E v o l D i r

November 1, 2011

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

Foreword

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

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

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

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Conferences

Arizona Volvox Dec1-4 DeadlineExt

The deadline for registration for the First International Volvox Conference (http://www.unbf.ca/vip/IVC/-index.htm) has been extended to November 1. Please join us for the 1st International Volvox Conference (focused on the green alga Volvox and its close relatives) to be held December 1-4, 2011 at the Biosphere 2, in Arizona, USA (http://www.b2science.org/-). This is the first of what we hope to be a long series of Volvox meetings to be held every other year, alternating with the Chlamydomonas meetings. For additional information and updates (including preliminary program, registration and abstract submission deadlines) please visit the Conference page at http://www.unbf.ca/vip/IVC/index.htm . – Matthew D. Herron, PhD Department of Zoology University of British Columbia X.princeps@gmail.com http://www.eebweb.arizona.edu/grads/mherron/ xprinceps@gmail.com

Arizona VolvoxEvolution Dec1-4 2

This is a reminder that the registration deadline is approaching for the First International Volvox Conference (details below). To register, go to www.unbf.ca/-vip/IVC/registration.html and submit your abstract at www.unbf.ca/vip/IVC/abstracts.html by October 15th. We welcome researchers from other fields with an interest in the evolution of multicellularity, cellular differentiation and development, comparative genomics, and multilevel selection. Conference information:

Please join us for the 1st International Volvox Conference (focused on the green alga Volvox and its close relatives) to be held December 1-4, 2011 at the Biosphere 2, in Arizona, USA (www.b2science.org/). This is the first of what we hope to be a long series of Volvox meetings to be held every other year, alternating with the Chlamydomonas meetings. For additional information and updates (including preliminary program, registration and abstract submission deadlines) please visit the Conference page at www.unbf.ca/vip/IVC/-

index.htm.In addition to sessions (contributed papers and posters) on various aspects of the biology, taxonomy, ecology, development and evolution of Volvox and its relatives, we are organizing a workshop on Volvox genetics and genomics that will provide a forum to discuss emerging tools and methods (or ways of adapting those that have been developed in other systems) to enhance our understanding of genetically-controlled processes in this group of algae.

Thank you and hope to see you all at the Biosphere 2 in December! Best wishes,

Aurora M. Nedelcu University of New Brunswick Department of Biology PO Box 4400 Fredericton, New Brunswick Canada E3B 5A3

Matthew D. Herron, PhD Department of Zoology University of British Columbia X.princeps@gmail.com http://www.eebweb.arizona.edu/grads/mherron/
Matthew Herron <xprinceps@gmail.com>

Basel Macrostomum Nov25-27

5th International Macrostomum Meeting

We are happy to announce that we will hold the "Fifth International Macrostomum Meeting" (5th IMM) here in Basel, from Friday, 25.11.2011 at 18:00 to Sunday, 27.11.2011 at around 16:00.

With the "First International Macrostomum Meeting" in 2007, also in Basel, we started a tradition of annually bringing together the growing community of researchers that are either working on Macrostomum or who are otherwise interested in research on this novel model organism.

The topics of contributed talks and posters will likely span aging, development, genomics, transcriptomics, transgenesis, regeneration, neurobiology, ecotoxicology, systematics, phylogenetics, and sexual selection. It is a great opportunity to get an update on what is happening in the Macrostomum Community, and to establish personal contacts if you consider to start working on these lovely worms.

As before, we would like to keep things very simple and we expect everyone to be prepared to cover their own costs. In addition, we will collect a small fee to cover sandwich lunches, refreshments and a joint dinner on Saturday evening (about 60 Euros). We offer limited floor space accommodation in the apartments of people in our group, which we'll be preferentially given to students (just bring along a mat and a sleeping bag). Please let us know if you would like to be accommodated in this way (see the form below) and note that floor space is limited, so book soon.

People who would like to make a hotel reservation should do it soon, because there are many fairs in Basel, and hotels can fill up quickly. We suggest that you book your room in the Hotel Rochat, where we routinely host guests that visit our department (http://-www.hotelrochat.ch), and where we therefore have special rates. The rates are 125.- CHF for single rooms and 180.- CHF for double rooms. They also have 3-, 4-, and 5-bed rooms for 230.-, 260.- and 300.- CHF, respectively, if you want to share costs. The Hotel Rochat is just five minutes by foot from the Institute. Please contact them directly to make your arrangements/payments, and mention the Zoological Institute when you book to get the special rates.

For people coming by plane, please note that Easyjet (http://www.easyjet.com), Swiss (http://www.swiss.com), and AirBerlin (http://-www.airberlin.com/) fly to Basel from many European destinations (e.g. Hamburg, London, Amsterdam, Brussels, Berlin, Madrid, Barcelona etc.).

If you would like to attend the meeting please fill out and return the form below to dita.vizoso@unibas.ch before the 21st of October.

First Name: xx Last Name: xx Institution (incl. address and Country): xx

Tel: xx Email: xx

Presentation (delete as appropriate): Oral/Poster/None Title: xx Authors: xx Institutions: xx Abstract (max. 300 words): xx

I am a student (delete as appropriate): Yes/No I want floor accommodation (delete as appropriate): Yes/No

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Hopefully see you soon in Basel,

Lukas Schärer Dita Vizoso Steve Ramm Lucas Marie-Orléach Kiyono Sekii Roberto Arbore Nadja Burri Micha Eichmann

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Dita B. Vizoso

Zoologisches Institut der Universität Basel Evolutionsbiologie Vesalgasse 1 CH-4051 Basel Switzerland

tel:++41 61 267 0376 fax:++41 61 267 0362

dita.vizoso@unibas.ch http://evolution.unibas.ch/-people/dita/ http://evolution.unibas.ch/people/dita/-fish/fish.html dita.vizoso@unibas.ch

Coimbra Portugal EvolutionaryBiol Dec21

Date: 21 December 2011 Location: Coimbra,Portugal. Hosted by: Science Museum and CIBIO

The VII National Meeting in Evolutionary Biology will take place in Coimbra, on the 21st December, 2011.

Submissions of communications can be done until November 21, to this address: biologia.evolutiva@gmail.com

Election of the board of the Portuguese Society for Evolutionary Biology may take place during the meeting - the terms still to de defined.

A workshop on science communication will take place on the 20th. Registration for the workshop is independent from the Meeting. However, the workshop is intended to the scientists attending the meeting that wish to participate.

More details will be given soon.

Paulo Gama Mota

Olá a todos,

A data definitiva para a realização do VII Encontro Nacional da Biologia Evolutiva é de 21 de Dezembro, no Museu da Ciência, Universidade de Coimbra. As comunicações podem ser submetidas até dia 21 de Novembro através do site: http://www.biologia-evolutiva.net/ - que vamos refazer para este encontro dentro de dias -, ou para o endereço biologia.evolutiva@gmail.com que foi criado para esse efeito. A data de 21 de Novembro é necessária para se avaliarem as propostas e decidir sobre as mesmas. Dentro de dias darei mais informações sobre o Encontro. Registem nas vossas agendas p.f.

Se a Sociedade Portuguesa de Biologia Evolutiva já estiver formalmente constituída na data do Encontro, aproveitaremos para eleger uma Direcção, como me confirmou a Isabel Gordo que dirige a Comissão instaladora.

Por sugestão de alguns membros do grupo achámos interessante promover um workshop pré-encontro, no dia 20, sobre 'Science Communication'. Informações sobre os convidados e inscrições serão dadas dentro de dias.

Saudações evolutivas

Paulo Gama Mota

– Paulo Gama Mota Museu da Ciência da Universidade de Coimbra

Departamento de Ciências da Vida Faculdade de Ciências e Tecnologia Universidade de Coimbra

Paulo Gama Mota <pgmota@antrop.uc.pt>

Coimbra Portugal EvolutionaryBiol Dec21 2

The VII annual Portuguese Evolutionary Biology Meetings will be held on the 21st of December 2011, in Coimbra, in the Science Museum. A pre-meeting workshop on "Science Communication" will be held on the 20th of December. For online registration (with or without communication), please visit: http://-/www.biologia-evolutiva.net/inscr.htm Please submit abstracts (for oral communications or posters) to biologia.evolutiva@gmail.com until the 20th of November, in conformity with the abstract format (see http://-www.biologia-evolutiva.net/)

andrelevy@gmail.com

Denver ProteinEvolution Dec5-7

Meeting on Mechanisms of Protein Evolution

December 5-7, 2011

Denver, CO, USA

http://www.evolutionarygenomics.com/-MMPE_Denver/ The meeting will focus on explicit consideration of biophysical and systems biology principles to generate a mechanistic understanding of selective pressures and the impacts of neutral evolutionary processes. Topics will include interaction with phylogenetics, adaptation, coevolution, convergence, neutral processes, and other topics of concern to the study of molecular biology and evolution.

This will be a small meeting, with plenty of opportunity for interaction. Talks by students as well as more senior investigators are encouraged.

Organized by David Pollock (University of Colorado School of Medicine), David Liberles (University of Wyoming), and Rachel Mueller (Colorado State University)

The meeting is timed to also enable attendance at Rocky 2011, the Rocky Mountain Bioinformatics Conference, in Snowmass/Aspen starting on December 8, for those interested.

"David A. Liberles" <Liberles@uwyo.edu>

Dublin SMBE2012 Jun23-26 CallSymposia 2

SMBE 2012: Call for Symposia Six Days to Go!

The deadline to submit your proposal for symposium topics at the Society for Molecular Biology & Evolution Annual Meeting is next Monday, 31st October.

To submit your proposal, please fill out the word document at (http://imgpublic.mci-group.com/-ie/PCO/SMBE_2012_CFS_template.doc) and return it to SMBE2012@mci-group.com.

Successful Symposium applications will be confirmed on Monday, November 7th, 2011, at which time a call for abstracts will be sent.

There will be a financial contribution made towards speaker expenses. More details will follow on the conference website, www.SMBE2012.org . Regards,

James.

– James McInerney, Department of Biology, NUI Maynooth, Co. Kildare, Ireland. P: +353 1 7083860 F: +353 1 7083845 W: http://bioinf.nuim.ie/ james.o.mcinerney@nuim.ie

Edinburgh ParasiteEvolutionAcrossScales Nov29

Life in cells, hosts, and vectors: how do parasites maximise fitness across scales?

A one-day symposium Tuesday November 29, 2011 University of Edinburgh Ashworth Laboratories, Lecture Theatre 3

Organisers: Nicole Mideo & Sam Brown Hosted by the Centre for Immunity, Infection, and Evolution (CIIE; http://ciie.bio.ed.ac.uk/), a Wellcome Trust-funded initiative with the remit to connect evolutionary biology to infection research and gain an interdisciplinary perspective on challenges to global health.

The aim of the symposium is to bring together researchers from diverse disciplines to address a central question in infectious disease biology: How do parasites maximise fitness across a range of biological scales? Although parasite fitness is often equated with between-host transmission, such a simple assumption overlooks the fact that transmission is a consequence of processes acting on a number of different scales and, in some cases, across a number of vastly different environments. Understanding disease evolution therefore requires an understanding of the cellular and behavioural interactions between parasites and hosts; of host demography and epidemiology; of vector ecology and immunity; and of the links between these scales.

This symposium brings together researchers whose work looks across scales and environments to understand why and how parasites 'do what they do', tying together mechanism, evolutionary explanations, and public health implications. Our programme of speakers is broad, covering a range of different systems - from micro- (bacteria, protozoans) to macro-parasites (helminths) - as well as integrating theoretical and empirical approaches.

Speakers: * Olivier Restif (University of Cambridge) * Sarah Reece (University Edinburgh) * Toni Aebischer (Robert Koch Institute) * Andy Fenton (University of Liverpool) * Sam Brown (University of Edinburgh) * Ville Friman (Unviersity of Exeter) * Alvaro Acosta-Serrano (University of Liverpool) * Joanne Webster (Imperial College) * Mark Brown (Royal Holloway, University of London)

The symposium is free, including lunch and refreshments, but please register at: http://ciie.bio.ed.ac.uk/-node/329 Nicole Mideo, Junior Fellow Centre for Immunity, Infection, and Evolution School of Biological Sciences Ashworth Laboratories University of Edinburgh Edinburgh EH9 3JT Scotland, UK n.mideo@ed.ac.uk Tel +44 131 650 8682

N.Mideo@ed.ac.uk

Edinburgh ParasiteFitness Nov29

One day symposium in Edinburgh, UK: "Life in cells, hosts, and vectors: how do parasites maximise fitness across scales?"

Dear Colleagues,

We are pleased to announce that the 5th CIIE Symposium, "Life in cells, hosts, and vectors: how do parasites maximise fitness across scales?", will be held on Tuesday November 29, 2011 in Lecture Theatre 3, Ashworth Laboratories, University of Edinburgh.

This will be an all-day event. You can now register via our website: http://ciie.bio.ed.ac.uk/node/329 The aim of the symposium is to bring together researchers from diverse disciplines to address a central question in infectious disease biology: How do parasites maximise fitness across a range of biological scales? Although parasite fitness is often equated with between-host transmission, such a simple assumption overlooks the fact that transmission is a consequence of processes acting on a number of different scales and, in some cases, across a number of vastly different environments. Understanding disease evolution therefore requires an understanding of the cellular and behavioural interactions between parasites and hosts; of host demography and epidemiology; of vector ecology and immunity; and of the links between these scales.

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Speakers: . Olivier Restif (Cambridge) - Is Salmonella trapped in the closet? The coming-out of an intracellular pathogen . Sarah Reece (Edinburgh) - Putting within-host ecology into parasite biology: strategic decision-making? . Toni Aebischer (Robert Koch Institute) - Life in cells: From a proteomic parts list to an interpretation of the habitat of Leishmania in macrophages . Andy Fenton (Liverpool) - Dances with worms: the evolution of pathogen virulence under coinfection . Sam Brown (Edinburgh) - Virulence dynamics across multiple environments . Ville Friman (Exeter) - Protist and phage enemies and the evolution of virulence in opportunistic bacterial pathogens . Alvaro Acosta-Serrano (Liverpool) - TBA . Joanne Webster (Imperial) -How do schistosomes optimize fitness across scales and changing environments? . Mark Brown (Royal Holloway) - Dynamic transmission, host quality and populations structure in a multi-host parasite of bumblebees

If you'd like to attend, you need to register using the online registration form on our website http://-ciie.bio.ed.ac.uk/node/329. Lunch will be provided for all registered attendees.

You can contact the organisers by e-mailing ciie@ed.ac.uk

We look forward to welcoming you on 29th November.

On behalf of the organisers,

Ms Kasia Kokowska Manager, Centre for Immunity, Infection and Evolution Ashworth Labs, King's Buildings, West Mains Road, Edinburgh, EH9 3JT

0131 6513683

kasia.kokowska@ed.ac.uk

Tom Little Wellcome Trust Senior Research Fellow in Basic Biomedical Sciences Institute of Evolutionary Biology Kings Buildings University of Edinburgh EH9 3JT UK

+44 131 650 7781

tom.little@ed.ac.uk

http://www.biology.ed.ac.uk/research/groups/tlittle/

Tom Little <Tom.Little@ed.ac.uk>

Edinburgh PhylogenyDiscussionGroup Oct26

Dear all,

The second meeting of the Scottish Phylogeny Discussion Group will take place in Edinburgh on 26th October 2011, 1.30pm to 5.30pm. The Scottish Phylogeny Discussion Group is a series of meetings for researchers interested in phylogeny reconstruction and associated areas of research, including comparative genomics, phylogenomics, population genetics and taxonomy.

Dr. Omar Rota Stabelli will talk on "Signal explo-

ration and the affinities of the ecdysozoans". We also have local speakers from the Royal Botanic Garden, the University of Glasgow, University of St. Andrews and University of Strathclyde.

The meeting is free to attend, but to give us an idea of numbers for catering we still need you to register. See this page for details and registration:

http://biology.st-andrews.ac.uk/cegg/spdg Please circulate this email to any of your colleagues who might be interested.

Regards,

Martin Jones Institute of Evolutionary Biology University of Edinburgh

martin846@googlemail.com

KansasCity Genomics Nov4-6 Deadlines

This is the final week to: 1)REGISTER at early discounted rates, 2)SUBMIT YOUR ABSTRACT for oral presentation consideration, and 3)RESERVE YOUR HOTEL ROOM for the Ecological Genomics Symposium, November 4-6, 2011, in Kansas City.Â Deadline:Â Friday, October 7, 2011.Â (If you do NOT wish to have your abstract considered for oral presentation, you may submit your poster abstract by October 26.)Â

We have a great lineup of speakers you wonât want to miss!Â Register now â ÂÂÂÂÂÂÂÂÂÂ ...to attend the 9th Annual âGenes in Ecology, Ecology in Genesâ Symposium on November 4, 5, & 6, 2011, in Kansas City.Â

We will convene in the Muehlebach/Marriott Hotel in downtown Kansas City at 6:00 p.m. on Friday and conclude on Sunday at noon.Â Please visit the Symposium website, www.ecogen.ksu.edu/symp2011 , to register for the Symposium, submit abstracts, and reserve your hotel room.Â You may also register to join your colleagues for dinner on Saturday night at the Bristol Seafood Grill in the nearby Kansas City Power and Light District for an additional fee of $50.

SYMPOSIUM WEBSITE:Â www.ecogen.ksu.edu/-symp2011

ECOLOGICAL GENOMICS is a field at the interface of ecology, evolution and genomics that seeks to place the functional significance of genes and genomics into an ecological and evolutionary context.

We have an outstanding lineup of speakers for the 2011 Symposium and we encourage you to attend!

PLENARY SPEAKER: +Louis Bernatchez, UniversitÃ© Laval, âTesting for parallel evolution at multiple-levels during the time course of an adaptive radiation (and lessons for conservation)â

FEATURED SPEAKERS: + Byron Adams, Brigham Young University, âEvolutionary and ecological stoichiometry of Antarctic nematodesâ + Justin Borevitz, University of Chicago, âThe genetic basis of growing season adaptation in Arabidopsis thalianaâ + Daniel H. Buckley, Cornell University, âGene exchange and the evolutionary dynamics of microbial populationsâ + John Kenneth Colbourne, Indiana University, âDuplicating genes allow Daphnia populations to thrive in toxic environmentsâ + John Jaenike, University of Rochester, âEndosymbiont-mediated protection against parasitic nematodesâ + Brian Lazzaro, Cornell University, âPleiotropy and environment in resistance to bacterial infection in Drosophilaâ + Jeremy L. Marshall, Kansas State University, âSpeciation genetics in the age of -omics and systems biologyâ + Emilie Snell-Rood, University of Minnesota, âConstraints on the evolution of plasticity: Genomic approaches in horned beetles across nutritional environmentsâ + Victoria L. Sork, University of California-Los Angeles, âPopulation and landscape genomics of valley oak (Quercus lobata), a California endemicâ

POSTER SESSIONS:Â Poster sessions will be held Friday night and Saturday afternoon.Â Poster topics should be related to the field of Ecological Genomics.Â A limited number of submitted poster abstracts will be selected for oral presentations.

SATURDAY NIGHT BANQUET:Â Join your colleagues for dinner on Saturday night at the Bristol Seafood Grill in the nearby Kansas City Power and Light District. An icon in the city since 1980, Bristol Seafood Grill is an upscale seafood restaurant offering the area's freshest premium seafood and steaks. The atmosphere offers a unique blend of the upscale and casual chic. The cost for the optional Saturday night banquet is $50 per person.

DEADLINES: Â Friday, 10/7/11, REGISTRATION deadline at early bird rates. Â Friday, 10/7/11, POSTER ABSTRACTS are due for oral presentation consideration. Â Friday, 10/7/11, HOTEL rooms must be reserved to receive reduced group rate.

INFORMATION will be posted on our website, www.ecogen.ksu.edu/symp2011 , as details are finalized.Â

Please share this announcement with colleagues and students who are interested in learning more about the field of Ecological Genomics.Â If you have questions, please contact Michael Herman or Loretta Johnson.

Funding for this symposium is provided by Kansas State University.

Ecological Genomics Institute Directors:

ÂÂ Dr. Loretta Johnson, johnson@ksu.edu ÂÂ Dr. Michael Herman, mherman@ksu.edu ÂÂ Kansas State University, Division of Biology ÂÂ 116 Ackert Hall, Manhattan, KSÂ 66506-4901 ÂÂ ecogen.ksu.edu

Doris Merrill, Program Coordinator dmerrill@k-state.edu

Ecological Genomics Institute <dmerrill@k-state.edu>

KansasCity Genomics Nov4-6 RegistrationExt

Early Registration Rates Extended to Friday, 10/21, for the

ÂÂÂÂ ECOLOGICAL GENOMICS SYMPOSIUM ÂÂÂÂ November 4 to 6, 2011 ÂÂÂÂ Kansas City Marriott Downtown

You still have time to plan to attend!Â To help as many people as possible have the opportunity to attend the Symposium this year, WE ARE OFFERING THE EARLY, DISCOUNTED RATES FOR REGISTRATION THROUGH FRIDAY, OCTOBER 21.Â

The HOTEL is continuing to accept reservations at the low rate of $125/night until the room block is sold out so make your reservations today!ÂÂÂ

Poster abstracts will be accepted until October 26.Â The deadline to be considered for an oral presentation has passed but we welcome your poster at the Symposium.

REVISED DEADLINES: Â Friday, 10/21/11, REGISTRATION deadline extended at early bird rates.Â Â Wednesday, 10/26/11, POSTER ABSTRACTS are due. Â Until the room block is depleted, reserve your HOTEL ROOM to receive reduced group rate.

SYMPOSIUM WEBSITE:Â www.ecogen.ksu.edu/-symp2011

We have a great lineup of speakers you wonât want to miss!Â Register now â ÂÂÂÂÂÂÂÂÂ ...to attend the 9th Annual âGenes in Ecology, Ecology in Genesâ Symposium on November 4, 5, & 6, 2011, in Kansas City.Â We will convene in the Muehlebach/Marriott Hotel in downtown Kansas City at 6:00 p.m. on Friday and conclude on Sunday at noon.Â Please visit the Symposium website, www.ecogen.ksu.edu/symp2011 , to register for the Symposium, submit abstracts, and reserve your hotel room.Â You may also register to join your colleagues for dinner on Saturday night at the Bristol Seafood Grill in the nearby Kansas City Power and Light District for an additional fee of $50.

