 Ackert Hall, Kansas State University, Manhattan, KS 66506 Office: 785.532.6126, Molecular Lab: 785.532.6074, Fly Lab 785.532.6416, Fax: 785.532.6653 Email: tjmorgan@ksu.edu, Skype: [morganlab.ksu](https://www.skype.com/partners/morganlab.ksu), www.ksu.edu/morganlab tjmorgan@ksu.edu

KelloggBioStation EvolutionaryEcol Jun3-21

Summer Course in Metacommunity Ecology at Kellogg Biological Station

ELME 2013: Metacommunity Ecology and Evolution

ELME < <http://kbs.msu.edu/education/elme> > is a summer educational program at the Kellogg Biological Station < <http://kbs.msu.edu> > devoted to Enhancing Linkages between Mathematics and Ecology. ELME 2013 will focus on metacommunity ecology and evolution. In this advanced hands-on three-week course, students will learn the basics of metacommunity theory and apply their knowledge to independent modeling projects. A wide variety of approaches to spatial ecology will be employed.

Dates: June 3-21, 2013

Hours: Mon-Fri 9-5

Instructors: Mathew Leibold (University of Texas-Austin) Christopher Klausmeier (Michigan State University)

Target audience: 12-18 graduate students and post-docs; exceptional undergraduates will be considered

Prerequisites: At least one semester experience in theoretical ecology/evolution. Previous exposure to metacommunity theory useful but not required.

Format: A mixture of lecture, guided computer labs, and 1.5 weeks independent/team projects

** KBS Eminent Ecologist Sebastian Diehl June 16-22
**

To apply, email elme2013@kbs.msu.edu the following:

- your CV - a statement of research interests and why you'd benefit from the course
- a statement of relevant educational/research experience, including related coursework
- the name of a reference who you've asked to email a letter of support

Deadline for applications: March 22, 2013

Financial support to cover room and board and help defray transportation costs is available. Let us know if this is not necessary.

Any questions? Email elme2013@kbs.msu.edu

ELME is supported by MSU and NSF grant DEB-0845825 to C. Klausmeier.

Christopher Klausmeier <klausme1@msu.edu>

Montreal PopGenetics GeneticEpidemiology May27-31 reminder

*Montreal Spring School of Population * **

Genomics and Genetic Epidemiology is having its 6th annual workshop from May 27 to 31, 2013 in Montreal, Canada.

This workshop provides training in the rapidly developing disciplines of genetic epidemiology, human evolutionary genetics, population genomics and bioinformatics.

The 5-day training will be based on real-data examples from the instructors laboratories.

*For a downloadable printer-friendly poster, *for more information and to register* * please visit * * * *<http://www.montrealsschool.ca/>*

Application deadline: February 22, 2013

Montreal Spring School
<montrealsschool@gmail.com>

MountainLakeBiolStation NSF EarlyCareer Writing Aug5-9

NSF-IOS Early Stage Faculty Writing Retreat

Mountain Lake Biological Station Pembroke, VA

August 5-9, 2013

We invite applications from early-stage faculty from groups under-represented in Biology for an intensive writing retreat paired with a publication workshop August 5-9, 2013 at Mountain Lake Biological Station in Pembroke, Virginia.

Funded by a grant from the National Science Foundation IOS, the goal of the workshop is to support early-stage biologists from groups under-represented in biology to develop into consistent, creative, productive writers within their disciplines. Mentors with extensive expertise as editors and editors-in chief, department chairs, and senior scientists with highly success-

ful publication records to will help participants develop strategies for productive publication. The group workshops will include topics such as: developing a scholarship/writing plan; time management and developing effective writing habits; knowing when you have enough data to make a paper complete; choosing the right journal and writing effective cover letters for manuscripts; communicating effectively with editors and reviewers; developing productive writing collaborations; and working with student coauthors. We also hope to foster community ties among participants that will continue to facilitate effective scholarship and offer the concentrated opportunity to engage in productive writing.

Intended Participants: Post-docs and early-stage faculty from groups under-represented in biology. Priority will be given to participants 2-8 years out from their PhD. We define “under-represented” very broadly and plan to be very inclusive as we gather a group of participants who are diverse in many ways, including discipline of biology and type of institution.

Cost: Our NSF funding covers room, board and participation costs for approximately 30 early-stage biologists from under-represented groups. Participants are responsible for their own travel costs.

To apply, please visit <http://www.stonehill.edu/-x28231.xml>. For more information, contact Bronwyn Bleakley at bbleakley@stonehill.edu.

Workshop Organizers: Bronwyn Bleakley, Butch Brodie & Allen Moore
edb9j@virginia.edu

Okinawa BigData IntegrativeBiology

Ongoing technological advances are enabling new and increasingly precise measurements of biological systems, from single molecules to entire ecosystems. For example, sequencing a human genome, once a decade-long, multi-billion dollar enterprise, will soon be as routine as an x-ray for medical diagnosis. Likewise, information on human behavioral patterns, previously only accessible through laborious surveys, can now be collected massively in real time using the internet or mobile devices. However, the onslaught of high-throughput, quantitative experiments has raised important new questions. Can “big data” provide new insights into old problems? What questions are uniquely

suited to large, data-driven approaches? What ideas can different fields offer each other in terms of both measurement and analysis? To address such topics, The Okinawa Integrative Biology Course will bring together a diverse range of scientists, from ecologists and evolutionary biologists to physicists and mathematicians for a two-week program in a stunning natural environment.

We are looking for motivated and energetic students, whose participation in the course will be fully supported (flight, housing, food, etc.). There is no reason not to apply.

For more information, see our web site: oibc.oist.jp, or email oibc@oist.jp.

I hope to see you in Okinawa.

Alexander (Sasha) Mikheyev Assistant Professor () Okinawa Institute of Science and Technology 1919-1 Tancha Onna-son, Kunigami-gun 904-0495 Japan
mikheyev@gmail.com

PennState DiseaseDynamics

The Center for Infectious Disease Dynamics (CIDD) at Penn State will be offering a free, open access online course (MOOC) on Coursera called “Epidemics - the Dynamics of Infectious Diseases”

Registration is now open at <https://www.coursera.org/course/epidemics> Most of the 8 instructors are active figures in the field of evolutionary biology, and will be covering topics relevant to evolutionary biology, such as the evolution of antibiotic resistance, evolution of virulence, etc. The course will be taught by Marcel Salathé, Ottar Bjornstad, Andrew Read, Rachel Smith, Mary Poss, David Hughes, Peter Hudson and Matthew Ferrari.

Marcel Salathé, PhD Assistant Professor of Biology & Computer Science and Engineering Society in Science: Branco Weiss Fellow

CIDD - Center for Infectious Disease Dynamics Penn State University W-251 Millennium Science Complex University Park, PA, 16802

web: salathegroup.com mobile: (408) 386-8916 office: (814) 867-4431

Marcel Salathé <salathe@psu.edu>

Roscoff France MarineGenomics Jun3-14

Summer course on marine genomics at the Marine Biological Station of Roscoff (F)

>From June 3rd - 14th, 2013 the 9th Summer Course on Marine Evolutionary & Ecological Genomics will take place at the Station Biologique de Roscoff, Roscoff, France.

First announcement

Aims: The two week course, which consists of lectures, tutorials and computer based exercises, aims to highlight the crucial role of marine genomics for the understanding of the marine environment and for an efficient use of its resources. The Biological Station is a vibrant research community of 273 scientists and support personnel, and is located in the old town and fishing port of Roscoff, Brittany, France. Advanced PhD students and junior post-docs are encouraged to apply.