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SATURDAY NIGHT BANQUET:Â Join your colleagues for dinner on Saturday night at the Bristol Seafood Grill in the nearby Kansas City Power and Light District. An icon in the city since 1980, Bristol

Seafood Grill is an upscale seafood restaurant offering the area's freshest premium seafood and steaks. The atmosphere offers a unique blend of the upscale and casual chic. The cost for the optional Saturday night banquet is $50 per person.

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Ecological Genomics Institute Directors:

Â Dr. Loretta Johnson, johnson@ksu.edu ÂÂDr. Michael Herman, mherman@ksu.edu Â Kansas State University, Division of Biology Â116 Ackert Hall, Manhattan, KSÂ 66506-4901 Â ecogen.ksu.edu

Doris Merrill, Program Coordinator Â

dmerrill@k-state.edu dmerrill@k-state.edu

LaJolla DrosophilaSpecies Oct27-30 FinalCall

Final call.....

The Tenth Drosophila Species Workshop will take place from Thursday October 27 through Sunday October 30, 2011 at the UCSD campus in La Jolla, California. The workshop employs hands-on approaches and will focus on the chracteristics of the melanogaster, repleta, virilis, and obscura species groups, including how to identify species, aspects of their biology and reproduction, and husbandry. Workshop instructors include Patrick OGrady, Stephen Schaeffer, Sergio Castrezana, Masa Watada, Therese Markow, and Maxi Richmond. Registration is $400 and includes all instruction and materials, reception dinner, Saturday evening dinner with keynote talk by Dr. Cassandra Extavour (Harvard University), morning and afternoon refreshments and one lunch. Space is limited. To apply, please send a one page statement of your research interests and why the workshop will be valuable to you to Dr. Therese Markow, UCSD Drosophila Species Stock Center: tmarkow@ucsd.edu

Therese Ann Markow, Professor Amylin Chair in Life Sciences Section of Cell and Developmental Biology Division of Biological Sciences Muir Biology Building 2215 9500 Gilman Drive University of California at San Diego La Jolla, CA 92093-0116

Email: tmarkow at ucsd.edu Phone: (858) 246 0095 Laboratory: (858) 246 0402 FAX:(858) 534-7108

http://biology.ucsd.edu/labs/markow/ http:/-/stockcenter.ucsd.edu Therese Markow <tmarkow@ucsd.edu>

Lisbon Ethology Apr12-13

We are pleased to announce that the next conference of the Portuguese Ethology Society will take place on 12-13 April 2012 in Lisbon, at the Faculty of Sciences and is organized by the Centre for Environmental Biology.

This meeting will bring together contributions from several related fields - Ecology, Evolution, Development, Physiology and Neuroscience - and several animal groups - unicellular, invertebrates, vertebrates, mammals, humans. The meeting aims to provide an integrative vision of the study of animal behaviour, to provide an updated overview of the research being conducted in Portugal in this field and to promote the interaction between researchers and students.

For more information (including invited speakers) see:

http://spe2012.fc.ul.pt/EN/index.html Hope to see you there!

The organizing committee

Joana Jordão, CBA, FCUL

Rita Covas, CiBio, UP

Rita Ponce, CBA, FCUL

Sara Hagá, FP-UL

Susana Varela, CBA, FCUL

anaritaponce@gmail.com

Lisbon FishPhylogeography Nov26-27

Call for Participants * * *Workshop on the Biogeog-

raphy and Phylogeography of Atlantic Fishes* Date: 26-27 November 2011 Location: Lisbon, Portugal

The organizing committee of the Workshop Biogeography and Phylogeography of Atlantic Fish, is pleased to announce that the International Biogeography Society and the society's scientific journal Frontiers of Biogeography will jointly award euro 100 money grants to 7 students, to help defray the cost of attending the workshop meeting. Awards will be handed to seven best poster presentations chosen by the workshop organizing committee. Posters will be judged on creativity, quality, excellence of research, and quality of presentation.

Deadline for Registration and Poster submission: October 31st 2011

Please see details and register on http://-biocongroup.eu/Workshop_Atlantic/Home.html
Keynote talks

Diversity of phylogeographic patterns in the Northeastern Atlantic: the last glaciation and the Lusitanian Province Almada, V.C.

Evolutionary history of Mediterranean Fishes Bernardi, G.

Is there a pattern in the Mediterranean-Atlantic marine divide? Castilho, R.

Contrasts and similarities in the historical biogeography of North Pacific and North Atlantic species Grant, W.S.

Post glacial recolonization in Scandinavian waters - present and historical patterns Knutsen, H.

Lessons to be learn from Atlantic phylogeography of invertebrates Cunningham, C.

Atlantic reef fish biogeography and macroecology: what is known and what's next? Floeter, S.R.

The effect of sea level fluctuations in Atlantic biogeography Rocha, L.A.

Parallels and differences between two temperate marine systems von der Heyden, S.

Larval behavioural and life history features that affect dispersal-retension patterns in the temperate Atlantic Gonçalves, E.

andrelevy@gmail.com

Marseilles 16th EBM Sep18-21

The 16th EBM will take place from September 18th to September 21st 2012

http://sites.univ-provence.fr/evol-cgr/ best regards Pierre

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

MichiganStateU ArtificialLife Jul19-22

FIRST CALL FOR PAPERS:

Artificial Life 13

The Thirteenth International Conference on the Synthesis and Simulation of Living Systems

"Evolution in Action"

July 19-22, 2012, Michigan State University

East Lansing, Michigan, USA

www.alife13.org/ You are invited to submit papers to the upcoming Thirteenth International Artificial Life Conference. Please forward this call responsibly.

I. OVERVIEW

It is a great pleasure for the BEACON Center for the Study of Evolution in Action at Michigan State University to host the 13th International Artificial Life Conference. Artificial life (ALife) refers to the synthesis and simulation of living systems as these occur in nature and also to possible alternative life forms and concepts that may not have occurred in natural evolutionthat is, not only in "life-as-we-know-it", but also "life-as-it-might-be". ALife research may use not only biochemical models, but also computer models and robotics. The Artificial Life conference is held every other year under the auspices of the International Society for Artificial Life (ISAL), alternating with the European Conference on Artificial Life.

This year's major conference theme is "Evolution in Action." Life is shaped by evolutionary processes, and

ALife models are a powerful way to investigate and utilize this key characteristic of living systems. We encourage submissions by biologists as well as by computer scientists and engineers, especially interdisciplinary papers that explore the many ways that evolution and artificial life research intersect. Other tracks this year include Behavior & Intelligence, Collective Dynamics, Synthetic Biology, and The Humanities and ALife. See the list of tracks below for examples of topics that may fall under these headings.

II. KEYNOTE SPEAKERS

Steven Benner, Foundation for Applied Molecular Evolution, Synthetic Biology

Oron Catts, University of Western Australia, Biotechnology & Art

Benjamin Kerr, University of Washington, Experimental Evolution

Radhika Nagpal, Harvard University, Self-Organizing Systems

Jack Szostak, 2009 Nobel Laureate in Physiology or Medicine, Massachusetts General Hospital, Evolution in Action

III. IMPORTANT DATES

- Full paper/abstract submission deadline: 26 February 2012

- Notice of acceptance for full papers: 22 April 2012

- Early Registration deadline (required for presenting authors): 14 May 2012

- Camera ready deadline: 14 May 2012

- Conference: 19-22 July 2012

IV. SUBMISSIONS

A submission can either be in the form of a full paper or an extended abstract. Full papers have an 8 page maximum length, while abstracts are limited to two pages. Graphics and figures are encouraged. All submissions must be made using a pre-formatted MS Word or LaTeX template, which is available from the conference site.

All submissions will be subject to peer review. Submissions may be accepted as either a talk or as a poster, with no distinction being made between the two submission formats.

Every accepted full paper will be published by the MIT Press in an online open-access proceedings volume. The top 10 accepted papers will have the opportunity to publish a revised and expanded version in the Artificial Life journal.

NOTE: In addition to the main conference, ALIFE 13 will host related workshops and tutorials. Details on proposing such events can be found on the conference web site.

V. TRACKS

- Evolution in Action - Including evolutionary dynamics, simulations of evolution, developmental systems, experimental evolution, viral and bacterial evolution, evolution of drug resistance.

- Behavior & Intelligence - Including animal behavior; evolution of cognition and intelligence; evolutionary robotics; embedded systems.

- Collective Dynamics - Including group selection; evolution and stability of ecosystems; network dynamics; social dynamics; evolution of cooperation and conflict; collective motion and swarming in animals and animats.

- Synthetic Biology - Including synthetic cells, synthetic organisms, biological engineering, artificial genetic systems, artificial chemistry, origin of life, paleogenetics

- The Humanities and ALife - Including art, music, history and philosophy of artificial life.

See the conference web site www.alife13.com for more detailed descriptions of each of the tracks.

VI. LOCATION & LOGISTICS

The conference will be held in East Lansing, Michigan, home of Michigan State University (MSU). Sessions will take place at MSU's Kellogg Hotel and Conference Center, located on the Red Cedar River on the edge of campus and within walking distance of downtown East Lansing.

Flights are available directly into Lansing, Michigan's Capital City Airport. Alternatively, one may fly to Detroit and then take a bus (the Michigan Flyer - www.michiganflyer.com) from Detroit Metro Airport to East Lansing.

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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

Neuchatel AdaptiveLandscapeGenetics Feb7-8

Conference: Adaptive landscape genetics, Neuchatel, Switzerland

We are happy to announce the symposium

"Adaptive landscape genetics: current insights and future directions"

on February 7ˆth and 8ˆth 2012 at the University of Neuchatel (Switzerland).

see: www.unine.ch/ALG2012 Landscape genetics is an integrative field of research, aiming at understanding microevolutionary processes across natural populations. It is developing in a rapid way due to advances in genomics technologies, environmental data acquisition and statistical methods to associate them.

During this symposium, we intend to foster exchange between researchers having complementary expertise in order to further explore the contributions of landscape genetics to the assessment of the interactions between environment and adaptive genetic variation in natural populations. Invited speakers and contributed talks will offer an overview of current trends in the field and perspectives on how it will grow and develop in the future.

Invited speakers:

Malika Ainouche (Univ. Rennes, F)

Auréline Bonin (Univ. Grenoble, F)

Laurent Excoffier (Univ. Bern, CH)

Felix Gugerli (WSL Birmensdorf, CH)

Stéphane Joost (EPFL, CH)

Christian Lexer (Univ. Fribourg, CH)

Christophe Randin (Univ. Basel, CH)

Pierre Taberlet (CNRS, F)

Fees: 150 CHF, including coffee breaks, meals and conference dinner (free for CUSO PhD students).

Deadline for submitted abstracts (talks and/or posters): December 13ˆrd 2011.

Deadline for registration without contribution: January 14ˆth 2012.

Details and registration forms can be found at www.unine.ch/ALG2012 The organizers: Christian Parisod and Rolf Holderegger

Christian Parisod Evolutionary Botany - University of Neuchatel Rue Emile-Argand 11 - 2000 Neuchatel - Switzerland Phone: +41 (0)32 718 2344, Fax: +41 (0)32 718 3001 e-mail: christian.parisod@unine.ch http://www2.unine.ch/evobot/page-11460.html
Christian Parisod <christian.parisod@unine.ch>

NorthCarolina SEPEEG 2011 Oct21-23 StudentReg

Student members of the American Society of Naturalists get $20 off Registration at the SouthEastern Population Ecology and Evolutionary Genetics (SEPEEG 2011) - October 21-23, 2011

Thanks to generous support from American Society of Naturalists (http://www.asnamnat.org/), SEEPEG registration for student members of ASN is only $109! SEPEEG registration closes 10/7. To become a student member of ASN, please go to http://www.asnamnat.org/ . For more information on SEPEEG, see http://sepeeg.bio.unc.edu The conference registration fee will cover on-site housing, meals, and entertainment. Keeping with the tradition of SEPEEG, the 2011 meeting will be informal and accommodations will be on the rustic side. Participants may register to give an oral presentation and/or poster. A poster session will be held during the social event after dinner Saturday. A keynote address will be given on Saturday morning. Keynote Speaker: Dr. Haven Wiley , University of North Carolina at Chapel Hill

This meeting is a great opportunity for early career scientists to present their work in a congenial setting.

Questions can be emailed to SEPEEG@bio.unc.edu

On Behalf of SEPEEG,

Dr. Corbin D. Jones

Organizer

p.s. Those student members of ASN that have already registered for , you will be refunded $20 upon proof of ASN membership.

Corbin D. Jones, Ph.D. Department of Biology Carolina Center for Genome Sciences Campus Box 3280, Coker Hall UNC-Chapel Hill Chapel Hill, NC 27599-3280

cdjones@email.unc.edu

Ottawa iEvoBio OrganizingCommittee

iEvoBio, the conference on Informatics for Phylogenetics, Evolution, and Biodiversity, is a recently founded satellite conference held in conjunction with the Evolution meetings. iEvoBio aims to be a forum bringing together biologists working in evolution, systematics, and biodiversity, with software developers, and mathematicians, both to catalyse the development of new tools, and to increase awareness of the possibilities offered by existing technologies (ranging from mega- scale data analysis to rich visualization). The inaugural meeting was held in 2010 (see http://ievobio.org/2010) and received wide acclaim; the second one, held in 2011 (see http://ievobio.org/2011), was similarly successful and productive. The conference is poised to establish itself as a self-sustaining annual event and a must-attend for researchers, developers, and users of informatics resources in our fields.

For the 2012 iEvoBio conference, to be held in junction with the 2012 Evolution Meetings in Ottawa, Canada, we are seeking new members to join us on the organizing committee. Aside from being enthusiastic about the conference itself, we are particularly interested in people with research pursuits that involve integrative, interdisciplinary, and synthetic questions, and a commitment to promoting the reuse of data, information, and software.

Serving on the iEvoBio organizing committee entails attending weekly conference calls, and sharing responsibility for making the conference happen at all stages, including crafting communications such as calls for abstracts, managing content contributions from participants, and budgeting.

The iEvoBio organizing committee shapes and manages the entire event, from start to finish. As such, participating in the committee provides ample opportunities for people with ideas, wild or not, to conceive innovative program elements towards iEvoBios social objectives of fostering participation, interaction, and collaboration, and to make those happen. The committee has been marked by an open- minded, highly constructive, but also deeply professional climate. Serving on the committee is actual work, but also provides a unique opportunity to collaborate with like-minded people who one may not otherwise get to work with, on a product for the benefit of our community and the advancement of our science.

To apply, fill out a short online application form at http://bit.ly/okxqS1 by October 15th, 2011. We expect the organizing committee to have at least 6-7 members, and thus currently at least 4-5 seats are available to be filled through this call. This call is open to people at all professional grades and our hope is that at least one, and hopefully more, seats will be filled with graduate or postdoctoral students. We (see the undersigned below) will sort through the applications and reach a decision within one week after close of applications. If you have any questions about the conference or the committee, we encourage you to resolve these before applying by contacting us (see email addresses below).

Please feel free to re-send, tweet (http://bit.ly/-qyYT0s), or share this message as needed. Thanks!

On behalf of the future 2012 iEvoBio Organizing Committee, Rob Guralnick (robert.guralnick@colorado.edu), University of Colorado at Boulder Hilmar Lapp (hlapp@nescent.org), National Evolutionary Synthesis Center (NESCent)

Hilmar Lapp <hlapp@nescent.org>

SaintMalo France TE Apr21-24

Second International Congress on Transposable Elements - ICTE2012

The French Society of Genetics and the French Transposition Community (CNRS) are happy to announce the opening of registration for the "2nd International Congress on Transposable Elements", which will be held in Saint Malo (France) from April 21st to April 24th, 2012.

Since their discovery in the 1940's, transposable elements have been shown to contribute significantly to genome structure, evolution and function. Their study aims at understanding their biological success and to characterize their contribution to fundamental biological functions. The increasing interest in these elements is strongly linked to our recent knowledge of genome organization and function. They are major players of phenotypic diversity but they are also involved in diverse human pathologies.

Transposable element studies cover a broad spectrum of organisms and a large variety of biological processes and methodologies. The aim of this international congress unique in Europe is to integrate recent knowledge to design new concepts and to identify future orientations of research. Several topics will be covered such as, the evolution and activity of transposable elements, their dynamics within genomes and populations, their mechanisms of transposition and control and their impact on genomes.

You can now in a few clicks register for the meeting and make a reservation for you hotel on our official web site: http://www.icte2012.com/ . A limited amount of two and three stars hotel rooms have been pre-reserved for meeting participants, so we encourage you to register early to get the best places in beautiful historical Saint Malo city center. Once registered, you will receive a password needed to submit an abstract. Thirty-three abstracts will be selected for an oral presentation and up to 160 abstracts for a posters presentation.

We hope to see you soon in Saint Malo for what promises to be an exiting meeting!

On behalf of the Organizing Committee,

Richard Cordaux

–

Richard Cordaux, Ph.D.

Université de Poitiers UMR CNRS 6556 Ecologie, Evolution, Symbiose 40 Avenue du Recteur Pineau 86022 Poitiers Cedex France Tel: +33 (0)5 49 45 36 51 Fax: +33 (0)5 49 45 40 15 E-mail: richard.cordaux@univ-poitiers.fr Lab website: http://-ecoevol.labo.univ-poitiers.fr/ Personal website: http:/-/rcordaux.voila.net/ richard.cordaux@univ-poitiers.fr

Salzburg EvolutionPhysiologicalTraits Jun29

Dear Colleagues

We are pleased to announce that a two-day session on the Evolution of Physiological Traits will be held as part of the Society for Experimental Biology (SEB) Annual Meeting in Salzburg (29th June-2nd July 2012). We have a number of slots that are held open for contributed talks, and invite you to submit an abstract and / or register to attend the meeting.

Full details on the conference, its venue, and instructions on how to submit your abstract can be found at: http://www.sebiology.org/meetings/-Salzburg2012/Salzburg.html Overview Recent advances in phylogenetics, genomics, physiology and paleobiology have brought major advances in our understanding of how physiological processes have evolved in autotrophic organisms (microbes and plants). This session will bring together leading figures in each of these fields, aiming to provide a stimulating, multidisciplinary view of physiological trait evolution and, tackling a number of key questions. What were the important evolutionary innovations in the history of autotrophic organisms? What do we know about the origins of these physiological processes? What are the key drivers of trait diversification? Does selection favour distinct combinations of physiological traits? What are the biophysical constraints on the adaptive landscape? How have the same physiological syndromes evolved independently in multiple lineages? How have past evolutionary events changed the Earth System, and how will ongoing global change drive physiological adaptations in wild and agricultural plant species? We welcome contributions in any of these areas.

Speakers * Bill Martin (Heinrich Heine University) - Cyanobacterial phylogenomics and the origins of plastids. * David Beerling (University of Sheffield) - The deep evolutionary origins of stomatal physiology. * Paul Falkowski (Rutgers University) - The microbial engines that drive Earth's biogeochemical cycles. * John Raven (University of Dundee) - Carbon dioxide fixation by autotrophs: alternatives to the Benson-Calvin cycle. * Howard Griffiths (University of Cambridge) - Photosynthesis in early land plant life forms and the origins of carbon concentrating mechanisms. * Lawren Sack (UCLA) - Adaptation of leaf venation in terrestrial plant radiations. * Erika Edwards (Brown University) - A phylogenetic perspective on the evolution of succulence. * Lisa Donovan (University of Georgia) - Evolution of the leaf economic spectrum and related traits. * Pascal-Antoine Christin (Brown University) - Drivers of the repeated origins of carbon concentrating mechanisms. * Jonathan Leake (University of Sheffield) - Co-evolution of trees and mycorrhizal fungi drives mineral weathering, carbon and phosphorus cycles. * Taylor Feild (University of Tennessee) - The power of pipelines - innovation in vascular transport design and angiosperm re-engineering of Cretaceous ecosystems.

Sponsorship This Plant Session is jointly sponsored by the Society for Experimental Biology (SEB) and the British Ecological Society (BES), through the Plant Environmental Physiology Group.

We look forward to seeing you in Salzburg!

Colin Osborne (c.p.osborne@sheffield.ac.uk)

Dept. Animal and Plant Sciences University of Sheffield

tel: +44-114-222-0146 lab pages: http://-web.me.com/colin.osborne/lab/home.html ecological informatics: www.grassportal.org c.p.osborne@SHEFFIELD.AC.UK

UJyvaskyla Finland Biodiversity Feb27-28 Registration

Event: Progress in understanding the origins of biodiversity Date: 27-28 February 2012 Location: University of Jyvaskyla, Finland

We are pleased to announce open registration for the conference Progress in understanding the origins of biodiversity organized by the EU Marie Curie Initial Training Network SPECIATION. This event will be held 27-28 February 2012, Jyvaskyla, Finland. The conference will consist of plenary sessions, four symposia and posters covering recent advances in speciation and adaptation research. There is limited space available for talks by participants.

Invited speakers:

Mark Kirkpatrick, University of Texas, USA John Willis, Duke University, USA Anne Magurran (University of St Andrews, UK) Daven Presgraves, University of Rochester, USA Kerry Shaw, Cornell University, USA Patrik Nosil, University of Colorado, USA

Organizers: Anneli Hoikkala, Emily Knott, Maaria Kankare, Venera Tyukmaeva and Jackson Jennings on behalf of the Marie Curie ITN

Information about the meeting and access to registration is available on our website http://-sites.google.com/site/itnspeciation/conferences/-jyvaskylaconference2012 . If you have any questions please contact Venera Tyukmaeva venera.v.tyukmaeva@jyu.fi

– Venera Tyukmaeva Evolutionary Genetics Group Centre of Excellence in Evolutionary Research Department of Environmental and Biological Science P.O. Box 35, 40014, University of Jyväskylä, Finland

Tel. +358-14-260 4253 Room: YAC421.1

Venera Tyukmaeva <venera.v.tyukmaeva@jyu.fi>

UNottingham PopGenetics Jan4-7

Registration is now open for the 45th Population Genetics Group (PGG or PopGroup), to be held at the University of Nottingham, UK, January 4th-7th 2011. See http://www.populationgeneticsgroup.org. This year, invited speakers include Professors Hopi Hoekstra, Michael Lynch and Steve Jones.

PopGroup is an informal international meeting which annually brings together up to ˜200 scientists working in all areas of population genetics and evolutionary biology. Talks and posters from early career scientists are particularly encouraged. The conference is officially registered with the Genetics Society as a special interest group.

Registration fees include everything, except for accommodation which must be booked separately. There is an early-bird incentive - if you book by Thursday 24th November then registration fees are £160 (full), £150 (full + Genetics Society member), £140 (student), £130 (student + Genetics Society member). If you book after this date, then fees will be raised by £10. Registration and booking of accommodation CLOSES on FRIDAY 9th DECEMBER.

The website of the Population Genetics Group can be found at http://www.populationgeneticsgroup.org Confirmed sponsors include The Genetics Society, The Royal Society and Oxford University Press.

The organisers: Angus Davison, John Brookfield, Sara Goodacre, and Tamsin Majerus.

– Dr. Angus Davison School of Biology University Park University of Nottingham NG7 2RD

0115 8230322 www.angusdavison.org Angus.Davison@nottingham.ac.uk

UOregon EvoDevo Feb10-12

Dear Colleagues,

Students and faculty affiliated with the University of Oregon's NSF IGERT program on evolution, development and genomics would like to announce that registration is now open for our symposium, titled: "The Future of Evo-Devo - Genomes in context: systems, populations and environment."

The symposium will be held February 10 - 12, 2012 in Portland, OR at the Nines Hotel. Previous IGERT symposia have featured talks from many leaders in the field and received good publicity in Science. We have every expectation that this symposium will be equally

engaging and positively influence the future of the field. Confirmed speakers include:

Peter Andolfatto (Princeton) Bill Bradshaw & Chris Holzapfel (University of Oregon) Anna Di Rienzo (University of Chicago) Paul Hohenloe (University of Idaho) Alexander Johnson (UCSF) Michael Levine (Berkeley) Antonia Monteiro (Yale) Dave Parichy (University of Washington) Matt Rockman (New York University) Karen Sears (University of Illinois) Gunter Wagner (Yale) Shozo Yokoyama (Emory)

For more information, please visit the symposium website (www.evodevo2012.org) and see the attached flyer.

We have deliberately capped registration for this symposium in order to facilitate a more intimate environment and to encourage free discussion between attendees and speakers. As such, if you are interested in attending, please register early to ensure that you will join us as we discuss the future of evolution, development and genomics.

We hope that you can join us in shaping the future of this interdisciplinary field.

Sincerely, The Evo Devo 2012 programming committee

danderso@uoregon.edu

UOxford EcolEvolStudent Jan4-6

Dear Colleagues,

We are pleased to announce that registration is open for the 2012 Edward Grey Institute of Field Ornithology 'Ecology and Evolution' Student Conference, to be held on 4th to 6th January 2012.

The conference will take place in the University of Oxford at the Department of Zoology, and it is the aim of the conference to provide a setting for students of various research areas within ecology and evolution to present and discuss their work in a constructive atmosphere composed mainly of their peers. In addition to student talks and posters, the conference will consist of a number of plenary talks given by distinguished investigators. This year will see the conference broaden its scope to embrace ideas derived from non-ornithological systems, offering the ideal opportunity for interaction and exchange of ideas with peers and experienced researchers from a wide variety of disciplines. There will also be opportunities for students to attend workshop sessions during the conference.

Confirmed Plenary Speakers:

Virpi Lummaa (University of Sheffield) Stuart West (University of Oxford) Tim Birkhead (University of Sheffield) Gavin Thomas (University of Bristol) (Additional Speakers TBC)

For more information, and to register for the conference, please visit the conference website: http://www.zoo.ox.ac.uk/egi/newsevents/conference.htm The registration fee includes workshop attendance, refreshments, a wine reception and also lunch and an end-of-conference banquet in one of Oxford?s most beautiful colleges, Trinity College.

If you would like to present at the conference, please submit an abstract of 100 words or less to egiconference@zoo.ox.ac.uk stating either talk or poster (indicating landscape or portrait).

The closing date for the submission of abstracts is 5th December 2011.

Please forward this information on to all those who may be interested in the conference, and we look forward to welcoming you to Oxford in the New Year!

Best wishes,

EGI Student Conference Organising Committee

christopher.cooney@keble.ox.ac.uk

UPorto Portugal Biodiversity Dec5-6 2

RECALL - TiBE2011, Trends in Biodiversity and Evolution: New Challenges in Conservation Genetics

We are pleased to announce that registrations are NOW open to the third edition of TiBE2011, Trends in Biodiversity and Evolution, conferences organised by CIBIO (Research Centre in Biodiversity and Genetic Resources, University of Porto, Portugal; http://cibio.up.pt) and InBio Associate laboratory.

Contacts: Web-page: http://cibio-tibe.org/tibe2011 e-mail: tibe2011@mail.icav.up.pt Phone: +351 252660411 Fax: +351 252661780

Address: Campus Agrário de Vairão, 4485-661 Vairão, Portugal

TiBE, Trends in Biodiversity and Evolution, is an annual meeting organised by CIBIO, Research Centre in Biodiversity and Genetic Resources/InBio, Associate

laboratory. These meetings aim to bring together senior researchers, post-graduate and graduate students in Biological Sciences, and promote a relaxing but insightful discussion about cutting edge topics on Biodiversity and Evolution. Each year a specific subject will be chosen, and recognized senior scientists will be invited to report their views, opinions and novel results. Young researchers and post-graduate students will also be invited to participate and present their recent and innovative work.

TiBE2011 will be devoted to "New Challenges in Conservation Genetics", a discipline which has received considerable attention in recent years by evolutionary biologists, and has voraciously incorporated many technologies to speed up and increase the accuracy of conservation decision-making. It will take place at December 5 - 6th in Campus Agrário de Vairão, University of Porto, and will be hosted by ConGen- Conservation Genetics and Wildlife Management research group, at CIBIO.

The scientific program will include four invited plenary lectures from prominent researchers, 16 oral communications (to be selected from participants) and 2 poster sessions covering the most up-to-date findings in this field of evolutionary biology. We hope that the University Porto-Campus of Vairão, located in a beautiful rural area in Vila do Conde (20 km north of Porto), will provide an excellent atmosphere for such scientific forum in one of the most interesting and stimulating areas of Biology.

The programme of TiBE2011 edition can be found at http://cibio-tibe.org/tibe2011 Registrations and abstract submission are NOW open!

raquel.vasconcelos@mail.icav.up.pt

Vienna Evolution Nov15

The evolVienna autumn symposium will take place on Tuesday November 15th at IST Austria (www.ist.ac.at) Speakers will cover the wide variety of evolutionary research in the Vienna area, ranging from the evolution of RNA to the evolution of language. We will also discuss graduate teaching in evolutionary biology. Afterwards, there will be a buffet & drinks.

Please register for participation and shuttle bus with Marie.Trappl@ist.ac.at, by a week in advance

More information int he webpage of the symposium: http://ist.ac.at/news-media/events/event-detail/-article/evolvienna-autumn-symposium/1/ Hope to see you all! The organizers EvolVienna Autumn Symposium 2011. http://www.univie.ac.at/evolvienna/ PS: In the webpage you can find the announcement in a PDF. Also a high resolution A3 poster (compressed TIFF) can be downloaded; we would appreciate if it is printed and posted.

"Harold P. de Vladar" <hpvladar@ist.ac.at>

GradStudentPositions

ArizonaStateU EvolutionaryBiol

GRADUATE PROGRAM IN EVOLUTIONARY BIOLOGY

The Evolutionary Biology PhD program at Arizona State University is recruiting students for entry in the Fall 2012 semester. This new program is interdisciplinary by design and enables faculty and students using diverse models and technologies to engage in novel and innovative research to answer questions related to a number of disciplines including ecology, behavior, physiology, population genetics, bioinformatics, and anthropology.

General information about the program as well as the application process and materials can be found at: http://sols.asu.edu/grad/evo_bio.php Interested candidates are strongly encouraged to contact listed faculty to inquire about potential openings, fellowships, and general questions about research projects.

Program questions can be directed towards either of the Evolutionary Biology program chairs:

Michael Rosenberg (msr@asu.edu) Brian Verrelli (brian.verrelli@asu.edu)

Brian C. Verrelli, Ph.D. Associate Professor School of Life Sciences Arizona State University Tempe, AZ 85287-4501 Tel: 480-965-0398 E-mail: brian.verrelli@asu.edu

bverrell@asu.edu

Bonn Germany ComparativePhylogeography

PhD opportunity: Comparative phylogeography of South African beetles, Museum Alexander Koenig, Bonn, Germany

A three-year PhD position (earliest beginning: 01.12.2011) in evolutionary biology is available at the Zoological Research Museum Alexander Koenig (ZFMK, section Coleoptera) in Bonn, Germany. We are seeking a postgraduate student keen on exploring patterns of speciation and diversity in South African Scarab beetles incorporating molecular systematics routines, niche modelling and morphological work including morphometrics. The candidate will take part in the DFG-funded project Comparative phylogeography of South African chafers, that aims to understand the evolutionary processes underlying the exceptional diversity of herbivore chafer beetles (Coleoptera: Scarabaeidae) in southern Africa using a combination of phylogenetic, morphological, macroecological and biogeographical data. The successful candidate is expected to work in a team composed of MSc/BSc students, taxonomic experts, and ecological niche modellers.

The positive, team-oriented candidate will be expected to join field work, conduct high-throughput DNA lab routines, process and manage sequence data, analyse sequence data, conduct comparative analyses, model species distribution and niches, help to supervise MSc/BSc students working in the project, and take part in conferences. Desired would be experiences in digital imaging and preparation of insects as well as in molecular systematics and DNA labwork. Candidates with specific experience in morphometrics and/or bioinformatics are encouraged to apply as well.

The applicant should hold a Master in biology or related disciplines and a driving license. S/he must be able to work independently, but also be willing to cooperate in the project team. The position is available from 1 December 2011, and funding is available through October 2014. Aside from field work, the position will be based at the ZFMK in Bonn. The ZFMK is one of the largest natural history research museums in Germany, including the new Center for Molecular Biodi-

versity with sections of bioinformatics, barcoding and genomics. The combination of classical museum work and various cutting-edge approaches at ZFMK attracts researchers and students of all levels, resulting in a vibrant atmosphere.

Bonn is an attractive university town, widely recognized for its high quality of life, lively culture and arts scene, easy access to natural areas paired with close proximity to large cities like Cologne and Duesseldorf. Costs of living are moderate, and public transport or bicycle paths are easy transportation options. Salary is according to grade TV-L 13 in the German Public Service scheme.

The ZFMK advocates gender equality. Women are therefore strongly encouraged to apply. Disabled people with equal qualifications will be favoured.

To apply, please submit a letter of interest, CV, relevant reprints (up to five) and phone & email addresses of two references to Forschungsmuseum Alexander Koenig, Heike Lenz, Adenauerallee 160, 53113 Bonn or h.lenz@zfmk.de. The letter of interest should explicitly address relevant experience/expertise as listed above. Review of applications will start October 31, 2011 and continue until the position is filled. Any questions about the position should be directed to Dirk Ahrens (d.ahrens.zfmk@uni-bonn.de).

Dr. Dirk Ahrens Zoologisches Forschungsmuseum A. Koenig Adenauerallee 160 53113 Bonn Germany Tel. 0228-9122 286 Email: d.ahrens.zfmk@uni-bonn.de

Dirk Ahrens <ahrens.dirk_col@gmx.de>

BrownU PopulationGenetics

SEEKING PH.D. STUDENTS INTERESTED IN THE POPULATION GENETICS OF ADAPTATION. Graduate research opportunities are available at Brown University under the supervision of Professor Daniel Weinreich to commence September 2012.

The Weinreich lab is broadly interested in how genetic novelty fuels evolution by natural selection. Using tools from computer science and mathematics we model the evolutionary consequences of epistasis (functional interactions) within the genome. This motivates complementary experimental work using techniques of molecular biology, microbiology and protein biology to measure patterns and causes of epistasis within genes and genomes of bacteria and bacteriophage. This experimental work in turn drives novel theory. Please see http://research.brown.edu/-myresearch/Daniel_Weinreich for further details on current work in the lab.

The ideal candidate will be intellectually curious, mature, creative and highly motivated. Comfort with quantitative reasoning is perhaps more important than any particular training or coursework.

Professor Weinreich accepts students through the Department of Ecology and Evolutionary Biology (http://www.brown.edu/Departments/EEB/-graduate/index.htm; deadline: Dec 9), the Center for Computational and Molecular Biology (http://-www.brown.edu/Research/CCMB/PhD.htm; deadline: Jan 3) and the Brown/MBL program (http://-www.mbl.edu/brown/). He is also a trainer in the Brown graduate program in Molecular Biology, Cell Biology, and Biochemistry (http://www.brown.edu/-Departments/Molecular_Biology/Grad_Program/; deadline: Jan 6).

Brown University is located in Providence, Rhode Island, one of the oldest cities in the United States and now an exciting and eclectic mix of communities with beautiful architecture, a diverse nightlife and ready access to Newport, Boston and New York City as well as to Block Island, Cape Cod and the mountains of northern New England.

Interested students are encouraged to contact Dr. Weinreich directly by email weinreich [at] brown.edu.

Daniel M. Weinreich, Assistant Professor Department of Ecology and Evolutionary Biology, and Center for Computational Molecular Biology Office: 300 Walter Hall, 80 Waterman Street Lab: Sydney Frank Hall/LSB 157, 60 Olive Street Brown University, Providence, RI 02912 Office phone: 401/863-3937 lab 3-2749 fax 3-2166 http://research.brown.edu/myresearch/-Daniel_Weinreich daniel_weinreich@brown.edu

CentralMichiganU 2 AquaticPopulationGenetics

Two (2) Graduate Student Positions Available, beginning summer 2012 Closing Date: March 1st, 2012

Description: Two graduate positions are available for full-time students wishing to pursue a Master of Science degree in Biology with an emphasis in aquatic molecular ecology at Central Michigan University. Ac-

cepted applicants will work with Dr. Andrew Mahon on projects involving molecular detection in aquatic systems, population genetics, biodiversity monitoring, and/or phylogeography. These projects aim to use modern molecular methods in combination with significant field research to address important scientific questions on local, regional, and global scales. Depending on projects chosen, there is potential for international travel or partial residency at the Central Michigan University field station on Beaver Island (Lake Michigan). Student funding of up to $21,000/year is available in the form of research and/or teaching assistantships. In addition, tuition waivers are available (subject to annual renewal).

Interested parties should first contact Dr. Mahon directly at (contact information below) with a statement of interest and current CV. Additional information on potential research projects can be found at the Mahon Laboratory website (see below). Information and application materials for the Master of Science in Biology at CMU are available at the Biology Department website (http://www.cst.cmich.edu/units/bio/grad.htm).

The successful applicant will have a Bachelors of Science in a biological field as well as general experience with molecular techniques and undergraduate research experience. To be eligible for consideration students must be admitted to the Graduate School at CMU (http://www.grad.cmich.edu/-forms.htm) and have a completed graduate assistantship application (http://www.cst.cmich.edu/-units/bio/GAAPPLICATION.doc) to the Department of Biology. Desired start date for incoming students to the Mahon laboratory is early summer 2012 (May/June; start date negotiable).

Contact: Dr. Andrew Mahon Institute for Great Lakes Research Department of Biology 183 Brooks Hall Central Michigan University Mt. Pleasant, MI USA Web Address: http://www.cst.cmich.edu/users/-mahon2a E-mail: mahon2a@cmich.edu Phone: 989-774-1177

mahon2a@cmich.edu

CityUNewYork 2 PopulationGenomics

Ahoy, the Hicker-lab is now recruiting for 2 open and funded PhD positions at the CUNY (City University of New York) Graduate Center to start in the Fall of 2012. We are looking for interesting students who want to explore the interface between population genomics and community ecology, and those with strong computational and/or quantitative backgrounds are especially encouraged to apply.

The Hicker-lab is now dually equipped for both 'wet' and "dry' research activities thanks to a newly refurbished and expanded Molecular Ecology and Computational Biology lab (http://qcpages.qc.cuny.edu/-Biology/Hickerlab/index.html). Students working in simulation-based evolutionary modeling of any sort can also take advantage of CUNY's NSF-funded High Performance Computing Center (http:/-/www.csi.cuny.edu/cunyhpc/)

New PhD students will be free to explore a wide range of topics yet may be interested in exploring some of our new directions: 1. collecting and analyzing nexGen data from multiple co-distributed non- model species in order to explore how ecology, climate change and natural selection drive evolutionary change in multi-species assemblages; and/or 2. developing and deploying complex multi-taxa population genomic models that can incorporate cyclical climate shifts and realistic patterns of recurring isolation and admixture across co-distributed taxa.

A sampling of our current activities includes 1. Metacommunity Assembly and Comparative Phylogeography of Eurasian Gallwasp/Parisitoids (in collaboration with Graham Stone's lab - http://-homepages.ed.ac.uk/amegilla/home) 2. Comparative Phylogeography of Small Mammals in Montane Africa 3. Demographic and evolutionary histories of Atlantic Syngnathids 4. Quantifying fish prey via nexgen DNA barcoding (in collaboration with Chris Meyer - http://invertebrates.si.edu/staff/meyer.cfm) 5. Avian speciation times 6. Species distribution modeling of Intertidal taxa (in collaboration with Eric Waltari - http://www.sci.ccny.cuny.edu/biology/-Carnaval/Ca- rnaval_Lab/Eric.html) 7. Population Genomics of LINE retrotransposons in vertebrates (in collaboration with Stephane Boissinot - http:/-/qcpages.qc.edu/Biology/Boissinot/Boissinot.html) 8. Population genetics of Hucho taimen in Mongolia (in collaboration with John Waldman - http:/-/qcpages.qc.edu/Biology/Waldman/Waldman.html) 9. How The Mississippi River Functions As An Engine Of Species Diversification (in collaboration with Frank Burbrink - http://163.238.8.180/ ˜ fburbrink/-) 10. Developing the new experiential course Anthropological Genomics - https://docs.google.com/-Doc?id=3Ddcrss6d8_75g6z74bfr (in collaboration with Kate Pechenkina - http://qcpages.qc.edu/anthro/-pechenkina/pechenkina.html) 11. MTML-msBayes

(in collaboration with Naoki Takebayashi - http://-raven.iab.alaska.edu/~ntakebay/)

Funding for the two PhD positions partially comes from a collaborative NIH grant to Mike Hickerson and Stephane Boissinot which will offset two years of teaching for the two PhD students. The CUNY PhD program guarantees the students annual stipends, full tuition waver and benefits for the full 5 years.

The Setting: The CUNY PhD sub-program in Ecology, Evolution and Behavior brings together a strong phylogenetics/phylogeography group spread across several CUNY campuses and the AMNH (http:/-/biology.gc.cuny.edu/eeb/faculty), and last year 4 CUNY PhD students obtained NSF DDIG or predoctoral fellowships. There are a fair number of Evolution and Ecology groups in the larger NYC area (i.e. Rutgers, Columbia, NYU, AMNH, New York Botanical Garden, Yale and Stony Brook) and these along with the CUNY Graduate Center's new Initiative for the Theoretical Sciences (https://sites.google.com/-site/itsgccuny/evolution) all make one's calendar full of interesting seminars and workshops. While graduate coursework is done at the CUNY Graduate Center in midtown Manhattan, the lab is in Flushing Queens, (a great place for adventurous eaters). The NYC subways run all day and night and students can live in any number

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CityUNewYork ConservationGenetics

A position for a PhD student at the Graduate Center, City University of New York is available through the Conservation Biology laboratory of Dr. Eugenia Naro-Maciel, College of Staten Island, starting Fall 2012.

Compatible candidates should be interested in one of two areas: 1) investigating genetic relationships among and within species in order to understand patterns and processes of molecular evolution, and to inform conservation strategies; 2) restoration ecology. There are several current research projects ranging from ecological and genetic research at Freshkills Park in Staten Island, formerly one of the world's largest landfills, to conservation genetics or genomics (please see below). Students are also welcome to develop their own original projects related to the Freshkills Park ecosystem, or to develop new ideas in conservation genetics, genomics, or bioinformatics.

To fill this position the student must be accepted to the CUNY Graduate Center (please click to see information for prospective students: http://www.gc.cuny.edu/-prospective_students/index.htm).

Interested students are requested to email a cv and cover letter, including research interests, GRE scores, and grades to Eugenia.NaroMaciel@csi.cuny.edu

TURTLES OF FRESHKILLS PARK, A RECLAIMED ECOSYSTEM Freshkills Park on Staten Island was until recently the largest landfill in the world and is now undergoing the remarkable process of being transformed into a park. Habitat alteration constitutes the top threat to biological diversity globally, yet the extent to which reclamation efforts like this can reverse biodiversity loss is poorly known. Turtles are long-lived reptiles occupying high positions in the food web with species-characteristic responses to disturbance. Their longevity allows for long term individual monitoring, and their sedentary nature and place in the food web makes them excellent indicators of ecosystem health. Surveys of Freshkills have found several turtle species, however their population biology remains unknown. Starting in 2012 we will carry out the first research on turtle abundance, distribution, health, and genetics in this unique reclaimed ecosystem. The study will involve students in research and provide data needed for management.

POPULATION GENETIC STRUCTURE Protected areas form the cornerstone for conservation planning worldwide; however, protecting an area does not automatically achieve conservation outcomes. Sea turtles and other highly migratory organisms protected in one area may face threats when moving to other localities. Understanding the linkages between groups in protected areas and outside them is key to effective conservation. We are therefore investigating the population distribution of highly migratory sea turtles throughout the world's oceans (Naro-Maciel and Fomia 2006; Naro-Maciel et al. 2007; Caraccio et al. 2008; Monzon-Arguello et al. 2010). Identifying migratory connections is particularly challenging in the case of highly migratory organisms such as sea turtles, which spend much of their lives hidden from view moving throughout the oceans. We are using genetic analysis to understand the connections between sea turtle populations. By determining the unknown linkages between feeding

grounds and other regional breeding or feeding sites, we will better understand the range of these turtles, identify regional management partners, and determine conservation priorities.

DNA BARCODING DNA barcoding is a global initiative that provides a standardized and efficient tool to catalogue and inventory biodiversity, with significant conservation applications (http://-www.barcoding.si.edu/whatis.html). To obtain DNA barcodes of marine turtles, we sequenced a segment of the cytochrome c oxidase subunit I (COI) gene from eighty turtles of all seven species in the Atlantic and Pacific Ocean basins. To further investigate genetic variation, we sequenced green turtles (Chelonia mydas) from nine additional Atlantic/Mediterranean nesting areas and from the Eastern Pacific. We established character-based DNA barcodes for each species using unique combinations of character states. DNA barcoding of marine turtles is a powerful tool for species identification and wildlife forensics, which also provides complementary data for conservation genetic research (Naro-Maciel et al. 2010). The project has been expanded to include DNA barcodes for other threatened turtles listed on the IUCN Red List of threatened species (Reid et al. 2011), and spiny lobsters (Naro-Maciel et al. 2011). Future efforts will focus on urban barcoding including at Freshkills Park.