The course consists of the following topics. Phylogeny & tree of life- sequence analyses, phylogenetic techniques (clustering, Bayesian statistics), molecular clock, case studies Population genetics - structure, connectivity and gene flow, assignment, effective size and population dynamics, case studies Genomics - next generation sequencing, database searching, basic skills in data handling and bioinformatics Functional genomics - genome structure, molecular evolution at the functional level Comparative genomics - whole genome comparisons, concatenated phylogeny, genome organization, annotating genomic information, co-evolution Environmental genomics - methods for detecting diversity; detecting adaptive variation; NGS: why and how; case studies. Applications in aquaculture, blue biotech, conservation, fisheries, nutrigenomics and the like will be discussed.

Target group PhD students (at least in their second year) and junior postdocs with a solid knowledge in phylogenetics and/or population genetics. Students with an applied background (e.g. aquaculture, blue biotech, fisheries, nutrigenomics) are encouraged to apply.

18 participants will be selected on the following criteria: 1. Relevance of the course for their PhD or postdoc project 2. Background and experience 3. We aim at training people with different research backgrounds;

not more than one person per institute will be considered. We implement a gender policy.

The selected persons will be notified by mid April and will have to confirm attendance within 7 days. There is a waiting list in case of non-confirmations and cancellations.

Teachers Catherine Boyen, SB-Roscoff, FR Melody Clark, BAS, UK Jonas Collén, SB-Roscoff, FR Simon Creer, U Bangor, UK Yves Desdevises, UPMC, Banuyls, FR Jakob Hemmer-Hansen, DTU-Aqua, DK Frederik Leliaert, U Ghent, BE Frédéric Partensky, SB-Roscoff, FR Daniel Vaultot, SB-Roscoff, FR Filip Volckaert, KU Leuven, BE Mathias Wegner, GEOMAR, Kiel and AWI-Sylt, GE

Organizing committee Jonas Collén, SB-Roscoff, FR Damien Guiffant, SB-Roscoff, FR Matthias Obst, Univ. Gothenburg, SW Jeanine Olsen, Univ Groningen, NL Filip Volckaert, KU Leuven, BE

For information and application please consult <http://-meeg2013.sciencesconf.org>. The application deadline is March 28 2013.

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

SwissAlps EvolutionaryBiology 18-24Jun

Evolutionary Biology Workshop in the Alps

(The deadline is February 17; compared to the December posting, please note that Hanna Kokko replaced Mark Kirkpatrick on the faculty.)

18-24 June 2013, Riederfurka, Switzerland

3 ETSC credit points

Faculty: Spencer Barrett (University of Toronto) Hanna Kokko (Australian National University) John Pannell (University of Lausanne) Tadeusz Kawecki (University of Lausanne)

Target participants: PhD students, advanced Master students

This workshop, based on a concept developed by Stephen Stearns and John Maynard Smith.

The main goals of this course are to develop the following skills: . developing your scientific ideas through discussions in groups; . thinking critically and expressing

oneself clearly; . turning a general idea into a research project; . writing a research proposal and defending it.

It is you, the students, who will be in charge in this course. You will be divided in groups of 4-5 students. In those groups, you will work on your ideas. You, as a group, will decide what the important open questions in broadly defined evolutionary biology are, you will choose one, and attempt to develop a proposal for a research project that will address it. The faculty will visit the groups during the discussions to answer your questions, provide coaching and give you feedback on your projects, but they will generally take the back seat. Additionally, the faculty will give talks about their research and be available for informal discussion with individual students. At the end you will present your projects to other participants, and we will party.

The workshop will take place in Villa Cassel (<http://www.pronatura-aletsch.ch/home-en>), at 2000 m of altitude, amid the magnificent mountain landscape of UNESCO World Heritage Site, walking distance from the largest glacier of the Alps. This isolated site will help you to concentrate on the course while giving you also the chance to enjoy the views and the alpine flora.

Costs: CHF 530.- for room and board; there is no tuition fee.