EVOLUTIONARY RELATIONSHIPS Marine chelonians have inhabited the earth for over 100 million years (Hirayama, 1998). To address the lingering controversies and to recover a definitive marine turtle phylogeny, we sequenced five nuclear DNA

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ETH Zurich HostParasite

The Institute of Integrative Biology at ETH Zurich - Experimental Ecology Group - is offering a PhD position

“Alternative resistance systems in host-parasite interactions”

The project is flexible but a first aim is to use current methods (such as RAD sequencing) to identify appropriate markers for the study of host-parasite interactions in the field. Our study system involves Bombus spp. on the host side and trypanosome infections. As a background resource, the genomic toolbox for B. terrestris is currently refined and will result in an annotated genome. The project work will be based on sampling and experiments in the field and lab. We seek to understand some principles that govern the dynamics and adaptive processes in this model host-parasite system. The anticipated project is part of an ERC Advanced Grant on alternative host resistance systems and the population structure of parasites (RESIST). We look for candidates that are interested in challenging ecological and evolutionary questions and who are willing to explore new methodical tools for this purpose. A successful candidate may have some experience, for example, in molecular or population genetics, the use of gene data banks, or be familiar with the analysis of adaptation. Whatever the background, a demonstrated interest in evolutionary biology, population genetics, or ecology is an asset. The project will be embedded in an active research group with long-term experience of the system.

Starting date is negotiable, but no later than spring 2012. Please send applications (CV, Publication list, Names and emails of referees) by email to Prof. P.Schmid-Hempel (psh@env.ethz.ch), ETH Zurich, Institute of Integrative Biology, ETH-Zentrum CHN, CH-8092 Zurich (review of application starts 30 Oct until filled). Further information on ETH, the group, or life in Zurich can, for example, be obtained from www.eco.ethz.ch . paul.schmid-hempel@env.ethz.ch

ETH Zurich Speciation

Doctoral position available

Institute of Integrative Biology, ETH Zürich

In the group Plant Ecological Genetics of the Institute Integrative Biology, ETH Zürich, is a doctoral position available starting January 1, 2012.

Project title: Mechanisms of pre- and postzygotic isolation in cryptic Epichloë species

Project description: Speciation is one of the most fundamental processes in biology that leads to biological diversity. However, the mechanisms of speciation are variable in different organisms and incompletely known, particularly in members of Fungi. Epichloë endophytes

(Ascomycota, Clavicipitaceae) with its sexual species offer an ideal model system on which mechanisms of reproductive isolation, a prerequisite of speciation, can be studied. The planned research will investigate several potential pre- and post zygotic isolation mechanisms that may operate among members of genus Epichloë including a species complex with several host-associated cryptic species. The project is positioned at the interface of ecology, genetics and evolutionary biology and will involve field work as well as greenhouse and lab experiments.

We offer a supportive and stimulating environment within the plant ecological genetics group on the main campus of ETH Zürich.

We are seeking a highly motivated PhD candidate (3 year funding) with strong interests in ecological genetics and/or evolutionary biology. Candidates should have a Diploma or Master's degree in Biology or Plant Sciences.

Applications should be sent to the address given below (preferably by e-mail) and should include (1) a letter describing research motivation and experience, (2) a CV together with copies of degree certificates (graduate and undergraduate), and (3) contact details of at least two scientific referees.

Contact: Prof. Dr. A. Leuchtmann Institute of Integrative Biology Universitaetstrasse 16 CH-8092 Zurich, Switzerland e-mail: adrian.leuchtmann@env.ethz.ch phone: +41 44 632 3854

Adrian Leuchtmann <adrian.leuchtmann@env.ethz.ch>

GeorgeWashingtonU Ecology Evolution

PhD position in saprotrophic fungal community structure/function:

We are looking for graduate students to join our plant evolutionary ecology research group, beginning fall semester 2012, with the opportunity to begin fieldwork in May 2012. Support is available for student(s) to participate in an NSF-funded project, which examines the influences of plant traits on wood decomposition rates. (*We will also likely be looking for a postdoctoral scholar and/or technician for this project. Please contact me if you are interested in one of these other positions*).

In the project, we are exploring how plant traits influence community structure and function of decomposing fungi, and the consequences of these interactions for the forest carbon cycle in the Ozark Highlands Ecoregion as climate changes. The research assistant would focus on fungal identification, using both traditional techniques (field collection and culturing) and molecular methods (targeted sequencing and next-generation based metagenomics). The student would have opportunities to spend time in collaborating labs that specialize on fungal identification, enzyme analysis and genomics. Motivated students with interests or skills in mycology, molecular biology, and bioinformatics are especially encouraged to apply.

The student would join an interactive lab group (http://www.phylodiversity.net/azanne/) that broadly focuses on plant structure and function (anatomy and physiological ecology), community ecology, and evolutionary ecology, both in the temperate and tropical areas. The field project will be based near St. Louis, MO and Washington, DC and the graduate work will be completed at George Washington University. St. Louis and Washington, DC are dynamic cities with a wealth of ecologists and evolutionary biologists. In both cities, there are strong links among institutions, including ties to the Missouri Botanical Garden and the Smithsonian. George Washington University is located in the heart of DC, with easy access to numerous science, conservation, and policy based institutions.

If you are interested in working with us on the NSF project (or on other projects broadly related to the lab interests), please send an email to me (Amy Zanne: aezanne@gmail.com) with brief details about your GPA, GRE, research interests, experience, and why you want to go to graduate school. For information about applying to the program, go to the George Washington University, Department of Biological Sciences website (http://-departments.columbian.gwu.edu/biology/). The application deadline is 2 January 2012. I am also happy to answer any further questions you might have.

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Dr. Amy Zanne Department of Biology R223 Research Building One University Boulevard University of Missouri, St. Louis St. Louis, MO 63121-4400 USA

Office: S448 Stadler Phone: 314-516-6672 Fax: 314-516-6233 http://www.phylodiversity.net/azanne/

Amy Zanne <aezanne@gmail.com>

LavalU EvolutionarySystemsBiol

Opportunities for short internships for graduate students to work in evolutionary systems biology at Laval University, Quebec, Canada.

As part of the Quebec Network for Research on Protein Function, Structure, and Engineering (PROTEO: http://www.proteo.ca/en/index.html), the Landry Laboratory has access to a fellowship to host a foreign graduate student (MSc or PhD) for a short internship (from 2 to 12 months). The scholarship will cover the students travel and living expenses (transportation, housing, etc). We therefore invite applications from foreign students who would be interested to join our laboratory for a short period of time to work on the evolution of protein interactomes, the evolution of protein phosphorylation, the diversity of protein functions in natural populations of yeasts or on other aspects of protein evolution (see our website for recent publications). Both bioinformatics and experimental projects are available. The internship must start no later than March 31, 2012.

Interested candidates should send a statement of interest and a CV to:

Christian Landry <christian.landry@bio.ulaval.ca> Assistant Professor CIHR New Investigator Department of Biology Institute for Integrative and Systems Biology Room 3106, Pavillon Charles-Eugene-Marchand 1030, Avenue de la Medecine Laval University Quebec (Quebec) G1V 0A6 Canada

http://www.bio.ulaval.ca/landrylab

Christian Landry <christian.landry@bio.ulaval.ca>

Leipzig HumanOrigins

We invite applications for the Leipzig School of Human Origins, a joint graduate program of the University of Leipzig (Germany) and the Max Planck Institute for Evolutionary Anthropology.

This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a Ph.D. in anthropology, biology, evolutionary genetics, primatology, paleoanthropology and related fields. Candidates apply for one of the following disciplines of the program:

1) Comparative Primatology - focusing on the evolution of social and cultural systems in the great apes, as well as other relevant mammals.

2) Evolutionary and Functional Genomics, Ancient DNA, Molecular Anthropology and Genome Bioinformatice

a. Evolutionary Genomics, Ancient DNA - focusing on the evolutionary and functional genomics of humans and the great apes, as well as the retrieval of DNA from palaeontological remains.

b. Molecular Anthropology - focusing on the origin, relationships, history, and migration patterns of human populations.

c. Genome Bioinformatics - focusing on computational approaches to the management and analysis of gene expression data.

3) Human Paleontology, Prehistoric Archaeology and Archaeological Science - focusing on the study of hominid fossils and archaeological sites. This includes comparative morphological as well as chemical (isotopic) analyses.

Graduate students will be accepted to only one of these areas but will have the opportunity to take part in courses and seminars in all of them. Our Ph.D. program is open for international students and is designed as a 3-year-program.

We invite applications from all countries. Applicants hold a Bachelor degree with honors, a Masters degree, a Diploma or equivalent in biology, biochemistry, anthropology, or related fields.

It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September.

Candidates have to be fluent in written and spoken English. German is not required but international students will be offered opportunities to take German courses.

Ph.D. students are supported by fellowships which are provided either by the Max Planck Institute for Evolutionary Anthropology or the University of Leipzig; or have been obtained by the student.

Term of Appointment: Fall 2012 Application Deadline: January 31, 2012

Visit www.leipzig.de for information on living in

Leipzig, Germany, in the center of Europe.

Contact Information:

Sandra Jacob Deutscher Platz 6 Leipzig, 04103, Germany Telephone Number: ++493413550122 Fax Number: ++493413550119 Website: www.leipzig-school.eva.mpg.de E-mail Address: leipzig-school@eva.mpg.de

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Sandra Jacob Max Planck Institute for Evolutionary Anthropology / The Leipzig School of Human Origins (Ph.D. Programme) Deutscher Platz 6, 04103 Leipzig, GERMANY phone: ++49 (0) 341 3550-122; fax: ++49 (0) 341 3550-119 http://www.eva.mpg.de/ http://www.leipzig-school.eva.mpg.de/

Sandra Jacob <jacob@eva.mpg.de>

LMU Munich Hybridization 2

Reminder (deadline: Oct 13th):

The Ludwig-Maximilians-University (LMU) in Munich is among the top one hundred universities in the world, and part of the German Excellence Initiative. The Department of Biology (Evolutionary Ecology) seeks

A PhD students in Evolutionary Ecology

Project title: The role of hybridization in the colonization of newly opened habitats

The PhD students will participate in a collaborative research project of Justyna Wolinska to investigate hybridization between species as a creative evolutionary force that allows rapid adaptation to new environments. This project is a part of a large research initiative funded by the German Science Foundation: "Natural Selection in Structured Populations". The overarching goal of this Research Unit is the study of natural selection in realistic population settings. Because of its role as a driving force of adaptation, understanding natural selection is undoubtedly one of the most important objectives of evolutionary biology.

Specifically, the student will study how hybrid-specific traits may facilitate the colonization of novel habitats (small quarry lakes), using the *Daphnia* hybrid complex as a model system. *Daphnia* communities will be screened at the microsatellite loci and three contrasting scenarios of hybrid maintenance will be tested: survival of hybrids as clonal lineages, recurrent hybridization events or establishment of hybrids through migrants. In addition, using laboratory experiments it will be tested if hybrids have more diverse phenotypes compared to parental taxa (due to increased genetic variation in hybrid individuals). Finally, the field and laboratory data will be used for parameterization of a mathematical model, which will be developed to study the contribution of different ecological parameters to the success of hybrids. The proposed combination of empirical and theoretical approaches will advance our understanding of the role of hybridization in the colonization of new habitats and, more generally, of genetic exchange in adaptive evolution.

The main methods are: microsatellites, experiments, some mathematical modelling (in collaboration with Joachim Hermisson, University of Vienna) and a little bit of field work.

We are looking for highly motivated candidates with interests in the evolutionary ecology and population genetics. The position will be for a period of three years, and should start as soon as possible (December 2011 or soon thereafter). The students will take part in the organized PhDprogram (including attending various skills courses) of the university. The ideal candidate should have a strong background in evolutionary biology and/or population genetics. Good molecular skills, excellent communication and writing skills in English, good work ethics, and creative thinking are desired. Skills in mathematical modelling will be advantageous. A Diploma or Masters degree (or equivalent) in biology is necessary for admission. The working language in the group is English.

Applications should include 1) a letter of interest with a description of pertinent experience, 2) curriculum vitae, 3) abstract of the master/diploma thesis, 4) a list of publications (if any), 5) the names (with e-mail addresses) of three potential referees. Applications should be submitted as a SINGLE (!) PDF document to the following e-mail address:

wolinska@bio.lmu.de

Please submit your application by 13 October 2011.

For further information, consult Justyna Wolinska: wolinska@bio.lmu.de

http://sci.bio.lmu.de/ecology/evol_e/-people_wolinska_e.html http://www.mabs.at/-hermisson/index.html – Justyna Wolinska Ludwig-Maximilians-Universität München Department Biologie II Evolutionsökologie Grosshaderner Str. 2 82152 Planegg-Martinsried, Germany

Phone: +49 (0)89 2180 74201 Fax: +49 (0)89

2180 74204 email: wolinska@bio.lmu.de http://-www.biologie.uni-muenchen.de/ou/ecology/evol_e/-people_wolinska_e.html justyna.wolinska@gmail.com

ManchesterMetroU 2 Conservation

Two conservation oriented PhD projects are being advertised at Manchester Metropolitan University. Please see descriptions and details below.

**** Position 01 PhD: Population viability and conservation of African Grey Parrots on the island of Príncipe, Gulf of Guinea (post number SE/008)

The PhD studentship, to be supervised by Stuart Marsden, Ed Harris (MMU) and Nigel Collar (BirdLife International) will be awarded on a competitive basis and is only available to Home and EU candidates. The project will involve long periods spent in the field in Principe, collecting a wide range of ecological and interview data on nest distribution, success, capture histories, bird abundance etc. The studentship will include full-time tuition fees and a subsistence bursary (£12,000 p.a.) for 36 months. Candidates should submit their application using the Manchester Metropolitan University's application form to study for a postgraduate research degree, found at http://www.red.mmu.ac.uk/-?pageparent=4&page_id=147. Closing date for applications: 28 October 2011. Please contact Stuart Marsden (s.marsden@mmu.ac.uk) for further details.

Position 02 PhD: Biodiversity, livelihoods and carbon in reforested and other human-dominated lands of West Africa

This full-time PhD project, supervised by Stuart Marsden and Martin Jones (MMU) aims to examine, over an extensive area of Sierra Leone, the nature of human-dominated non-forested lands, and evaluate the importance of different land use types for selected plant and animal groups, human livelihoods, and carbon storage/sequestration. The goal is to understand how these habitats contribute to important ecosystem services, and how, against a realistic economic backdrop, this value might be managed for better effect. Full-time fees for a UK/EU student will be paid along with food, accommodation, equipment, transport costs and international flights associated with the PhD plus a stipend of at least £2000 per year. The student will be based for long periods at the Atlantic Whale Foundation's centre near Freetown, Sierra Leone. Applications are invited on an informal basis before 1st November 2011. Contact Stuart Marsden (s.marsden@mmu.ac.uk) for more details.

W. Edwin Harris Division of Biology and Conservation Ecology School of Science and the Environment Manchester Metropolitan University Manchester, M1 5GD

E.Harris@mmu.ac.uk

MississippiStateU EvolutionaryGenetics Sunflowers

The Welch Lab at Mississippi State University is looking for graduatestudents to work on two distinct projects. I am interested in recruiting bothMS and PhD students that would like to pursue a degree in Biological Sciences.(1) We are currently studying adaptive evolution at the level of geneexpression in sunflowers. Specifically, we are trying to understand the rolethat transcribed microsatellites may play in generating adaptive variation. Ourapproach combines population genetics, quantitative genetics, and functionalgenomics. We have also recently initiated collaborative work that is allowingus to study gene expression variation at microsatellite encoding loci at theinterspecific level (2) We also study the population genetics of Caribbeaniguanas. Students will be able to choose between applied conservation geneticsresearch projects as well as more basic research projects focused on theevolutionary dynamics of natural populations. Island populations of iguanas areparticularly useful for these types of studies because gene flow betweenislands is typically low, and population sizes vary providing naturalreplicates for study. This research is facilitated by extensive collaborationwith leading conservation biologists in the field. Participants in the Welchlab will primarily be asked to conduct molecular genetic analyses. However,fieldwork is highly encouraged. Four students working on iguanas have alreadyconducted extensive work in the Turks and Caicos and the Bahamas. Funding forstudents will initially be provided by means of teaching assistantships withthe potential for research assistantships dependent on the availability ofexternal funding. We are looking for students to start at any point in 2012.Please contact Mark Welch at welchATbiologyDOTmsstateDOTedu if you areinterested. Also, a CV that includes information regarding prior educationincluding coursework and grades would be appreciated. For more informationabout the Welch Lab, please visit http://-web.me.com/mark.e.welch/Site/Welcome.html . Mark

Welch <welch@biology.msstate.edu>

Montpellier MarineMammalDist

Human impact on the global patterns of marine mammal distribution and abundance

Overview: This 3-year, fully funded, PhD project, will quantify the impact of historical human activities on the global patterns of diversity and abundance of marine mammal species. It will be based at the Centre dâEcologie Fonctionelle et Evolutive, Montpellier, France, supervised by Ana Rodrigues. Application deadline: 31 October.

Key words: marine ecosystems, marine mammals, macroecology, species distribution models, sustainable management, shifting baselines

Background

We live in a human dominated planet, and the oceans are no exception. Through a combination of a growing population, mounting consumption and waste, and increasingly sophisticated technologies, human activities now impact all marine ecosystems, from the deep-sea to coral reefs, to remote islands, to the open ocean. Whereas these changes are accelerating, significant human impacts on marine systems started millennia ago. Yet because such changes took place gradually and with little recorded evidence, the full scale of the cumulative human impact on marine systems has only recently begun to be understood through anecdotal historical records showing evidence of past seas of spectacular abundance. This case of collective amnesia by the progressive adjustment to increasingly impoverished ecosystems has been termed the âshifting baselineâ. It affects not only scientific and popular perception of what natural ecosystems look like in terms of species composition and abundance, but also narrows our perception of the options available for the future.

This project will investigate the extent to which the introduction of an historical perspective affects perceptions of past human impact, projections of future change, the goals, targets and options considered, and ultimately the recommendations for conservation and management of marine natural resources. This will be done through the lens of marine mammals, a particularly interesting group given their strong and long relationship with humans, from millennia-old cave-art, to the near- obliteration of some species through commercial exploitation, to the emotional attachment felt even by many who have never been in direct contact with these species. Furthermore, some of these species have important roles in shaping ecosystems, and despite their charisma many remain very poorly known.

Objectives and methods

This project will quantify the impact of historical human activities on the patterns of diversity and abundance in marine mammal species, as a basis for conservation and management strategies at the global scale.

Specifically, the project will:

- Review and synthesise information on the historical and current distribution of all marine mammal species, both from existing datasets and by compiling scattered data from the ecological, archaeological, zooarchaeological, and historical literatures.

- Participate in the development of statistical models for predicting the current and historical global distribution of marine mammal species.

- Quantify and map the impact of historical global change on patterns of diversity of marine mammal species, using Geographic Information Systems.

- Participate in the development of a multidisciplinary reflection of the goals, targets and options for the conservation and management of marine mammals within a human-dominated planet.

- Contribute to the dissemination of the results of this project to a wide and diverse audience comprising scientists, stakeholders and the wide public.

Candidate profile

The successful candidate will possess:

- A solid academic background in ecology.

- A rigorous and detail-oriented approach to work with an aptitude for exploring and analysing historical datasets.

- Strong analytical skills, including knowledge or capacity to learn GIS and programming skills (for example in R) for the manipulation and analyses of large spatial datasets.

- Good interpersonal skills needed for working as part of a large team, and for coordinating multi-disciplinary, multi-institutional meetings involving scientists and stakeholders.

- Good command of the English language.

Institutional context

This PhD is a part of the ANR-funded MORSE project: âManagement of Ocean Resources un-

der Shifting Expectations - bringing the historical perspective into marine mammal conservationâ. The MORSE project is a partnership between the Centre dâEcologie Fonctionelle et Evolutive (CEFE CNRS UMR5175; www.cefe.cnrs.fr), the Institut de Recherche pour le DÃ©veloppement (David Kaplan, IRD UMR212, www.umr-eme.org/), and the laboratory Ecologie des systÃmes marins cÃtiers (Fabien Leprieur, ECOSYM CNRS UMR5119, http://www.ecosym.univ-montp2.fr), with the collaboration of a network of international partners.

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NetherlandInstEcol ArtificialLight Fitness

To assess the impact of artificial light on flora and fauna a large-scale project will be carried out jointly by the Department of Animal Ecology of the Netherlands Institute of Ecology (NIOO-KNAW) and the Nature Conservation and Plant Ecology Group at Wageningen University (NCP-WU), in close collaboration with the Netherlands Society for Research on Flora and Fauna (VOFF), Philips Lighting and the NAM.

For this project we are looking for a PhD student (Vacancy number AnE-011620)

Job description: In the project there have already been two post-docs appointed who are responsible for the day to day running of the project, especially the collection and analysis of the data from a large scale experiment on 32 sites. The PhD student will carry out in-depth projects on the impact of artificial light on fitness (reproduction and survival) in birds, both as part of the large scale experiment and in separate smaller scale experiments

Requirements: We are looking for an enthusiastic candidate with an MSc in Evolutionary Ecology, Animal Ecology, Behavioural Ecology or equivalent and experience with experimental work in the field. A driver licence and a licence to carry out experiments with vertebrates (i.e. article 12 of the WoD) is a plus.

Appointment: The appointment will be on a temporary basis for a maximum of 4 years and with a probationary period of 1 year. The gross salary starts at EUR 2.042,- per month in the 1st year, and will gradually increase to a maximum of EUR 2. 612,- per month in the 4th year, scale P, Collective Agreement for Dutch Universities (CAO-Nederlandse Universiteiten). Starting date is 1 January 2012, or shortly thereafter. The PhD student will be based at the Department of Animal Ecology of the Netherlands Institute of Ecology (NIOO-KNAW) in Wageningen (see www.nioo.knaw.nl).

Information: Additional information about the position is available upon request from Prof. Marcel E. Visser (m.visser@nioo.knaw.nl or +31-317-473439).

Applications: Please send your application including complete curriculum vitae and names of three referees to vacature@nioo.knaw.nl. The closing date for application is 11 November 2011, and the interviews will take place late November.

Prof. Dr Marcel E. Visser Head of Department Animal Ecology Netherlands Institute of Ecology (NIOO-KNAW)

P.O. Box 50, 6700 AB Wageningen, The Netherlands Phone: +31-317-473439 E-mail: m.visser@nioo.knaw.nl Personal page: www.nioo.knaw.nl/users/mvisser

“Visser, Marcel” <M.Visser@nioo.knaw.nl>

NorthCarolinaStateU EvolBehaviour

The research group of Dr. Lisa A. McGraw at North Carolina State University is seeking outstanding applicants for Ph.D. positions (or highly motivated Master’s students) to investigate the neurogenomic basis of social and reproductive behaviors.

Research in the McGraw laboratory combines approaches derived from molecular biology, genetics, genomics, and neuroscience rooted in an evolutionary biology framework to uncover functional links between genes, the brain and complex behaviors. Our research utilizes a unique model organism, the prairie vole. These hamster-sized rodents differ from more traditional laboratory animals in that they are highly social and socially monogamous. We employ comparative studies between prairie voles and other closely related, but asocial, promiscuous vole species to explore the neurogenomic architecture of both social and reproductive behaviors. More information about our re-

search program can be found on our website: http://-/db.tt/FLRtvynp Prospective students with interests and experience in behavior, genetics, genomics, neuroscience, molecular biology, physiology, behavioral ecology, and/or sexual selection are encouraged to contact Dr. McGraw by email (lamcgraw@ncsu.edu). Please include a cover letter including a brief statement of your research interests, a CV, GRE scores, names and email addresses of three references, and unofficial transcripts. Promising candidates will then be asked to submit full applications to the graduate program. Prospective students may then apply to either the Department of Biology (http://harvest.cals.ncsu.edu/-biology/index.cfm?pageID=3D1516) or the Department of Genetics (http://cals.ncsu.edu/genetics/-index.php/graduate/c/graduate-program-home/).

NCSU has outstanding expertise in genetics, behavior, genomics, biostatistics, and evolutionary biology. In addition, there are extensive opportunities to interact with faculty and students across departmental boundaries. In particular, our group is part of the W.M. Keck Center for Behavioral Biology (http://-www.cals.ncsu.edu/beh_bio/) which provides a multidisciplinary environment for interdepartmental training and collaborative research in the fundamental principles that govern animal behavior.

Please send application materials or direct inquiries (preferably by email) to:

Dr. Lisa A. McGraw Assistant Professor Department of Biology North Carolina State University 146 David Clark Labs Box 7617 Raleigh, NC 27695 lamcgraw@ncsu.edu 919-513-4326 website: http://db.tt/-FLRtvynp *North Carolina State University is an Equal Opportunity/Affirmative Action employer. NC State welcomes all persons without regard to sexual orientation. Persons with disabilities who need accommodations in the application process should contact Susan Marschalk, Department of Biology, via telephone at (919) 515-2741, or via e-mail at susan_marschalk@ncsu.edu *

lamcgraw@ncsu.edu

Sempach Switzerland 2 AvianEvolution

Two PhD projects in theoretical migration ecology of hoopoes at the Swiss Ornithological Institute

We are seeking two highly motivated PhD students to join our research team at the Swiss Ornithological Institute in Sempach, Switzerland. The PhD projects are embedded in the Swiss National Science Foundation funded project: "Towards a comprehensive understanding of the annual cycle in long-distance migrants: individual migration strategies and their population-level consequences".

1. PhD project: Variability in migration routes and timing within the annual cycle. This project aims at identifying migration routes and timing, their environmental determinants and at revealing individual differences in migration behaviour. We will combine information obtained from geolocators with predictions from dynamic migration models such that we yield a mechanistic understanding of migration.

2. PhD project: Consequences of individual migration strategies on population dynamics. In this project, we will investigate how an individual's migration strategy affects fitness components. In particular, we will consider several aspects of breeding behaviour and reproductive success and relate them to the migration behaviour. We will integrate these findings on the individual level to population dynamics using integrated population models.

As the major part of both projects is theoretical, the ideal candidates have a strong background and previous experience in theoretical ecology, migration and population ecology and can work both independently and as part of a team. Proficiency of a programming language such as R, WinBUGS or C++ would be an advantage. Both projects also include some field work, e.g. monitoring nest boxes, ringing, equipping individuals with and retrieving geolocators. A driving license is compulsory.

Further information on project 1 can be obtained from Silke Bauer (Silke.Bauer@vogelwarte.ch) and on project 2 from Michael Schaub (Michael.Schaub@vogelwarte.ch).

The positions are for three years with an intended starting date in January 2012. Salary is according to rules of the Swiss Science Foundation and approx. 3400 CHF per month (pre-tax) in the first year.

Applications should be submitted to Silke Bauer (Silke.Bauer@vogelwarte.ch), Swiss Ornithological Institute, 6204 Sempach, Switzerland, before 15 November 2011 and include a letter of motivation detailing research interests and experiences, stating the position applied for, a current CV and contact information of three academic referees. Interviews will tentatively take place early December 2011.

Silke Bauer PhD s.bauer@nioo.knaw.nl | www.nioo.knaw.nl/users/sbauer Dept. Animal Ecology | Netherlands Institute of Ecology (NIOO-KNAW) P.O. Box 50 | NL-6700 AB Wageningen | The Netherlands T ++31 317 473400 | F ++31 317 473 657 & silke.bauer@vogelwarte.ch| www.vogelwarte.ch/silke-bauer.html Swiss Ornithological Institute | Seerose 1 | CH-6204 Sempach | Switzerland Tel. ++41 41 462 97 85

silke.bauer@vogelwarte.ch

UBern SlugPopGenetics

PhD position - University of Bern

Invasion genetics and ecological interactions in Arion slugs

We are looking for a PhD candidate to work on a project combining genetic and ecological approaches for investigating the history and mechanisms of an ongoing Arion slug invasion. The project aims at the identification of invasion and colonization routes of the Spanish slug Arion lusitanicus that belongs to an Arion species complex, and to assess the effect of the invasive form on native relatives. The project will be mostly laboratory-based and involve marker development using high-throughput sequencing, Sanger sequencing, microsatellite genotyping, and also some fieldwork. At a later stage of the project, laboratory and field-based breeding and competition experiments will be used to investigate the mechanisms of the invasion.

We are seeking a highly-motivated, independent candidate with excellent organizational skills. The ideal candidate has a strong background in evolutionary biology, especially population genetics and phylogeography, experience with molecular laboratory work and data analysis, and interest in ecological interactions. Experience with bioinformatics is a plus but not essential. A degree equivalent to a biology diploma or M.Sc. and a valid driver's license is required. Good knowledge of written and spoken English is expected. Some knowledge of German or French would be beneficial for living in Switzerland but it is not necessary. The working language in our institute is English.

You will be supervised by Gerald Heckel (population genetics) and Eva Knop (community ecology). We offer a stimulating research environment with excellent facilities for laboratory work, computational analyses and ecological experiments. Information on the institute, the University of Bern, or life in general can be obtained from http://www.iee.unibe.ch and http://bern.ch/. For informal inquiries, please contact gerald.heckel@iee.unibe.ch

The position is funded for three years (pending final approval), and the anticipated starting date is December 1st 2011 or soon thereafter. Please send your application including a letter outlining your past research, motivation for this position and specific experience (max. 2 pages), CV, list of publications (if available), abstract of Master or Diploma thesis and contact details of 2-3 referees in a single (!) pdf file to gerald.heckel@iee.unibe.ch

Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution University of Bern http://www.cmpg.iee.unibe.ch "Heckel, Gerald (IEE)" <gerald.heckel@iee.unibe.ch>

UCBerkeley EvolutionGlobalChangeGenomics

UCBerkeley_EvolutionGlobalChangeGenomics

The Rosenblum Lab will be moving to UC Berkeley in January 2012 and will have openings for PhD students. Research in the lab focuses on the processes that generate and impact biological diversity with an emphasis on the mechanisms of rapid organismal change. We are particularly interested in both sides of the evolutionary speciation/extinction "coin" and specifically how changing environments impact these processes. Conceptually, our research addresses integrative questions with evolutionary, ecological, and conservation relevance. Methodologically, we favor an integrative genes-to-communities approach and use techniques from functional genomics to field ecology. The Rosenblum Lab will be housed in UC Berkeley's Environmental Science Policy and Management Department (ESPM), and will be affiliated with the Museum of Vertebrate Zoology (MVZ) and the Berkeley Initiative in Global Change Biology (BiGCB).

Graduate students in the lab contribute substantially to projects addressing mechanistic questions about speciation and extinction in reptile and amphibian assemblages of the western US. Specifically, we are studying adaptation and ecological speciation in White Sands lizards and disease-related declines and extinctions in

amphibians. Details on these projects can be found at http://nature.berkeley.edu/rosenblum/. There will also be several new projects, which will be shaped in collaboration with new lab members. Background in evolutionary ecology, bioinformatics, population genetics and/or molecular genetics a plus.

Please email CV and brief description of research interests to rosenblum@uidaho.edu and apply directly to the ESPM PhD program http://-ourenvironment.berkeley.edu/graduate-programs/-admissions/ . rosenblum@uidaho.edu

UCincinnati SexualSelection

PhD Student Opportunity in Evolutionary Biology & Sexual Selection

A PhD student position is available in the laboratory of Dr. Michal Polak at the University of Cincinnati.

The goal of the research is to test key predictions of the hypothesis that costly male secondary sexual traits in non-model Drosophila evolve via post-mating sexual selection: sperm competition and cryptic female choice. The doctoral candidate will work in a team setting on developing experimental lines via artificial selection, and on a comprehensive examination of correlated evolutionary responses to this selection. The research will involve using innovative laser microsurgery on the male sex comb to discriminate among competing models of sexual selection.

Funding is available through a combination of a NSF-funded research assistantship and departmental teaching assistantships. The position offers excellent benefits, a full tuition waiver, and a stipend of US$22K per annum which may be supplemented with funds (3-4K) from the University on a competitive basis. Research funds are available through the NSF grant and on a competitive basis through the department.

The successful candidate will be expected to work independently and creatively on the project and will develop her/his own research questions. The student will interact with faculty, postdocs and other graduate students in the Sensory Biology, Behavior and Evolution (SBBE) group, a vibrant community that promotes interdisciplinary research.

Qualifications include a BS or MS in Biology, minimum undergraduate GPA of 3.0 and competitive GRE scores. The position is available as early as January 2012, with the possibility also of beginning in summer or fall 2012. Application information is available at: http://www.artsci.uc.edu/collegedepts/biology/-grad/application_info.aspx Informal inquiries about any aspect of the position are welcome and can be made to Michal Polak at polakm@uc.edu

Michal Polak Associate Professor and Director of Graduate Studies, Department of Biological Sciences University of Cincinnati Cincinnati, OH 45221-0006 USA Tel: +1 (513) 556-9736 http://www.artsci.uc.edu/collegedepts/biology/-fac_staff/profile_details.aspx?ePID=Mjc5ODg%3D polakm@ucmail.uc.edu

UDelaware PlantEvolutionaryGenetics

Ph.D. – PLANT GENETICS & BIOINFORMATICS**at UD *

R. J. Wisser Laboratory of Plant Breeding & Genetics, Department of Plant and Soil Sciences, University of Delaware, Newark, DE, USA; http://-www2.udel.edu/wisserlab/ /*Seeking a student to begin spring semester, February 2012*/

Overview: An opening is now available for a Ph.D. seeking student interested in studying genome sequence variation and quantitative and population genetics in maize.

The Ph.D. candidate will be involved in an NSF-funded multi-institutional investigation addressing key hypotheses regarding the mechanistic basis of genetic variation in plant quantitative disease resistance; project title: *GENETIC AND HISTOLOGICAL DISSECTION OF PHENOTYPIC VARIATION IN RESISTANCE TO MAIZE DISEASES*. The student will develop their thesis topic based on the following project activities: resequencing of 300 diverse maize inbred lines, characterization of sequence variation across disease-associated loci and genes, and collaborative application of high-resolution association mapping. As a member of a large inter-disciplinary project team, the student will be exposed to multiple fields of study including breeding, pathology, genetics, statistics, histology, and molecular biology. The student will have educational opportunities to attend outside workshops in quantitative and population genetics or bioinformatics

as a supplement to UD coursework and present at professional conferences and travel to co-investigating laboratories to build a network with other students and co-investigators. Opportunities are available at UD to attain professional certification in bioinformatics or statistics while pursuing a Ph.D.

Qualifications: Prior research experience in genetics, statistics, bioinformatics, and/or related fields of study is required. Candidates with an M.S. degree in a related field are highly encouraged to apply.

For further details contact Dr. Randall Wisser at rjw@udel.edu. To apply for the position provide a statement of interest, CV, and contact information for three references.

Randall J Wisser, PhD Assistant Professor Department of Plant& Soil Sciences University of Delaware 531 S College Ave, 152 Townsend Hall Newark, DE 19716 office: 302.831.1356 http://ag.udel.edu/plsc/faculty/-wisser.html Randall J Wisser <rjw@udel.edu>

UDenver ComparativeGenomics

I am starting a new lab in the Department of Biological Sciences at the University of Denver in fall of 2012, but am accepting graduate student applications during the 2011-2012 admissions period (Jan 15th, 2012 is the application deadline). Below is a description of my research, and you can learn more about the Institution, my lab, and how to apply at:

http://nicholslab.wikidot.com Background: The focus of my research is on the comparative genomics, cell and developmental biology of sponges. The broader objective of this research is to address fundamental questions about the origin and early evolution of animals. Sponges have particular relevance for our understanding of animal origins because they are likely to be the earliest branching animal lineage, their feeding cells are homologous to choanoflagellates (the closest animal outgroup), and they have an ancient fossil record. Therefore, the sponge body plan X which lacks muscles, nerves and a gut X is thought to have persisted since before the Cambrian and offers a unique window into the biology of the first animals.

Evolution of Epithelia: A principle aim of the lab is to reconstruct the evolution of epithelial tissues. Epithelia have essential barrier, absorptive, secretory and structural functions that serve to regulate homeostasis between adjacent body compartments; thus, epithelia are hypothesized to have been a prerequisite for animal body plan diversification (Tyler, 2003). Whereas the epithelia of bilaterians are regulated by a conserved set of cell adhesion and polarity mechanisms, the mechanisms that regulate sponge tissues are poorly known. Using a comparative-genomic approach we have identified sponge homologs of many bilaterian adhesion and polarity proteins (Nichols et al., 2006) and have begun to study how these proteins function to regulate sponge tissues. Of particular interest is the sponge feeding epithelium (i.e., the choanoderm), which is unlike the gut of other animals in that it functions to capture and phagocytize bacterial prey. This is thought to be the most ancient animal tissue (Nichols et al. 2009), so the mechanisms that regulate adhesion and polarity in the choanoderm may reflect innovations associated with the transition to multicellularity and may be directly ancestral to the mechanisms operating in other animal tissues. In addition to using a "candidate-gene" approach, we conduct expression profiling experiments and utilize proteomic approaches to gain a more comprehensive perspective on the molecular mechanisms that regulate the sponge choanoderm.

Techniques: Techniques used in the lab include second-generation DNA- and RNA-sequencing technologies, advanced epifluorescence and confocal microscopy combined with standard techniques in biochemistry and molecular biology. Our two primary model organisms include the sponge Oscarella carmela (Eastern Pacific) and Ephydatia muelleri (lakes and streams in North America, including Colorado). Techniques:

Thanks for distributing this ad.

Best,

Scott Nichols

Scott Nichols <sa.nichols321@gmail.com>

UFlorida HawkmothSystematics

A Ph.D. position is open at the Florida Museum of Natural History, University of Florida, starting in Fall 2012 under the supervision of Dr. Akito Kawahara.

The successful applicant will work on the systematics and evolution of hawkmoths, with special focus on the evolution of anti-bat ultrasound production and hearing in Sphingidae. The project will be part of a collaborative study on the evolution and behavioral strategies of

hawkmoths and insectivorous bats. Labwork with DNA sequence data, active interaction with international collaborators, and extensive fieldwork in the tropics are expected. Experience in molecular, phylogenetic methods and/or bioinformatics is highly desirable.

For further information, please contact Akito Kawahara kawahara(at)flmnh.ufl.edu

A lab website can be found at: http://-www.flmnh.ufl.edu/mcguire/kawahara/

Akito Y. Kawahara Assistant Professor / Assistant Curator of Lepidoptera Florida Museum of Natural History University of Florida 3215 Hull Road Gainesville, FL 32611-2710 USA Tel: 352.273.2018 Fax: 352.392.0479 Email: kawahara@flmnh.ufl.edu http://-www.flmnh.ufl.edu/mcguire/kawahara/

UFlorida SexualSelection

The research group of Christine W. Miller at the University of Florida, Gainesville is seeking outstanding applicants for a Ph.D. position to investigate sexual selection and evolution in variable environments.

Sexual selection has long captured the imagination of scientists and the general public. Some of the most noticeable features of insects are related to sexual selection, including the brilliant colors and dance behaviors damselflies, the bizarre eye stalks of stalk-eyed flies, and the male fights in horned beetles. Sexually selected ornaments, weapons, and behaviors evolve and are expressed in dynamic natural environments, yet there is currently only a limited understanding about how such environmental variability influences the processes and outcomes of sexual selection. The field of sexual selection is poised to make a leap forward when improved linkages are built with the field of ecology.

We use a combination of field, greenhouse, and laboratory studies to pursue greater linkages between the fields of sexual selection and ecology. Insects provide great power for uncovering biological patterns due to their short generation times, ease of rearing and observing, and the potential for excellent sample sizes. We use tools from behavioral ecology, morphometrics, chemical ecology, and quantitative genetics to investigate mate choice and male-male competition from a variety of angles. Students may conduct their research locally, at the Smithsonian Tropical Research Institute in Panama, or at another location that is well-suited for their research interests.

The University of Florida has great expertise in evolutionary biology, genetics, behavior, and entomology and has a highly collaborative atmosphere across departments.

Gainesville is a pleasant mid-sized city (http://-en.wikipedia.org/wiki/Gainesville,_Florida) in north-central Florida, with a wide variety of outdoor recreational opportunities and a vibrant cultural life. The Atlantic and Gulf coasts are each within a 90-minute drive.

Applicants should send a cover letter, CV, GRE scores, names and email addresses of three references, and unofficial transcripts to Dr. Miller by November 15, 2011. Promising candidates will then be asked to submit full applications to the graduate program at UF for entry in Fall 2012.

Please send materials or direct inquiries to:

Dr. Christine W. Miller, cwmiller@ufl.edu

University of Florida Entomology & Nematology Dept. Gainesville, FL 32611-0620 www.millerlab.net cwmiller@ufl.edu

ULausanne ComputationalPhylogenetics

Two PhD position available

The projects, funded by the Swiss National Science Foundation, will focus on the modeling and detection of evolutionary constraints on protein- coding genes. Two positions are available that include either - a theoretical project (project A) aiming at developing models of codon evolution. The goal is to extend current Markov models used to infer nucleotide substitution within codons along the branches of a phylogenetic tree and investigate our ability to detect positive selection events on protein-coding genes. - an applied project (project B) aiming at assessing the evolutionary constraints during the evolution of the rbcL and rbcS genes in C3 and C4 grasses. The goal is to assess how the changes in photosynthetic pathway affected the coevolution between the two subunits forming the Rubisco protein.

I am looking for autonomous and ambitious students with enthusiasm for inter-disciplinary work. The students will need to interact productively with evolution-

ary biologists, ecologist, genome biologists and computer scientists, and read the corresponding range of scientific literature. Candidates must have completed their Master's degree or equivalent in a relevant field. The specific requirements for each project are the following - Project A: strong mathematical background and deep interest in theoretical aspects of phylogenetic reconstructions and bioinformatics (including programing skills). Previous experience with evolutionary biology is a plus but not a requirement. - Project B: evolutionary biology background with previous experience in molecular techniques. Competence in bioinformatics would be useful.

The successful candidates will be part of the department of Ecology and Evolution of the University of Lausanne as well as the Swiss Institute of Bioinformatics. Our research group offers a supportive and stimulating environment, with access to excellent computer facilities and molecular labs.

The positions can start as early as January 2012, but later starting dates can be negotiated. To apply, please send by email 1. a letter describing your research motivation and experience 2. a detailed CV 3. contact details of two referees

Applications are open until the position is filled. Do not hesitate to contact me for more details about the project and the application process.

Nicolas Salamin email: nicolas.salamin@unil.ch web: http://www.unil.ch/phylo and http://www.isb-sib.ch/groups/lausanne/cpg-salamin.html nicolas.salamin@unil.ch

UMelbourne AvianBehaviour

A PhD project is available to investigate the role of personalities in explaining individual differences in behaviour in a cooperatively breeding bird, the superb fairy-wren (Malurus cyaneus). The position will be based at the University of Melbourne in the Department of Zoology's Evolution and Behaviour Group, under the supervision of Assoc Prof Raoul Mulder, and co-supervised by Dr Michelle Hall.

In many animals, individuals differ consistently in suites of correlated and heritable behaviours, comparable to human personalities. Recent research suggests that personalities should influence key socio-ecological processes (e.g. dispersal, cooperation, parental investment, mate choice, and territorial defence), but they have rarely been studied in this context. The student would work with a research team using an experimental approach to determine how personality affects critical social and life-history decisions in a cooperatively breeding bird, and how early social environment contributes to the development of personality.

Interested students should email their CV, details of two academic referees, academic transcript, and a letter describing their research interests to Raoul Mulder (r.mulder@unimelb.edu.au) and Michelle Hall (hall.m@unimelb.edu.au).

The applicant will need to obtain an Australian Postgraduate Award or Melbourne International Research and Fee Remission Scholarships (for details and scholarship application forms see http://-cms.services.unimelb.edu.au/scholarships/pgrad/-home).

NOTE: Applications for these Scholarships close 31 October 2011.