To apply, send a single file (pdf or rtf) containing a short motivation letter, a cv, and the name of your scientific advisor to Nadia Bruyndonckx <Nadia.Bruyndonckx@unil.ch>, with a Cc to tadeusz.kawecki@unil.ch .

Deadline for application: 17 February 2013.

– Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Le Biophore, CH 1015 Lausanne, Switzerland tadeusz.kawecki@unil.ch

tadeusz.kawecki@unil.ch

Switzerland SpeciationGenomics Mar26-29

Call for Participants

FroSpects workshop “Genetics and Genomics of Speciation”

Switzerland, March 26-29 2013

We invite a small number of early-career researchers

(PhD students and Postdocs) to participate in a workshop on the “Genetics and Genomics of Speciation.” This is one of the final events in the European Science Foundation funded FroSpects program (<http://webarchive.iiasa.ac.at/Research/EEP/FroSpects/>). It will bring together a small number of senior speciation researchers with ~15 early career speciation researchers for a highly interactive three days of discussion, synthesis, and writing focused on identifying current questions in speciation research and how genomic data can help address these questions.

Major themes of the workshop will include: 1. Genes with major effect on speciation, isolation genes, and “magic traits” 2. Genome-wide analyses of divergence during speciation 3. Genetic constraints to speciation, including the roles of standing genetic variation and G-matrix properties

The goal of our workshop is to identify elements required, available and those still lacking for an extended synthesis in speciation research integrating genomic perspectives.

The workshop venue is the Center for Ecology, Evolution and Biogeochemistry (CEEB) of Eawag, the Swiss Federal Institute of Aquatic Science and Technology (http://www.eawag.ch/forschung/cc-ceed/index_EN). Participants will be accommodated on site and will share all meals. We anticipate three days of very intensive interactions.

Prospective junior participants (Postdocs and PhD students) should send a one-paragraph statement of motivation, along with a brief CV including a list of publications and a proposed poster title and abstract to workshop2013@eawag.ch. Applications will be accepted until February 15th. Later applications will be considered if places are available. All lodging and accommodation expenses will be covered from Tuesday night to Saturday morning. Expenses for participants will include a 100 Swiss Franc (~100 USD) registration fee to cover administrative expenses, and travel expenses to Kastanienbaum (close to Lucerne, Switzerland). Accommodation is in shared dormitory-style rooms at the CEEB on the shores of Lake Lucerne.

Confirmed speakers include: Jenny Boughman Roger Butlin Fabrice Eroukhmanoff Jeff Feder Paul Hohenlohe Chris Jiggins Felicity Jones Irene Keller Martine Maan Blake Matthews Michael Nachman Catherine Peichel Glenn-Peter Saetre Ole Seehausen Catherine Wagner Alex Widmer

Organiser and Convenor: Ole Seehausen (University of Bern, Eawag) Host team: Catherine Wagner, Irene Keller, Joana Meier, David Marques (University of

Bern, Eawag)

Co-organiser: Roger Butlin (University of Sheffield)

Other members of Science committee: Ulf Dieckmann (FroSpects chair), Åke Brännström (FroSpects co-chair)

A homepage for the workshop soon be up at <http://www.eawag.ch/frospects13>. Questions can be directed to catherine.wagner@eawag.ch.

cew35@cornell.edu

groups under the supervision of a teaching assistant. This summer school is open for students from all countries and targeted toward PhD students and postdocs of evolutionary biology or related research fields with no or little programming experience who want to become proficient in computational evolutionary biology in a couple of weeks.

The course takes place at the University of Leipzig.

rui.faria@upf.edu

ULeipzig ProgrammingForEvolutionaryBiology

Course on Programming for Evolutionary Biology

The deadline for applications is approaching: February 17th 2013!