Dr Michelle L Hall Research Fellow Department of Zoology, University of Melbourne Melbourne, VIC, 3010, Australia email: hall.m@unimelb.edu.au phone: + 61 3 83446232

hall.m@unimelb.edu.au

UNotreDame EvolutionaryGenomics

GRADUATE OPPORTUNITIES IN EVOLUTIONARY GENOMICS

The Graduate Program in the Department of Biological Sciences at the University of Notre Dame is recruiting doctoral students for Fall 2012 in research areas ranging from evolutionary dynamics in natural populations, climate change, speciation, and infectious diseases systems biology. Our Ph.D. program tailors training to the student's biology-centered research program and emphasizes ties to our expanding strengths in computational biology, network science and applied math. Numerous opportunities for interdisciplinary interactions among research areas are available, including our GLOBES training program http://globes.nd.edu/. The following faculty are seeking graduate students in Evolutionary Genomics:

Jeff Feder: http://biology.nd.edu/people/faculty/-feder/ Mike Ferdig: http://biology.nd.edu/-

people/faculty/ferdig/ Hope Hollocher: http://-biology.nd.edu/people/faculty/hollocher/ Stuart Jones: http://biology.nd.edu/people/faculty/jones/ Mike Pfrender: http://biology.nd.edu/people/-faculty/pfrender/ Jeanne Romero-Severson: http:/-/biology.nd.edu/people/faculty/romero-severson/ Research and teaching assistantships and a variety of fellowship opportunities are open to students. For more information regarding the Biology Graduate Program and other graduate opportunities see http:/-/biology.nd.edu/. The deadline for receipt of all application materials for the Ph.D. program is January 5, 2012, although earlier submission is encouraged to ensure full consideration for available fellowships. For additional assistance, e-mail our Graduate Recruiting Coordinator, Mike Ferdig, ferdig.1@nd.edu. Biology Department office phone: 574-631-6552

mferdig@nd.edu

UNotreDame Speciation

Ph.D. Position in Population Genomics and Ecological Speciation:

The research group of Jeff Feder at the University of Notre Dame is seeking to add an interested Ph.D. student to the laboratory to start in the Fall 2012 academic year to investigate issues related to the genomic architecture of speciation and ecological speciation.

A summary of the lab's research can be found at: http://federlab.nd.edu Our research is directed at discovering the ecological basis for population divergence, in particular, with regard to the apple maggot fly, Rhagoletis pomonella, a model for speciation-with-gene-flow. We combine field work with next generation mass sequencing to investigate how flies shift and adapt to new host plants to initiate the speciation process. Current work in this area is focused on critical adaptations involved in the physiology of overwintering diapause and fly chemoreception of host plant fruit odors that generating ecologically based reproductive isolation. We are also actively studying the how genome architecture may facilitate the speciation process and how the consequences of fly host plant shifts may cascade across trophic levels and affect the community structure of parasitoid wasps that attack R. pomonella.

The Feder lab is part of a vibrant research community in Evolutionary Ecology and Bioinformatics at Notre Dame and the student will have ample opportunity to interact with other researchers and laboratories including those of Nora Besansky, Hope Hollocher, Michael Pfrender, Jason McLachlan, Jessica Hellman, David Lodge, Beth Archie, Stuart Jones, Scott Emrich and Jeanne Romero-Severson. Funding is possible from a combination of support from research and teaching assistantships.

Interested students should contact the lab and discuss their interests with Dr. Feder(feder.2@nd.edu; 574-631-4159) and apply to the Dept. of Biological Sciences at Notre Dame (deadline Jan 1 2012) to the Ph.D. program. Information can be found at the Department web site at: http://biology.nd.edu Scott.P.Egan.28@nd.edu

UOtago MolecularEvolution

PhD Project Opportunity Available To work with Dr. Sheri Johnson and Professor Neil Gemmell Centre for Reproduction and Genomics Department of Anatomy University of Otago

Are old males still good males and can females tell the difference?

We are currently seeking a PhD student with interests in genetics, molecular ecology and behavioural ecology to conduct research into age-related decline in male fertility and age-biased female mate preference in zebrafish.

Project Description Females of many species choose to mate with old males rather than young males, presumably because they have proven survival ability that benefits offspring and female fitness. Paradoxically, sperm quality declines with male age; thus females choosing old mates may suffer reduced pregnancy rates, and increased birth defects in offspring, lowering fitness. This paradox has generated much interest, but empirical studies have invariably been observational, and have failed to control for male mating history and female age. Using a series of innovative, well-controlled, experiments in zebrafish we will determine how aging and mating history affect sperm function, the molecular processes associated with sperm function, male reproductive success and female mate preference, thus whether old males are still good males and if females can tell the difference. Improved knowledge of how fertility alters with age and other life-history factors, and the mechanisms responsible may have important consequences for conservation efforts, breeding programs for

agriculture and aquaculture, and treatment of infertility in humans.

The Ideal Candidate The ideal candidate will possess experience in molecular genetics and behavioural ecology. They will be motivated and organized, with a demonstrated capacity to master the broad skill set necessary for the successful completion of this research programme. They will be comfortable conducting live animal work that requires patience and delicate manipulations, with prior experience with fish useful, but not essential. They will be a competent laboratory work, with experience in routine molecular genetic techniques, particularly microsatellite genotyping and sequencing, and should be computer literate with familiarity with database management and statistical analyses. Minimum qualifications: B.Sc. (Hons) and/or M.Sc. in Genetics, Molecular Biology, Molecular Ecology, Behavioural Ecology or equivalent with and A- average or better.

Scholarship Funding Financial support should be available for a high achieving student with an A- average or better via a University of Otago or Departmental scholarship see http://www.otago.ac.nz/-study/scholarships/).

Eligibility The University of Otago and Departmental scholarships are open to all nationalities. However, overseas candidates for whom English is not a first language must satisfy the English Language Requirements of the University to be eligible for study (see http://www.otago.ac.nz/international/postgraduate/-index.html#englishlanguage). Other eligibility criteria are detailed here http://www.otago.ac.nz/-international/postgraduate/otago002221.html . How to Apply Interested applicants are encouraged to make informal enquiries to Dr. Sheri Johnson. Please send your Curriculum Vitae, a copy of your academic transcript, a sample of your written scientific work and the names of three referees with a covering letter to:

Dr. Sheri Johnson Centre for Reproduction and Genomics (http://www.otago.ac.nz/crg) e-mail: sheri.johnson@otago.ac.nz

Applications for this position close on 1 December 2011.

UOtago Sex reversal in fish

PhD project opportunity available at the Centre for Reproduction and Genomics, University of Otago

Investigate the molecular basis of sex reversal in sequentially hermaphroditic fish

We are currently seeking at least one, but potentially two PhD students with interests in genetics, evolution, physiology and behavioural ecology to conduct researchinto the genetic basis of sex reversal in sequentially hermaphroditic fish.

Project Description Most plants and animals irreversibly differentiate early in life becoming either males or females. However, in some groups, notably fishes, individuals begin life as one sex and reverse sex sometime later (sequential hermaphrodism). Sex reversal in sequential hermaphrodites is complete. Individuals become fully functioningmembers of the opposite sex following radical restructuring of the gonad, alterations in morphology, and modifications to behaviour. The molecular basis of this stunning transformation is unknown, but has been the subject of intense interest, not only as a means to enhance our understanding of sex determination and differentiation, but also as a spectacular example of phenotypic plasticity in response to environment. Here, we propose to experimentally induce sex reversal in a number of divergent sequentially hermaphroditic fish, including the tropical bluehead wrasse, and use new state-of-the-art gene expression analyses and comparative genomic approaches derived from the genome projects, to examine how the pattern of gene expression alters in the brain and gonad of these fish during the process of sex reversal. Using these data we expect to rapidly identify the genetic trigger and the subsequent genetic cascade that it initiates to cause sex reversal.

The Ideal Candidate The ideal candidate will possess experience in molecular genetics, genomics, evolutionary genetics and behavioural ecology, with knowledge of NGS approaches and analyses a distinct advantage. They will be motivated and organised, with a demonstrated capacity to master the broad skill set necessary for the successful completion of a research programme. They will be a competent laboratory worker, with experience of all routine molecular genetic techniques, particularly microsatellite genotyping and sequencing, and should be computer literate with familiarity with database management and statistical analyses. Minimum qualifications: B.Sc. (Hons) and/or M.Sc. in Genetics, Genomics, Molecular Biology, Molecular Ecology or equivalent with and A- average or better.

Scholarship Funding Financial support should be available for a high achieving student with an A- average or better via a University of Otago or Departmental scholarship see http://www.otago.ac.nz/-study/scholarships/).

Eligibility The University of Otago and Departmental scholarships are open to all nationalities. However, overseas candidates for whom English is not a first language must satisfy the English Language Requirements of the University to be eligible for study (see http://www.otago.ac.nz/international/postgraduate/-index.html#englishlanguage). Other eligibility criteria are detailed here http://www.otago.ac.nz/-international/postgraduate/otago002221.html . How to Apply Interested applicants are encouraged to make informal enquiries to Professor Neil Gemmell. Please send your Curriculum Vitae, a copy of your academic transcript, a sample of your written scientific work and the names of three referees with a covering letter to:

Professor Neil J. Gemmell Centre for Reproduction and Genomics (http://www.otago.ac.nz/crg) e-mail: neil.gemmell@otago.ac.nz

The position will remain open until filled, University of Otago Scholarships now available year round. It would be desirable however for the successful applicant to be able to start in early 2012.

[cid:B20079DE-E767-4405-A2ED-DD5904FFE6F4]

Neil J. Gemmell Professor and Director Centre for Reproduction and Genomics Department of Anatomy University of Otago, PO Box 913 Dunedin 9054 New Zealand

Phone: +64 3 479 6824 Fax: +64 3 479 7254 e-mail: neil.gemmell@otago.ac.nz website: www.crg.org.nz neil.gemmell@otago.ac.nz

URhodeIsland GlobalChangeEvolution

GRADUATE POSITION IN GLOBAL CHANGE & EVOLUTION AT U RHODE ISLAND

I invite applications from motivated students for graduate degree work in the area of evolutionary ecology and evolutionary genetics of invasive species at the University of Rhode Island. Funding will be provided either as research or teaching assistantships, depending on student background and availability. Applicants should be independent, highly motivated, and possess some research and/or field experience. Students with experience using molecular techniques (i.e., DNA extraction, PCR, DNA sequencing, microsatellite genotyping) or conducting GIS-based spatial analyses are encouraged to apply.

Research in our lab generally addresses the evolutionary dynamics of biological invasions using Anolis lizards as a model system. We use molecular markers to reconstruct invasion histories and test factors that facilitate or constrain phenotypic evolution during invasions. Detailed information about my research is available at < http://web.me.com/jjkolbe >.

Prospective students should contact me (Jason Kolbe via email at jjkolbe@mail.uri.edu) and provide a short description of research interests and accomplishments, a CV (including GPA and GRE scores), and contact information for three references. I will contact suitable candidates to discuss potential graduate projects and to set up an interview.

Jason J. Kolbe Department of Biological Sciences University of Rhode Island CBLS 189, 120 Flagg Rd. Kingston, RI 02881 USA Email: jjkolbe@mail.uri.edu Website: http://web.me.com/-jjkolbe jjkolbe@gmail.com

UTennessee Knoxville Phylogenetics

The O'Meara lab at the U. of Tennessee, Knoxville, is seeking doctoral students for Fall 2012 with an interest in comparative methods, tree inference, species delimitation, and other areas of phylogenetics. Our lab group mostly focuses on method development and application of methods to existing datasets rather than on in-house dataset acquisition. However, we have active collaborations with empirical researchers on fish, herps, fungi, bats, and plants and expect that graduate students who want an empirical component to their research will have that opportunity.

Students would enroll in the graduate program in the department of Ecology and Evolutionary Biology at the U. of Tennessee, Knoxville. Our department has a great depth of phylogenetic expertise but also remarkable strengths in ecology, evolution, and mathematical biology. UT Knoxville is also home to the National Institute for Mathematical and Biological Synthesis (NIMBioS), a synthesis center similar in structure to NCEAS and NESCent. Knoxville itself has a reasonable cost of living and is home to significant natural beauty. Great Smoky Mountains National Park, home to 17,000 documented species, is about an hour away. Overall, most graduate students here appear productive and happy.

Please see my website, http://www.brianomeara.info/-lab , for more information. There are various funding

opportunities for well-qualified applicants. Much of our work involves programming, but that can (usually) be taught to motivated, intelligent students. Thus, while programming skills are a benefit, they are not required for successful applicants. Applications are due on Dec. 15, 2011, but we should be in contact well before then.

Brian O'Meara Assistant Professor Dept. of Ecology & Evolutionary Biology U. of Tennessee, Knoxville bomeara@utk.edu http://www.brianomeara.info omeara.brian@gmail.com

UWisconsin Madison PlantInsectInteractions

Graduate Research Assistantship

Plant-insect interactions and aspen genomics University of Wisconsin, Madison

A Graduate Research Assistantship (M.S.-Ph.D. or Ph.D.) is anticipated for work with Rick Lindroth and Liza Holeski at the University of Wisconsin-Madison. The Research Assistant will pursue research at the intersection of plant-insect interactions, genomics, and chemical ecology, using aspen (Populus tremuloides) as an experimental system. Primary objectives of this research include: 1) identification of the genetic basis of aspen traits, including those related to the sustainable production of aspen as a biofuel crop, 2) evaluation of genetic correlations between aspen productivity and susceptibility to herbivores, and 3) characterization of environmental effects on the expression of traits influencing productivity and susceptibility. Genomics work will be conducted in collaboration with scientists in Umeå, Sweden. The Research Assistant will also be encouraged to develop and pursue her/his own novel research interests. Applicants must be interested in investigating both genetic and chemical aspects of plant-herbivore interactions, and may pursue admission to UW graduate programs in either Entomology (Jan. 31, 2012 deadline) or Zoology (Dec. 31, 2011 deadline).

For more information about the Lindroth Group, and Rick or Liza's research interests, visit: http://entomology.wisc.edu/ ~ lindroth/ http://-entomology.wisc.edu/ ~ holeski/ The University of Wisconsin-Madison is a premier institution for research in ecology and evolution, and has ranked among the top five research universities in the United States for each of the past 20 years. Graduate students have the opportunity to participate in the thriving Ecology (http://ecology.wisc.edu/) and Evolutionary Biology (http://www.evolution.wisc.edu/) communities at UW-Madison.

Qualifications:

Highly motivated individuals with superior academic credentials and strong communication skills are encouraged to apply. Well-developed interpersonal skills are essential. Candidates must be able to work independently as well as part of a collaborative research team.

Stipend/benefits:

50% Research Assistantships currently provide a stipend of $20,400 (12 mo.), tuition waiver, and excellent medical/dental health plans at minimal cost.

Position available beginning in summer or fall of 2012.

Inquiries: Send preliminary e-mail letter of inquiry, describing research interests and academic qualifications, to:

Dr. Rick Lindroth (lindroth@ wisc.edu)

and/or

Dr. Liza Holeski (holeski@wisc.edu)

Dept. of Entomology 237 Russell Labs 1630 Linden Drive University of Wisconsin Madison, WI 53706 U.S.A.

– Liza M. Holeski Assistant Scientist Department of Entomology University of WI, Madison

http://entomology.wisc.edu/ ~ holeski Liza Holeski <holeski@wisc.edu>

UWisconsin Madison PopulationGenomics

Ph.D. Studentships in Population Genomics: The research group of John Pool at the University of Wisconsin - Madison is seeking one or two Ph.D. students to start in the Fall 2012 academic year.

A brief summary of the lab's research can be found here: http://www.genetics.wisc.edu/user/338 Our work offers the opportunity to study genetic variation at the scale of whole genomes. We also use population genomic data to identify the genetic basis of adaptive phenotypic evolution within the genetics model species, Drosophila melanogaster. The Pool lab is newly formed, but by early 2012 it will include a recently-hired postdoc, a technician, and undergraduate researchers.

As a new faculty member, I can devote ample time to helping each student's scientific development.

Interested students should apply (by December 1) to the UW Genetics Ph.D. program: http://-www.genetics.wisc.edu/node/15 The Genetics program has a strong contingent of evolution-oriented students and faculty. Students rotate in three or four labs during their first semester, and then choose a professor to work with. A large number of faculty who participate in the Genetics Ph.D. program have active research in population genetics and evolutionary genomics: http://www.genetics.wisc.edu/node/-59?q=fields8 A more complete list of evolution faculty at UW Madison is available through the J. F. Crow Institute for the Study of Evolution: http://-www.evolution.wisc.edu/ Financial support is available from training grants, research assistantships, and teaching assistantships (one semester of teaching is required).

Madison offers an exceptional quality of life in a beautiful natural setting. Downtown and campus are bordered by lakes, and the area includes a number of long distance bike trails. Madison features diverse art, music, and cultural offerings. A great farmers market and a focus on local food are complemented by a wide range of international restaurants.

Prospective students are welcome to contact me at jpool@wisc.edu

John Pool Assistant Professor Laboratory of Genetics University of Wisconsin-Madison

jpool@wisc.edu

UZurich ComputationalEpidemiology

PhD studentship in Computational Epidemiology, University of Zurich

A three year SNF funded PhD studentship in computational epidemiology is now available. This position will be located within the Section of Epidemiology, Vetsuisse Faculty, University of Zurich. Salary at standard SNF rates (starting at 40,800 CHF in the first year). This studentship is to work on the research project "Developing Bayesian Networks as a tool for Zoonotic Systems Epidemiology' and will involve close collaboration with epidemiologists from the Canadian Integrated Program for Antimicrobial Resistance Surveillance (CIPARS) www.phac-aspc.gc.ca/-cipars-picra. The main goal of the project is to develop and apply Bayesian network models to data arising from zoonotic disease systems. Planned applications include the identification of risk factors for the presence and extent of antimicrobial resistance in food animals. Further details about the project are available from the Section of Epidemiology website www.vetepi.uzh.ch/-aboutus/opportunities.html This project is at the interface of medicine (e.g one-health), applied statistics and computational biology, and as such we are looking for someone with an interest and appreciation of both biology and application driven mathematics. While it is planned that some time will be spent in Canada with collaborators from CIPARS, this project is desk based and will require a high degree of computer literacy, in particular programming in R. The University of Zurich has a range of different graduate schools and depending on the candidate it may be possible to register with either the MD/PhD programme in the Faculty of Medicine, or else the graduate school of Life Sciences or the graduate school of Mathematical Sciences where both the latter are joint schools with the Swiss Federal Institute of Technology Zurich (ETH). For entry to the graduate schools a Master's degree (or equivalent) is essential, or an MD for the MD/PhD track.

The Section of Epidemiology is a relatively new group whose research interests include zoonotic diseases, particularly the modelling of parasitic systems such as Echinococcus, along with the application of latent class methods in veterinary epidemiology, and have a wide range of ongoing collaborative projects with institutes both within Switzerland and internationally.

To apply, please send a current CV along with a covering letter and the names and addresses of two referees to Dr. Fraser Lewis, email: fraseriain.lewis@uzh.ch.This position is available immediately and will remain open until filled.

fraser.iain.lewis@gmail.com

Jobs

AdelphiU 2 EvolutionaryBiology

I'd like evolutionary biologists to be aware of two tenure-track positions that are open to them (but to others also - we always advertise broadly).

DEPARTMENT OF BIOLOGY 2 ASSISTANT PROFESSORS Tenure-Track - Fall 2012 Adelphi University invites applications for two tenure-track positions in Biology to begin Fall 2012. One position is for any area of genetics; teaching responsibilities will include genetics, genetics project lab, and introductory biology. The other position is for any area of physiology; teaching responsibilities will include physiology, human anatomy and physiology, and possibly histology. Ph.D. required; postdoctoral experience preferred. The successful candidates will have excellent potential as a teacher, a significant record of research accomplishment, and the ability to develop a fundable independent research program involving undergraduates and master's students. For more information about the Biology department, visit http://academics.adelphi.edu/artsci/bio/. Deadline for applications: November 15, 2011. Adelphi University offers a competitive salary and benefits package (including tuition remission). For detailed descriptions of any of the above positions, and to apply, please visit: http://www.adelphi.edu/positions/faculty Matthias Foellmer Assistant Professor Department of Biology, Adelphi University 1 South Ave., Garden City, New York, 11530, USA http://panther.adelphi.edu/~fo17044/MWFoellmer%20main.html (516) 877-4206

Matthias Foellmer <Foellmer@adelphi.edu>

ArizonaStateU Genomics

Faculty Position in Genomics at Arizona State University

The School of Life Sciences and The Biodesign Institute at Arizona State University invite applications for a tenure-track faculty position at the level of Assistant Professor whose research is at the interface between Genomics and Life Sciences. Research methods may

include theoretical, computational, and empirical approaches in population genetics, functional and comparative genomics, and bioinformatics. The successful candidate will be expected to develop an innovative, extramurally-funded, research program, teach at the undergraduate and graduate levels, and have a commitment to outreach and service. The successful candidate will be expected to mentor undergraduate and graduate students as well as postdoctoral fellows. A competitive start-up package and teaching load compatible with high research productivity will be provided.

Arizona State University has made a commitment to accelerating the translation of basic discoveries into practical benefits for society through the construction of state-of-the-art research facilities and the recruitment of world-class faculty members. The successful candidate will participate in university-wide health and/or sustainability initiatives supported by core facilities for functional genomics and next generation sequencing, functional proteomics, high throughput cellular screen, bioinformatics, high performance computing, and imaging. More information on genomic research opportunities at the Biodesign Institute and the School of Life Sciences at ASU can be found at http://-/genomics.asu.edu . Candidates must have a Ph.D. (or equivalent) in an appropriate field, and a minimum of 2 years of postdoctoral training is preferred. Demonstrated teaching and research excellence is preferred.

To apply, send cover letter, your curriculum vitae, three representative publications, separate statements of future research plans and teaching philosophy and interests, and contact information for three references to be sent to Alan Rawls, Chair, Genomics Faculty Search Committee, School of Life Sciences, PO Box 874501, Tempe, AZ 85287-4501. Electronic applications sent as PDF files to solsfacultysearch@asu.edu are preferred. The initial closing date for receipt of applications is November 11, 2001; applications will be reviewed weekly thereafter until the search is closed. A background check is required for employment. Arizona State University is an equal opportunity/affirmative action employer committed to excellence through diversity. Women and minorities are encouraged to apply. For additional information on this position and the School of Life Sciences, please visit http://-sols.asu.edu/jobs . Brian C. Verrelli, Ph.D. Associate Professor School of Life Sciences Arizona State University Tempe, AZ 85287-4501 Tel: 480-965-0398 E-mail: brian.verrelli@asu.edu

bverrell@asu.edu

CentreCollege Kentucky EvolutionaryBiol

Tenure-track Assistant Professor of Biology/Genetics

Centre College invites applications for a tenure-track Assistant Professor of Biology/Genetics to start in August 2012. The successful applicant will have a Ph.D. in the biological sciences with expertise in genetics andmust demonstrate a commitment to excellence in teaching and scholarship at a nationally-ranked liberal arts college. In a three-year cycle, teaching duties will include courses in introductory biology, first year studies seminar or non-majors natural science course, genetics, evolution, invertebrate biology or entomology, senior seminar, and other biology courses as appropriate. Preference will be given to applicants with demonstrated expertise in phylogenetic or phylogeographical studies of invertebrates. Collaborative research with undergraduates is expected and supported.

Centre College is a highly selective liberal arts college of 1,300 students, listed by U.S. News in the top fifty liberal arts colleges in the nation. Classes are small andacademic standards are high. The College is located in Danville, Kentucky, a town of 18,000 recognized for its high quality of life. It is within easy driving distance of Lexington, Louisville, and Cincinnati. Centre College is committed to hiring a diverse faculty of teachers/scholars. For informationconcerning the college, visit our web site at www.centre.edu To apply, please submit by post (no email applications): letter of application, statement of teaching philosophy, statement of research interest, CV, transcripts, and three letters of recommendation to: Dean Stephanie Fabritius, Centre College, 600 W. Walnut St., Danville, KY 40422. Review of applicants will begin November 1, 2011 and continue until position is filled. Centre College is an Equal Opportunity Employer.

– Benjamin P. Keck Postdoctoral Research Associate Dept. Ecology and Evolutionary Biology University of Tennessee Knoxville TN 37996

“Keck, Ben” <bkeck@utk.edu>

ColumbiaU EvolutionaryBiol

Columbia University invites applications for a Lecturer in Discipline position in the Department of Ecology, Evolution and Environmental Biology (E3B). This is a full-time appointment with multiyear renewal contingent on successful review. The department represents broad interests in ecology, evolution, behavior, conservation biology, and environmental science and maintains strong links to Columbia's Earth Institute, the American Museum of Natural History, Wildlife Conservation Society, New York Botanical Garden, and EcoHealth Alliance. (For additional information about E3B see www.columbia.edu/cu/e3b/job2). We seek a scholar with a serious commitment and proven record in research, teaching and advising (ideally at a graduate level). The chosen candidate will serve as M.A. Program Advisor and will teach a student research development seminar and other graduate and advanced undergraduate courses. The successful candidate must be research active and include students in research. Appointment will begin July, 2012.

For more information and to apply please visit our online site: https://academicjobs.columbia.edu/-applicants/Central?quickFind=55362 Review of applications will begin November 1, 2011. Deadline for applications is December 7, 2011.

Columbia University is an Equal Opportunity/Affirmative Action employer.

Dustin R. Rubenstein, Ph.D. Assistant Professor Columbia University Dept. Ecology, Evolution and Environmental Biology 10th Floor Schermerhorn Extension, MC 5557 1200 Amsterdam Avenue New York, NY 10027

Tel: 212-854-4881 Fax: 212-854-8188 Email: dr2497@columbia.edu Website: http://-www.columbia.edu/ ˜ dr2497 Dustin Rubenstein <dr2497@columbia.edu>

CornellU 2 ComputationalBiology

Two Faculty Positions in Computational Biology at Cornell University

Cornell is seeking to build on its strengths in computational biology with two new tenure-track faculty positions. One position is at the Assistant, Associate or Full Professor level with a primary appointment in the Department of Computer Science. Applicants must possess a Ph.D. in computer science, or a Ph.D. in a related field and sufficient expertise in computer science to fit within a CS department. The other position is at the Assistant or Associate Professor level with a primary appointment in the Department of Biological Statistics and Computational Biology. Applicants for this position must possess a Ph.D. in biology, computer science, statistics, or a related field, and a primary interest in understanding biological phenomena through the use of computational and statistical methods.

Cornell is committed to creative advancement of the interdisciplinary field of computational biology, and these positions come with considerable flexibility, including the possibility of joint appointments, novel space arrangements, and multiple graduate field memberships. Successful applicants in both positions will also have the opportunity to interact closely with campus-wide efforts in genome sciences, including the Cornell Center for Comparative and Population Genomics and the Center for Vertebrate Genomics.

For both positions, outstanding applicants in all areas of computational biology will be considered, but research areas of special interest include comparative and population genomics; functional genomics; gene regulation; dynamical behavior at the sub-cellular and cellular levels; networks in biological systems; and applications of machine learning to biological problems.

To ensure full consideration, applications should be received by December 1, 2011, but they will be accepted until the positions are filled. Applicants to both positions should submit a curriculum vitae and a research statement and should arrange to have three reference letters submitted, at http://www.cs.cornell.edu/apply . Cornell University is an affirmative action/ equal opportunity employer and educator.

Adam Siepel <acs4@cornell.edu>

CornellU EvoDevo

Assistant Professor Evolutionary Developmental Biology of Animals Cornell University Cornell University,

located in Ithaca, New York, is an inclusive, dynamic, and innovative Ivy League university and New York's land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university's mission of teaching, research, and outreach.

The Department of Ecology and Evolutionary Biology invites applications for tenure-track appointment as Assistant Professor in evolutionary developmental biology of animals. We are particularly interested in candidates whose research investigates the developmental genetic basis of evolutionary novelty, convergence, or differences in body plans, although candidates with related interests are also encouraged to apply. We will consider applicants who study patterns and mechanisms of evolutionary change within groups of closely related organisms or across broad phylogenetic expanses of taxa. The position bridges evolutionary biology, developmental biology and genetics and the successful candidate must demonstrate research accomplishments at the highest level in these intersecting fields. The successful candidate will be expected to develop a well-funded, innovative research program with a national and international reputation, to participate in undergraduate and graduate teaching in evolutionary biology and evolutionary developmental biology, and to contribute to evolutionary and developmental life sciences across the Cornell campus. Cornell's faculty in the life sciences is highly collaborative and outstanding research facilities are available.

Application Procedure: Candidates should submit a curriculum vitae, statement of research interests, statement of teaching interests and experience, list of publications, and a selection of no more than 5 representative papers. Candidates should also arrange for 3 letters of reference to be uploaded. Apply via website https://academicjobsonline.org/ajo/jobs/1145 . Inquiries can be directed to either of the co-chairs of the search committee: Prof. Richard G. Harrison or Prof. Amy R. McCune at evodevosearch@cornell.edu. Review of applications will begin December 1, 2011, and continue until the position is filled. Salary: Competitive, commensurate with background and experience.

Qualifications: Applicants should have a Ph.D., demonstrated excellence in research in the field of "evo-devo," a strong interest in collaborative research, and a dedication to excellence in teaching of evolutionary biology. Post-doctoral experience is highly desirable. Cornell University is an affirmative action/ equal opportunity employer and educator.

Apply Here: http://www.Click2apply.net/s93pp5q
mmcder2010@hotmail.com

EarlhamCollege TeachingEvolution

Earlham College: Visiting Assistant Professor of Ecology, Evolution and Conservation Biology

* *

Earlham College invites applications for a biologist with teaching and research interests in ecology, evolution, and/or conservation biology. This is a full-time, one-year appointment in the Biology Department as a visiting professor with the potential of a two-year appointment. The position begins in August 2012.

The Department seeks an individual who is first and foremost excited about teaching in lecture, laboratory and research venues to bright and motivated undergraduates in a nationally ranked department at a small liberal arts college.

Teaching responsibilities will include contributing to introductory team-taught courses in ecology and biodiversity, and upper-level courses in the applicant's area of expertise. Applicants who have an expertise in one or more of the following areas are especially attractive: conservation, population and community ecology, evolutionary biology, field research. There are also opportunities for student-faculty collaborative research.

A Ph.D. or equivalent is preferred; teaching or post-doctoral experience is desirable.

For an expanded description about Earlham College and the Biology Department please visit: http://www.earlham.edu/biology To Apply: Arrange for three letters of reference to be emailed (see email address below), and please send, as a single pdf, curriculum vitae, a statement of teaching philosophy, and a statement of research interests to: butleer@earlham.edu. Review of applications will begin on Dec. 1 and continue until the position is filled.

Please direct questions to Dr. Chris Smith (smithch@earlham.edu)

Earlham College continues to build a community that reflects the gender and racial diversity of the society at large, and, therefore, we are particularly interested in inviting and encouraging applications from African Americans, other ethnic minorities, and women. Earlham also is eager to solicit applications from members of the Religious Society of Friends (Quakers). Earlham is an Affirmative Action/Equal Opportunity Employer.

Chris R. Smith Assistant Professor Department of Biology Earlham College 801 National Road West Richmond, IN 47374 USA tel: 765-983-1377

crsmith.ant@gmail.com

Ecuador FieldAssist AvianConservation

Field assistant for studying a cooperative breeding bird in Ecuador

We are looking for a highly motivated field assistant to join us in our study on the cooperative breeding system of the endangered El Oro parakeet (Pyrrhura orcesi). Characteristical for this species is its cooperative behaviour, which has seldomly been observed in parakeets before. Our work focuses on the factors underlying the development of delayed dispersal and cooperative breeding. More details about the project can be found at: www.biologie.uni-freiburg.de/data/bio1/schaefer/nadine.html Fieldwork will take place at Buenaventura reserve (www.fjocotoco.org) near Pinas, southwest Ecuador. Fieldwork includes capturing birds with mist nets and inside artificial nest boxes, taking morphometric measurements and blood samples, banding of birds and field observation of parakeet flocks. The parakeet flocks are distributed throughout the whole reserve and adjacent areas, therefore long and exhausting daily treks across the foothills of the Andes are unavoidable. Fieldwork will be done during rainy season and we will work 5-6 days per week. In addition, batteries (~3kg) for nest cameras have to be changed every two days. The project will cover the costs for flight and accommodation at the reserve. If required, a letter of recommendation can be drawn up. The position is vacant from January to the end of April 2011. Application for a shorter period, preferably from January to the end of February, is possible.

If interested please send an email with a short CV and application letter (why you are interested) to: michael-bauer@gmx.net

Michael Bauer <Michael-Bauer@gmx.net>

EmoryU SoftwareProg GalaxyProject

The Taylor Lab (http://bx.mathcs.emory.edu/joining/-sw/) in the Biology and Math and Computer Science departments at Emory University is looking for ambitious individuals to fill multiple software engineering positions working on the Galaxy Project (http://-/galaxyProject.org/). Galaxy is a software framework that (a) enables researchers to store, analyze, visualize and share genomic data and (b) provides genomic tool developers with the ability to deploy their tools within a complete analysis framework. Thousands of researchers worldwide use Galaxy on a daily basis. Galaxy is an open source project committed to the openness of scientific enterprise and is free for all.

Galaxy has active projects in many areas. Current areas of expertise sought include:

* Distributed computing and systems programming. We are engaged in the development of workflow systems, cloud computing based solutions, and other projects involving high performance and data intensive computing. * Web-based visualization and visual analytics. We are building novel interactive visualizations of next-generation sequence data that leverage cutting edge web technologies. * Informatics and data analysis and integration. We build and use tools to analyze large datasets generated by high-throughput sequencing of DNA to understand genomes and genome function. * Bioinformatics application areas such as re-sequencing, de novo assembly, metagenomics, transcriptome analysis and epigenetics.

However, regardless of area of expertise we seek talented, self-motivated individuals to join our team. Galaxy is developed in an academic research environment, and members of the Galaxy team work closely with experimentalists on projects at the leading edge of data-intensive biological research.

Python is the primary implementation language for the Galaxy framework. Galaxy's primary user interface is web-based, and makes substantial use of javascript, canvas, and other modern web technologies. Many of the analysis components of Galaxy are performance critical, implemented largely in C, C wrapped in Python, or other languages as appropriate.

Note that these are full time positions located in At-

lanta, GA – we cannot take on contractors at this time.

Please contact james.taylor@emory.edu. – http://galaxyproject.org/ http://getgalaxy.org/ http://usegalaxy.org/ http://galaxyproject.org/wiki/ Dave Clements <clements@galaxyproject.org>

FloridaIntlU 3 Bioinformatics

Three Tenure-Track faculty Positions, rank open, and three lecturer positions at FLORIDA INTERNATIONAL UNIVERSITY

Bioinformatics The Department of Biological Sciences at Florida International University (http://casgroup.fiu.edu/Biology/) is seeking applicants for an open-rank tenure-track position in BIOINFORMATICS. The successful candidate will be expected to maintain an externally funded research program, supervise graduate students in our Ph.D. program, as well as teach undergraduate courses including genetics and other courses in their areas of expertise. Areas of prospective research foci may include but are not limited to: genomics, metagenomics, proteomics, computational biology, systems biology, genome-wide association mapping, and phylogenetics. Candidates utilizing theoretical approaches are encouraged to apply. To ensure full consideration, applications should be received by November 21, 2011. Screening of applications will begin on that date and continue until a suitable candidate is selected. Applications will only be accepted electronically as PDF files. Interested applicants should submit a 1) cover letter, 2) curriculum vitae, 3) statement of research interests, teaching goals, and service interests, and 4) arrange to have three or more references sent independently to Eric von Wettberg at eric.vonwettberg@fiu.edu. Interested applicants are also required to submit their applications online via www.fiujobs.org, reference position 35537. FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.

Marine Geneticist The Florida International University (FIU) is seeking applicants for a Marine GENETICIST (rank open, senior applicants are encouraged) for a tenure track position in the Department of Biological Sciences (http://casgroup.fiu.edu/Biology/). He or she will participate in the Marine Science Program (http://casgroup.fiu.edu/marine/), a new and growing interdisciplinary initiative emphasizing research and teaching in coastal marine science. The Marine Science Program is housed in a recently completed building in FIU Biscayne Bay Campus in the city of North Miami, and currently is home to 12 research laboratories, 2 teaching laboratories, wet labs, a mesocosm facility, and running sea water systems. The successful candidate will be expected to maintain an externally funded research program, supervise graduate students in our Ph.D. program, as well as teach undergraduate courses including General Genetics and other courses in their areas of expertise. Areas of prospective research foci may include but are not limited to: genomics/phylogenetics, metagenomics, population genetics, ecological genetics, and environmental microbiology. To ensure full consideration, applications should be received by November 21, 2011. Screening of applications will begin on that date and continue until a suitable candidate is selected. Applications will only be accepted electronically as PDF files. Applications should include a cover letter, curriculum vitae, a summary of research interests and teaching goals. Please submit applications to trexlerj@fiu.edu. In addition, applicants should arrange for three letters of reference to be sent directly to the same e-mail address. Interested applicants are also required to submit their applications online via http://www.fiujobs.org reference position 35538. FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.

Comparative Immunologist The Department of Biological Sciences at Florida International University is seeking a Comparative Immunologist (open rank) to fill a tenure-track position. All candidates must have postdoctoral experience and strong publication and funding records. Senior candidates should have a demonstrated history of leadership and consistent extramural funding in the field of comparative immunology. The department has a broad range of faculty for potential collaborative interactions (http://casgroup.fiu.edu/Biology/-). Teaching expectations include a general undergraduate course in immunobiology and graduate specialty courses. All application materials should be submitted electronically as PDF files to: Dr. Laurie Richardson, Chair, Comparative Immunology Search Committee, Laurie.Richardson@fiu.edu and received by November 21, 2011. Each application should include a cover letter, curriculum vitae, and a summary of professional and teaching interests. In addition, applicants should arrange for three to four letters of reference to be e-mailed directly to the same e-mail address. Interested applicants

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

HongKong MycorrhizaSystematists

we are actually looking for a mycorrhiza systematists/molecular ecologist, who investigates mycorrhizal diversity for restoration ecology. People, who for example publish in journals like New Phytologist are the target group.

Kadoorie Farm & Botanic Garden Corporation

Notice of Vacant Post: Restoration Ecologist (Mycorrhizae & Soil)

JOB SUMMARY Applications are invited for a permanent Restoration Ecologist position at Kadoorie Farm and Botanic Garden (KFBG) in Hong Kong. The general remit of the post is to use the findings of research in ecology and diversity of mycorrhizal fungi and the physical, chemical, biological and nutrient properties of soils to facilitate forest restoration projects. The successful candidate will conduct field work to collect soil samples from a range of environments, produce maps of soil types, monitor and conduct laboratory analysis of soil samples and investigate the diversity of mycorrhiza species using traditional as well as DNA fingerprinting and sequencing methods in Hong Kong, South China and Indochina.

Applicants should have a PhD in the field of soil science or molecular ecology with particular focus on mycorrhizal research. Strong communication skills (written and oral), advanced knowledge of population and statistical genetics, and computational skills (Linux/Windows/MacOsX) are required. Additional knowledge of the regional flora, GIS, analysis of high-throughput sequencing data and computer programming (Perl/Python/R/) would be a distinct advantage.

Interested parties should send a detailed CV, expected salary, and a short essay (describing relevant work experience and reasons for interest in the post) to:

Dr. Gunter Fischer, Head of Flora Conservation Department, Kadoorie Farm & Botanic Garden Corporation Lam Kam Road, Tai Po, N.T., Hong Kong Email: gfischer@kfbg.org

Gunter Fischer <gfischer@kfbg.org>

FordhamU MicrobialEvolution

ECOLOGIST POSITION, FORDHAM UNIVERSITY. Applications are invited for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level in the Department of Biological Sciences. We seek an evolutionary and/or population ecologist working in microbial ecology, and who conducts hypothesis-driven research using molecular methods and/or genomics. The successful applicant will establish a research program at Fordhams biological field station, the Louis Calder Center, and can participate in our Center for Urban Ecology (CUE). There are also opportunities to collaborate with scientists at the New York Botanical Garden, Wildlife Conservation Society, and the American Museum of Natural History. A commitment to undergraduate and graduate teaching and research is required. Assistant Professor candidates must demonstrate the potential to use regional resources to develop a rigorous, externally funded research program. Associate Professor candidates must have a proven record of external, peer-reviewed funding and indicate future directions using regional resources. Applicants should email one PDF application file containing a cover letter, curriculum vitae, contact information for three references, teaching and research statements, and three reprints to jdlewis@fordham.edu. The cover letter should be addressed to Dr. J.D. Lewis, Chair, Department of Biological Sciences, Fordham University, Bronx, NY 10458. Review of applications will begin November 1st, 2011.Fordham University is an independent, Catholic university in the Jesuit tradition that welcomes applications from men and women of all backgrounds. Fordham is an EOE.

Evon R. Hekkala Assistant Professor Dept. of Biological Sciences Larkin Hall- Room 360 441 E Fordham Rd. FordhamUniversity New York, NY 10458 Ehekkala@Fordham.edu

evon hekkala <ehekkala@yahoo.com>

IdahoStateU Pocatello Chair

Our department is searching for a Chair. We have a strong research group in evolutionary biology and bioinformatics and would like to encourage individuals with research programs in these fields to apply.

Department Chair and Professor of Biology

Idaho State University, Pocatello, ID

Department: Biological Sciences

Primary Purpose: Serve as a faculty member and Chair of Biological Sciences.

Minimum Qualifications: Doctoral Degree and credentials to qualify for tenure and appointment at the level of full professor.

Preferred Qualifications: The successful applicant will have a Doctorate in biological sciences or related field, a commitment to undergraduate and graduate education, an excellent record of publication and extramural support, and strong leadership qualities; candidate should have a proven track record in research.

Salary/Pay Information: Commensurate with qualifications and experience. Competitive benefits package.

Term of Employment: 12 Month /Full-time

Location: Pocatello

Special Instructions to Applicants: Please submit a cover letter which includes a statement of leadership philosophy, research and teaching interests, current vita, and a list of 3 references.

Closing Date: Open Until Filled; review of applications will begin October 31, 2011.

Application Process: For full consideration, please apply through the Idaho State University Human Resources

website (www.isujobs.net).

Janet Loxterman <loxtjane@isu.edu>

Ifremer Brest Phytoplankton Biodiversity

Job opportunity:

Resercher on Phytoplankton Biodiversity Ifremer-Centre de Brest Laboratory DYNECO/PELAGOS BP 70 29280 PlouzanÃ© FRANCE

The laboratory DYNECO / Pelagos wishes to extend its research activities on phytoplankton ecology and on the dynamics of toxic species to the field of phytoplankton biodiversity. This new research topic was validated by the Scientific Council of Ifremer and identified as one of the main future project of the Institute. The laboratory is seeking for a researcher able to conduct innovative projects on the theme of phytoplankton biodiversity. Placed under the direct authority of the head of the laboratory DYNECO / Pelagos, he / she conducts research with the following aims: - describe spatial and temporal changes of phytoplankton diversity (from pico-to nano and microphytoplankton) - improve the knowledge of phytoplankton functional diversity - assess the impacts of global change on specific and functional biodiversity of phytoplankton in the Channel and French Atlantic coastal areas, - understand phytoplankton assemblages structuring, especially when harmful algal blooms occur.

The candidate must be able to apply and develop innovative researches and methods to obtain the required knowledge, accounting for Ifremer assignments, such as the observation and monitoring of marine ecosystems status. The research will be carried out within the Pelagos laboratory, in collaboration with other Ifremer teams and in connection with other research or monitoring activities (such as the scientific exploitation of REPHY network data). The candidate will be asked to develop activities within international research networks and coordinate funded research projects at national and / or international level. The position will be based at Ifremer in Brest.