Location: Leipzig, Germany

When: April 3rd - 19th 2013

Detailed information about the course content and how to apply: <http://evop.bioinf.uni-leipzig.de/> 'Nothing in Biology Makes Sense Except in the Light of Evolution' (Dobzhansky, 1973). Today, evolutionary biology often involves the analysis of an unprecedented amount of information and supports many other disciplines, such as medicine (evolutionary medicine), behavioral biology (evolutionary psychology), ecology, and information transfer. Scientists have to analyze large datasets, which requires computational programming skills to design and apply own ideas into customized algorithms.

In this intensive 17 days course, students will learn how to survive in a Linux environment, get hands-on experience in two widely used programming languages (Perl and R), and statistical data analysis. The classes will be given by experts in the field and consist of lectures and exercises with the computer. The aim of the course is to provide the students with the necessary background and skills to perform computational analyses with a focus on solving research questions related to genomics and evolution. The philosophy of the course will be 'learning by doing', which means that the computational skills will be taught using examples and real data from evolutionary biology for the exercises. During the course, students will also propose projects of their own interest and perform them as final projects in small

UPadova EvoDevo Sep23-27

Summer School on Evolutionary Developmental Biology Conceptual and Methodological Foundations

3rd Edition: From Gene Networks to Organismal Systems

Venice, 23-27 September 2013

Organizers: Alessandro Minelli, Gerd B. Müller and Giuseppe Fusco School director: Johannes Jaeger

School sponsors: Istituto Veneto di Scienze, Lettere ed Arti, Venice and Konrad Lorenz Institute for Evolution and Cognition Research, Vienna. Location: Istituto Veneto di Scienze, Lettere ed Arti, Palazzo Franchetti, Venice

Taching panel: J. Jaeger, School Director (Centre for Genomic Regulation - CRG, Barcelona), C. Alonso (University of Sussex), P. Beldade (Instituto Gulbenkian de Ciência, Lisbon), G.E. Budd (University of Uppsala), G. Fusco (University of Padova), G. Giribet (Harvard University), V. Grieneisen (John Innes Centre, Norwich), R. Jenner (Natural History Museum, London), A. McGregor (Oxford Brookes University), A. Minelli (University of Padova), C. Mirth (Instituto Gulbenkian de Ciência, Oeiras), G.B. Müller (Konrad Lorenz Institute, Vienna)

Deadline for applications: May 30th 2013

For details, visit < <http://extra.istitutoveneto.it/-EDB2013/> >

Giuseppe Fusco Department of Biology University of Padova Via U. Bassi 58/B I-35131 Padova Italy tel. +39.049.827.6238 fax +39.049.827.6230 e-mail giuseppe.fusco@unipd.it webpage <http://dept.bio.unipd.it/fusco>

Giuseppe Fusco <giuseppe.fusco@unipd.it>

UWashington Statistical Genetics Apr1-Jun14

The Department of Statistics at the University of Washington will provide an online offering of the course STAT 550 A

Statistical Genetics I; Discrete Mendelian Traits

Dates: Spring 2013 Quarter, April 1 - June 14 Number of credits: 3

Instructor: Professor Elizabeth Thompson (eathomp@uw.edu) (<http://www.stat.washington.edu/~thompson/>)

This course provides an introduction to the models and methods of Statistical Genetics for students with little Genetics background but with some knowledge of Probability and Statistics. The course provides a basis for further study in Statistical Genetics, whether in Quantitative Genetics, Human and Medical Genetics, Population and Evolutionary Genetics, or Computational Molecular Genetics.

This class will be given online (audio and slides) in conjunction with the regular on-campus class offering of the class in Spring Quarter 2013. The class will be available to registered University of Washington non-matriculated students (NM):

For information on registering for NM status: see <http://nondegree.washington.edu/nondegree/register/> For information on UW course fees for this 3-credit 500-level class: see <http://nondegree.washington.edu/nondegree/fees/> For qualified students, the Department of Statistics will approve both NM status (if not already obtained) and course entry: contact Elizabeth Thompson (eathomp@uw.edu) for more information.

Some information about the 2010 offering of the online version of this course is available at: http://www.stat.washington.edu/thompson/Stat550/Online_2010/ Additional information on the 2012 on-campus offering is at: <http://www.stat.washington.edu/thompson/Stat550/> The 2013 class is expected to follow a very similar schedule.

Bruce Weir <bsweir@u.washington.edu>

Venice Metazoan Phylogeny May3-5

Dear all,

the Italian Zoological Association (UZI) is pleased to announce the third edition of the UZI Spring School. This year the selected topic is:

“Metazoan Phylogeny and Evolution”.

The School will be held in Venice (hosted at Palazzo Franchetti on the Grand Canal) from May 3 to 5. The School is open to PhD students, post-docs and young researchers that can experience an exciting three days in Venice discussing with Senior Scientists on a fascinating topic.

The Schools is sponsored by the Italian Zoological Association and by the Istituto Veneto di Scienze lettere ed Arti. The costs of participation is 150 euros which includes accommodation and meals for the duration of the school. The number of participants is limited to 30.

Deadline for application is March 20.

For any further detail, please go to the link <http://www.uzionlus.it/Attivit/uss.aspx> Tomaso Patarnello (Director of the School)

PROGRAM

Program May 3 Friday 13.00-15.00 Registration

15.00-16.15 The early fossil record of animals and its contribution to metazoan phylogenetics Gregory D. Edgecombe The Natural History Museum, London

16.15-16.45 Coffee break

16.45-18.00 Lights and shadows of the vertebrate phylogeny Rafael Zardoya Museo Nacional de Ciencias Naturales, Madrid

20.00 - DINNER

May 4 Saturday

9.00-10.15 Life cycle evolution: continuity and adaptation Claus Nielsen Natural History Museum of Denmark, University of Copenhagen

10.15-11.30 The cnidarian premises of Metazoan evolution Ferdinando Boero Università del Salento, Lecce

11.30-12.00 - Coffee break

12.00-13.15 What have we learned from 25 years of molecular phylogenies of the animal kingdom? Max

Telford University College London

13.15-15.00 LUNCH

15.00-16.15 Resolving Ancient Radiations in the Age of Genomics - Prospects and Challenges Antonis Rokas Vanderbilt University, Nashville, USA

16.15-16.45 - Coffee break

16.45-18.30 - PRACTICAL SESSION OF PHYLOGENETIC RECONSTRUCTION An introduction to genomic tools useful to study the Metazoa phylogeny Enrico Negrisono Università di Padova

May 5 Sunday

9.00-10.15 Arthropod evolution throughout phylogeny, and beyond Alessandro Minelli Università di Padova

10.15-10.45 - Coffee break

10.45-12.00 The early steps of hexapod diversification: what's wrong with morphology and molecules? Francesco Frati Università di Siena

12.00-12.30 Closing remarks

Tomaso Patarnello <tomaso.patarnello@unipd.it>

WageningenU SocialGeneticsEvolution May13

This is a symposium and course announcement, please forward this email to colleagues that might be interested. Apologies for the double postings. The attachment contains the official announcement.

Symposium: Genetics of social life: Agriculture meets evolutionary biology

On the 13th of May 2013, the Animal Breeding and Genomics Centre of Wageningen University organizes a symposium on social genetic effects.

Keynote speakers:

- Alastair Wilson - Centre for Ecology and Conservation, University of Exeter, United Kingdom
- Hannah Dugdale - Department of Animal and Plant Sciences, University of Sheffield, United Kingdom
- Jason Wolf - Department of Biology & Biochemistry, University of Bath, United Kingdom
- Laurent Keller - Department of Ecology and Evolution, University of Lausanne, Switzerland
- Piter Bijma - Animal Breeding and Genomics Centre,

Wageningen University, the Netherlands

Location: Wageningen, The Netherlands

Date: May 13 2013

Fee: Free

Course: Social genetic effects: Theory and genetic analysis

>From May 14 until May 16 2013, the Animal Breeding and Genomics Centre of Wageningen University organizes a course on social genetic effects.

Aim: The course focusses on the theory and genetic analysis of social effects (Indirect Genetic Effects). Throughout the course the aim will be to learn useful approaches and strategies for analysing your own data. Data analysis exercises will be carried out by participants using asreml. You can bring your own data.

Teacher:

- Piter Bijma, Animal Breeding and Genomics Centre, Wageningen University, the Netherlands.

Target audience: The course is designed for PhD students, postdoctoral fellows, academic and company researchers interested in social effects in plant, natural or livestock populations. Basic knowledge in quantitative or statistical genetics is desired, but not compulsory.

Location: Wageningen, the Netherlands

Dates: May 14 - 16, 2013 The course will start on Tuesday May 14 at 9:00 am. The course will end at 5.00 pm on Thursday 16th of May.

Information about program and registration for both the symposium and course will soon be available on the website (www.wias.nl under courses&seminars)

Symposium Organisation: Esther Ellen (Esther.Ellen@wur.nl) and Fleur Bartels (Fleur.Bartels@wur.nl)

Dr. Esther D. Ellen Postdoc

Animal Breeding and Genomics Centre, Wageningen UR (University & Research Centre) P.O. box 338, 6700 AH Wageningen, The Netherlands De Elst 1, 6708 WD Wageningen, The Netherlands

Email: esther.ellen@wur.nl Website: <http://www.wageningenur.nl/abg/> www.disclaimer-nl.wur.nl "Ellen, Esther" <Esther.Ellen@wur.nl>

WoodsHole EvolutionOfAging Jul21-Aug10

Summer Course at the Marine Biology Lab, Woods Hole, MA on the Molecular Biology of Aging

Course Directors: Daniel Promislow and Matt Kaeberlein

Dates: July 21st to August 10th

Topics covered: Molecular biology, evolution, demography and systems biology of aging

Webpage: http://hermes.mbl.edu/education/courses/-special_topics/bag.html Application Deadline: March 11, 2013

Details The Ellison Medical Foundation sponsors the Molecular Biology of Aging Summer Course to be held July 21 - August 10, 2013 at the Marine Biological Laboratory in Woods Hole, Massachusetts. This three-week lecture and laboratory course features the newest and most exciting ideas in aging research. The course is under the new directorship of Matt Kaeberlein and Daniel Promislow. While the focus will be primarily on the

molecular biology of aging, both lecture and lab will include essential evolutionary, statistical demography and systems biology aspects of aging research.

Costs of attending the course, including travel, housing, and meals at the Marine Biology Lab in Woods Hole, are fully covered by The Ellison Medical Foundation. A distinguished faculty will interact with approximately 20 students via lecture, discussion, hands-on experiments, and analysis of data.

2012 Faculty Lecturers

Steve Austad, UTHSCSA and the Barshop Institute Nir Barzilai, Albert Einstein College of Medicine Holly Brown-Borg, University of North Dakota Anne Brunet, Stanford University Dan Gottschling, Fred Hutchinson Cancer Research Center Lenny Guarente, Massachusetts Institute of Technology Marcia Haigis, Harvard Medical School Pankaj Kapahi, Buck Institute for Research on Aging Matt Kaeberlein, University of Washington Matthew Meselson, Harvard University Richard Morimoto, Northwestern University Daniel Promislow, University of Georgia Gary Ruvkun, Harvard Medical School David Sinclair, Harvard Medical School Yousin Suh, Albert Einstein College of Medicine

Daniel Promislow Department of Genetics University of Georgia Athens, GA 30602-7223

promislow@uga.edu

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 notification 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 L^AT_EX 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 formatted) the message will be sent 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 preformatting 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.