Initial training : â PhD in biological oceanography or similar

Specific knowledge : â Molecular strategies and methods for the study of phytoplankton biodiversity (including toxic species) â Knowledge of classical and molecular taxonomic appreciated â Understanding of sanitary quality issues of sea products â Fluency in English

Career : â Post-Doctoral experience â International experience whished â Experience at sea appreciated

Personal qualities : â Adhesion to Ifremer research priorities, â Open-mindedness, interpersonal skills, taste for team work â Liking for the innovation in research methods and the understanding of biological mechanisms â Ability to establish national and international relations

internet link to profile: http://wwz.ifremer.fr/-institut_eng/Ifremer-careers/Offres-d-emploi-Offres-de-stage/Chercheur-en-biodiversite-du-phytoplancton-H-F internet link for application: http://-ifremer.profilsearch.com/fo_form_cand.php?idifremer=11%20-%20130 e-mail for application: recrute@ifremer.fr

Raffaele SIANO <Raffaele.Siano@ifremer.fr>

KansasU Genomics

Three tenure-track faculty positions are available at the University of Kansas. Microbial Ecology Evolutionary/Ecological Genomics Amphibian/Reptile Biodiversity Microbial Ecologist: We invite applications for a joint tenure-track position at the Assistant Professor (EEB) /Assistant Scientist (KBS) level with research expertise in Microbial Ecology to begin as early as August 18, 2012. We seek an ecologist investigating interactions between microbes and the abiotic and biotic environment in aquatic or terrestrial ecosystems utilizing cutting-edge techniques. Areas of specialization may include but are not limited to: population dynamics; community structure and interactions (e.g. food-web dynamics, symbioses, etc.); ecosystem processes; microbial diversity and function; evolution. The successful candidate will be expected to: teach courses and seminars in ecology and in areas of her or his specialization; develop and maintain an externally funded program of research; and have a commitment to service within the department, the Kansas Biological Survey, College, University, and the profession. Initial review of applications begins October 17, 2011. Position Number 0006620 Evolutionary/Ecological Genomics: We invite applicants for an Assistant Professor (Tenure track) position focusing on ecological or evolutionary genomics to beginas early as August 18, 2012. Those performing interdisciplinary research at the interface of different fields of Biology are strongly encouraged to apply. Responsibilities include teaching two courses per academic year;directing a productive research program, as evidenced by scholarly publications, communication of current research at appropriate professional meetings, and acquiring of external funding; and service to the department, College, University, and to the profession. Initial review of applications begins October 27, 2011. Position number 00004339. Amphibian/Reptile Biodiversity: We invite applications for a tenure-track joint position as Assistant Professor (50%) and Assistant Curator (50%) that focuses on the Biodiversity and Evolutionary Biology of Amphibians and Reptiles. Appointment is expected to begin as early as August 20, 2012. The successful candidate will: (a) utilize systematic techniques to address research questions in the biodiversity and evolutionary biology of amphibians and/or reptiles; (b) teach courses in systematic herpetology, general biology, and additional areas of expertise (typically one 3 hr course and one graduate seminar/yr); and (c) assist in the stewardship of the Biodiversity Institute's extensive herpetological collections. Initial review of applications begins October 17, 2011. Position Number 00002289 Additional position information and application portal can be found at: https:/-/jobs.ku.edu. Search for respective job using the job position numbers. In addition, three letters of recommendation should be submitted as PDF attachments to an e-mail sent to the attention of: Dorothy Johanning: jdorothy@ku.edu.

Justin Blumenstiel Assistant Professor

Department of Ecology and Evolutionary Biology University of Kansas 1200 Sunnyside Avenue Haworth Room 7026 Lawrence, KS 66045

jblumens@ku.edu 785-864-3915 http://www2.ku.edu/-~eeb/faculty/blumenstiel.shtml jblumens@ku.edu

KentStateU PlantConservationBiol

Herrick Endowed Chair in Plant Conservation Biology Department of Biological Sciences Kent State University

Kent State University seeks an internationally recognized biologist to fill the Herrick Endowed Chair in Plant Conservation Biology in the Department of Biological Sciences. The successful candidate will join a growing department with a rich academic history in this field and a mission to develop our expertise into the modern era of conservation biology. We view the successful candidate as providing leadership for growth as well as an established and distinguished record of research scholarship.

We especially seek applications from individuals who use the modern tools of biology to address questions in this field. Preference will be given to an individual whose interest and expertise are in, or associated with, plant conservation from a broad perspective. This includes work in related areas that impact plant con-

servation, such as plant evolution, field botany, plant ecology, plant genetics, and the cellular and molecular study of plants.

Candidates for the Herrick Endowed Chair should be mid-career scientists with an exceptional research and publication record, and with recognized potential for continued prominence in their field, evidenced by a substantive and sustained track record of extramural funding and international recognition for contributions in their area of expertise. The Herrick Endowment supports a highly competitive salary and startup package.

Kent State University provides an outstanding academic environment for the study of plant conservation biology. For information about the Department of Biological Sciences and the Herrick Endowed Chair, please visit us at www.kent.edu/biology/- and http://www.kent.edu/biology/careers/herrick/-chair.cfm . Applications and inquiries should be submitted by email at conservationchair@kent.edu or online http://www.kent.edu/biology/careers/herrick/-apply.cfm. Interested candidates should send a curriculum vita, summary of qualifications and interest, and contact information for at least three references. Applicants selected for further consideration will be asked for permission to contact references.

We are actively soliciting nominations, which can be provided by email at at conservationchair@kent.edu or online at http://www.kent.edu/biology/careers/-herrick/nominate.cfm . Further inquiries can be directed to: Chair, Herrick Endowed Chair Search Committee Department of Biological Sciences Kent State University Kent, Ohio 44242 Tel : 330-672-3614

Kent State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from candidates who would enhance the diversity of the University's faculty.

"ROCHA, OSCAR" <orocha@kent.edu>

Leiden Netherlands MuseumBioinformatician

Dear all (Please forward to whom would be interested),

NCB Naturalis (http://science.naturalis.nl/) has a position available for a:

Bioinformatician

full-time (36 hours/week)

The focus of NCB Naturalis is biodiversity. NCB Naturalis curates a collection of 37 million specimens; this is one of the world's largest natural history collections. We present the history of our planet and the diversity of life on Earth with permanent and temporary exhibitions, educational programmes and websites. Our research and education are maintained at a high academic level.

NCB Naturalis is appealing to a wide audience, attracting over 250,000 visitors and 5 million hits to its website annually. Co-operation with international institutions, including three renowned Dutch universities, and the outstanding collections, are all factors that attract hundreds of visiting scientists every year.

Expectations and ambitions for the next few years are high. We will develop new exhibitions and plan to integrate several collections. NCB Naturalis will invest significantly in infrastructure for collections and research, including new buildings. In short, we are a developing, world-class institution, and present this exciting opportunity for you to help us achieve our ambitions and meet our challenges.

Position

The analysis of large datasets plays a major role in biodiversity research. Such datasets of species traits, total genome and other DNA sequence data, combinations of geo-referenced observations and collection data are essential in the NCB Naturalis research programmes. The bioinformatician will cooperate with our scientists and students on assemblage, storage, linkage and analysis of these datasets. He or she will also contribute to the planning and development of a new information architecture for the institute.

Profile

Â a specialist in e-taxonomy and/or analysis of DNA/RNA sequencing data,

Â an internationally recognized specialist on bioinformatics or biodiversity informatics, with an outstanding record of scientific papers in high-impact journals,

Â a team-player,

Â at least three years of experience in a similar position after PhD,

Â prepared to develop and contribute to courses in the fields of bioinformatics or biodiversity informatics for university students, and willing to supervise BSc and MSc students.

We offer

A fulltime contract (36 hours per week) for four years. A competitive salary of Â 2,988 - Â 4,014 gross per

month (or up to Â 4,574 after evaluation of this position) depending on experience and qualifications. All our employees are incorporated into a pension fund.

Procedure

Further information on this position can be obtained from Dr. Jan van Tol, associate director for research and education, telephone +31 71 5687 606. Please send your application with motivation and curriculum vitae, including list of publications, before 20 October 2011, to NCB Naturalis, HR Department, P.O. Box 9517, 2300 RA Leiden, The Netherlands, or by e-mail to sollicitaties@ncbnaturalis.nl.

Nico Davin <nicolasdavin@hotmail.com>

London NHM Bioinformatician

Post: Bioinformatician/ Computational Biologist

Salary: circa from £38,812 per annum plus benefits

Contract: Permanent

Closing date: 24 October 2011

The Natural History Museum is one of the worlds leading museums, internationally recognised for its dual role as a centre of excellence in scientific research and as a leader in the presentation of natural history through exhibitions, public programmes, publications and the web.

The advent of Next Generation Sequencing (NGS) has already had a significant impact on NHM research. Researchers from all life science groups are engaged in metagenomics, genomics and high-throughput amplicon-based sequencing projects to address questions in systemactics, evolution and ecology.

We are now looking to appoint an independent researcher engaged with current and future NGS technology to lead an independent programme of NGS-oriented research.

Youll be able to demonstrate a strong track record in disciplines such as comparative genomics, metagenomcis and gene regulation underpinned by NGS technologies.

With a PhD or equivalent in a relevant scientific discipline and a vision for the future of NGS technologies, youll have proven leadership with the ability to quickly build a rapport and promote collaboration with teams and key stakeholders.

For a full job description and to apply online please visit the Natural History Museum website: www.nhm.ac.uk/jobs mark wilkinson <mw@bmnh.org>

LouisianaStateU MammalogistCurator

Anticipated/Tenure-track

ASSISTANT PROFESSOR AND CURATOR

(Mammalogist)

Department of Biological Sciences

The Department of Biological Sciences and Museum of Natural Science at Louisiana State University invite applications for an anticipated tenure-track Assistant Professor and Curator position. Responsibilities: Develops and maintains a vigorous extramurally funded research program; contributes to undergraduate and graduate teaching; collects mammal specimens; curates the Museum's mammal collection; participates in extracurricular activities in Biological Sciences and the Museum. Required Qualifications: Ph.D. or equivalent degree (A.B.D. candidates must have Ph.D. by May 2012); a successful record of independent research in mammal biology; and curatorial experience in building, managing, and using a mammal collection. Additional Qualifications Desired: Postdoctoral experience. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is January 6, 2012 or until a candidate is selected. Anticipated start date is August 2012. We encourage applications from women and minorities. Apply online and view a more detailed ad at: www.lsusystemcareers.lsu.edu Position #006434.

LSU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Quick link at ad URL: https://-lsusystemcareers.lsu.edu/applicants/-Central?quickFind=53557

Jenn

Jennifer A. Randazzo

Coordinator, Staffing and Employment Center Office of Human Resource Management 103 Thomas Boyd Hall Louisiana State University Phone: (225) 578-8830 Fax: (225) 578-9499

jrandazzo@lsu.edu

www.lsusystemcareers.lsu.edu

Jennifer A Randazzo <jrandazzo@lsu.edu>

MiddleTennesseeStateU Genomics

Three Biology Faculty Positions, Cell Biologist (Position #103040), Genomics Biologist (Position # 103120), Microbiologist (Position # 103450). Middle Tennessee State University, the largest unit in the Tennessee Board of Regents system with over 26,000 students, invites applications for three tenure-track positions at the Assistant or Associate Professor level beginning August 1, 2012. The department offers the B.S., M.S. degrees, participates in the interdisciplinary molecular biosciences Ph.D. program, and is committed to quality classroom teaching, research and professional service. A Ph.D. and post-doctoral experience are required. Faculty are expected to direct a vigorous, externally funded research program and participate in the molecular biosciences Ph.D. program. Candidates who utilize molecular approaches or biomics (genomics, proteomics, metabolomics, etc.) are encouraged to apply. Application materials must be filed on-line at https://-mtsujobs.mtsu.edu. Complete application materials for preliminary review to include: letter of interest indicating how your area of expertise would strengthen degree programs, employment application, curriculum vita, statement of research interests, statement of teaching philosophy, and copies of transcripts. Review of applications begins October 31, 2011. Information on Middle Tennessee State University can be found at http:/-/www.mtsu.edu . Cell Biologist - Position #103040. Research interests must address fundamental problems in cell biology. Individuals whose research bridges cell biology with other disciplines are also encouraged to apply. The successful candidate is expected to teach an undergraduate/graduate cell biology class and direct student research. Dr. Rebecca Seipelt, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. Additional Information: E-mail: rseipelt@mtsu.edu.

Genomics Biologist - Position #103120. Research interests must address fundamental problems in the areas of population, functional, or evolutionary genomics using laboratory and computational approaches for the analysis of genomes or gene expression of non-model organisms. The successful candidate is expected to teach undergraduate/graduate courses in organismal biology and/or genomics and direct student research. Dr. Bruce Cahoon, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. Additional Information: E-mail: acahoon@mtsu.edu.

Microbiologist - Position #103450. Research interests must address fundamental problems in microbial pathogenesis or ecology. The successful candidate is expected to teach undergraduate/graduate courses in microbiology and direct student research. Dr. Jeff Leblond, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. Additional Information: E-mail: jleblond@mtsu.edu.

Sarah Bergemann Middle Tennessee State University Department of Biology Davis Science 128 PO Box 60 Murfreesboro TN 37132 sbergema@mtsu.edu PH: 615-494-7634 Office: 335 Jones Hall

sbergema@mtsu.edu

NewMexicoStateU Outreach Educator

Please post the position below as NMSU-HHMI.ScienceEducation.Outreach thank you

Title Mgr, Lab Instruction

Position Classification Code R3015; Requisition # 0600110

POSITION SUMMARY: The major purpose of this position is to travel though out the state of New Mexico with the portable molecular biology laboratory to introduce high school students to basic molecular biology techniques.

KEY DUTIES AND RESPONSIBILITIES: * Develop and implement outreach activities targeted to NM high school science students and teachers. * To interface with high school science teachers and their students as part of the outreach efforts of the HHMI-NMSU Program and assist with programmatic assessment and dissemination. * Assist with summer outreach activities directed toward providing high school science teachers with an increased knowledge of molecular biology skills and techniques. * Maintain strong working relationships with program participants including high school science teachers. * Supervise, direct, and evaluate work of program participants. * Statewide travel is required. * Performs related duties as required.

QUALIFICATIONS:

Knowledge of: Genomics and bioinformatics; genetic and molecular genetics techniques, including PCR, DNA isolation, restriction enzyme digests, gel electrophoresis and DNA sequencing.

Skills in: Short-and long-range planning; problem analysis and resolution; oral and written communication; creation and management of spreadsheets; public contact and relations especially with high school science teachers and their students; teaching experience and expertise at the high school or higher education level; molecular biology laboratory techniques; familiarity with genomics.

Ability to: Qualify for NMSU drivers license; Direct, evaluate, train, and supervise the work of program participants; develop and maintain effective working relationships with high school teachers and NMSU faculty and staff; maintain accurate and orderly records; use independent judgment and initiative; organize and direct activities; analyze and evaluate information; travel extensively.

REQUIRED EDUCATION AND EXPERIENCE: * Masters degree in biology, biochemistry, molecular biology, microbiology or related field. * Three (3) years related experience.

Required Applicant Documents Supervisor and Departmental Contact: Dr. Ralph Preszler, rpreszle@nmsu.edu Associate Professor of Biology and Program Director of NMSU-HHMI, Department of Biology, New Mexico State University.

Letter of Interest; Resume of CV; Three References with Contact Information Applicants will need to fill out an electronic application and attach required documents at https://jobs.nmsu.edu Review of applications will begin on November 15, 2011 and applications received after this date may be considered. Salary Range $41,000 to $52,000. Position is contingent on external funding.

New Mexico State University is an equal employment opportunity/affirmative action employer. Offer of employment is contingent upon verification of individuals eligibility for employment in the United States and upon the availability of external funding.

Christin Slaughter NMSU HHMI Outreach Coordinator Access to Science Center Department of Biology MSC3AF New Mexico State University PO Box 30001 Las Cruces, NM 88003-8001 575-646-2175 hhmi_asc@nmsu.edu

Christin Slayghter Biology <hhmi_asc@nmsu.edu>

StonyBrookU 2 HumanEvolution

Program for Human Evolutionary Biology Two Positions

As initial appointments in an interdepartmental initiative in Human Evolutionary Biology, Stony Brook University invites applications for two tenure-track positions, one each in the Departments of Anthropology and Ecology and Evolution, at the level of Assistant Professor, beginning September 2012. Successful candidates for these positions 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.

The Department of Anthropology seeks an individual specializing in an evolutionary approach to the study of human behavior in traditional (living or historic) or westernized human populations. Research areas may include optimal foraging, mating strategies, sexual conflict, life history theory, cooperation and aggression, disease and immunology, or other areas in behavioral ecology or evolutionary psychology. The successful candidate will be responsible for developing and teaching an undergraduate course on the evolutionary basis of behavior.

The Department of Ecology and Evolution seeks an individual specializing in human population genetics or evolutionary genomics of primates, including humans. Basic descriptive, statistical modeling, or bioinformatic approaches will be considered. The successful candidate will be responsible for developing and teaching an undergraduate course on human population genetics or primate genomics.

Both candidates will be expected to teach additional undergraduate or graduate courses in their area of expertise, secure external research funding and play an active role in our highly ranked graduate programs. Stony Brook is located on the north shore of eastern Long Island, NY, amid extensive farmlands and vineyards, miles of beaches, and easy access to the cultural resources of New York City. This is a great place to establish a career and a nice place to be. Applicants must have a Ph.D. by starting date and a strong publication record. Applicants should apply by email and application should include a letter of application (including research and teaching interests), curriculum vitae, up to three examples of pub-

lications, and request that three letters of recommendation be sent to: the Human Evolutionary Biology Search Committee, at either the Department of Anthropology or Ecology and Evolution (depending upon position applied for), Stony Brook University, Stony Brook, NY 11794. For full consideration applications should be submitted before November 1, 2011. Applications for the Anthropology position should be emailed to Megan.Alberti@stonybrook.edu and for the Ecology and Evolution position they should be submitted online at http://life.bio.sunysb.edu/ee/recruitment.htm. Questions about the search should be directed to Diane Doran-Sheehy (ddoran@notes.cc.sunysb.edu) or Walt Eanes (weanes@notes.cc.sunysb.edu). Stony Brook University is an Equal Opportunity/Affirmative Action Employer.

malberti@notes.cc.sunysb.edu

TromsuUMuseum Biosystematics

Researcher in Biosystematics, Tromsø University Museum

Application deadline: 10.11.11 The following reference number must be quoted in your application: 2011/4579

The University of Tromsø has vacant a researcher position in Biosystematics. The period of appointment is until 31 December 2014.

The position is attached to Tromsø University Museum, Department of Natural Sciences

For further information, please contact project leader Inger Greve Alsos, e-mail: inger.g.alsos@uit.no or head of Department of Natural Sciences, Arne C. Nilssen, e-mail: arnec.nilssen@uit.no, tel + 47 77 64 50 00.

The Department of Natural Sciences presently employs 25 staff members, including 10 permanent scientific positions and 5 PhD students (http://uit.no). The department has large scientific collections, documenting more than 130 years of research in North Norway and other northern regions. The department includes a research group in taxonomy and biodiversity. The group focuses on diversity, phylogeography, and taxonomy of northern organism using molecular as well as traditional methods.

The position is associated with the Norwegian-Swedish Research School in biosystematics, ForBio (cf. http://-www.nhm.uio.no/english/research/forbio/). ForBio is a teaching and research initiative coordinated by the Natural History Museum (University of Oslo), Bergen Museum (University of Bergen), Tromsø University Museum (University of Tromsø) and the Museum of Natural History and Archaeology (Norwegian University of Science and Technology). ForBio is funded by the Norwegian Taxonomy Initiative and the Research Council of Norway. ForBio is part of the Ministry of Education and Research's commitment to Norwegian university museums and the Ministry of Environment's commitment to increased knowledge of the Norwegian biodiversity.

The position involves 50 % research and 50 % teaching and administration at the Research School. The successful candidate will work strategically and practically with the development of ForBio, and teach on theoretical and/or field courses offered through this research school. The development of the Research School will take place in cooperation with representatives of the other Norwegian university museums, and it is an advantage that the successful candidate has experience in developing and/or management of research and development projects.

For full advertise, see http://www.jobbnorge.no/-job.aspx?jobid=78253 Sincerely yours, Inger Greve Alsos

Assoc. Prof. Inger Greve Alsos Tromsø University Museum NO-9037 Tromsø Norway

Telephone: +47 77 62 07 96 Telefax: +47 77 64 51 05 Email: inger.g.alsos@uit.no http://-/www.svalbardflora.net/ Alsos Inger Greve <inger.g.alsos@uit.no>

UAlberta HostParasiteInteractions

Tier II Canada Research Chair in Host-Parasite Interactions of Arthropods (Assistant/Associate Professor)

UNIVERSITY OF ALBERTA, DEPARTMENT OF BIOLOGICAL SCIENCES V We invite applications for a tenure-track position at the Assistant or Associate Professor level in entomology and parasitology. We are interested in applications from excellent candidates who study parasitological aspects of arthropod biology, including arthropods as hosts or as vectors. In particular, we are seeking an individual who is interested in developing a research program on mechanisms that control host-parasite associations. The candidate

must hold a PhD and have a proven record of leading-edge entomology and/or parasitology research, as well as demonstrated potential for excellence in teaching.

The Department of Biological Sciences (www.biology.ualberta.ca) is one of the largest in North America, with 70 faculty members and 280 graduate students. This concentration of biologists offers a collegial environment for collaboration among ecologists, mathematical biologists, organismal biologists, molecular biologists, physiologists, and evolutionary biologists. Exceptional infrastructure includes field stations in Alberta and the Pacific Coast, microbial and plant growth facilities, museums including entomological and parasitological collections, and access to service units in chemical instrumentation, molecular biology, plant/soil/water analysis, and microscopy. Members of Biological Sciences benefit from interdisciplinary connections with members of many other departments in the Faculty of Science, Faculty of Medicine and Dentistry, Faculty of Agriculture, Life, and Environmental Sciences, and the School of Public Health at the University of Alberta. The successful candidate will be nominated as a Canada Research Chair at the Tier II level. (www.chairs-chaires.gc.ca).

Candidates should submit curriculum vitae, a one-page summary of research plans, a one-page statement of teaching interests, and reprints of their three most significant publications preferably electronically to recruitment1@biology.ualberta.ca or by mail. Applicants must also arrange for three letters of reference to be sent to the attention of the Chair to recruitment1@biology.ualberta.ca.

Closing Date: December 15, 2011. The effective date of employment will be July 1, 2012.

Dr. Michael Caldwell, Chair Department of Biological Sciences CW405 Biological Sciences Bldg University of Alberta Edmonton, AB, Canada T6G 2E9 recruitment1@biology.ualberta.ca

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal peoples.

Linda Christensen <linda.christensen@ualberta.ca>

UBern ScientificCoordinator CausesOfCooperation

Scientific Coordinator for Graduate Research School.

The graduate research school (ProDoc) on "Proximate and Ultimate Causes of Cooperation", funded by the Swiss National Science Foundation and hosted by the University Bern, Switzerland, is seeking to fill the position of a Scientific Coordinator. The expected starting date for this 50-75% position is 1. April 2012, and the position is funded for the duration of the ProDoc (3 years; possibly 1-2 year longer if a prolongation the ProDoc will be granted). Salary level will be set depending on experience of the applicant.

The successful candidate will have a MSc or PhD degree in one of the biological sciences, a keen interest in the evolution of cooperation, and excellent communicative and administrative skills.

This graduate research school is a builds on a cooperative program involving 9 research groups from 5 Swiss Universities:

M. Griesser, University Bern (PI); R. Bshary, University Neuchâtel; M. Chapuisat, University Lausanne; L. Lehmann, University Lausanne; M. Kölliker, University Basel; M. Manser, University Zürich; B. Taborsky, University Bern; M. Taborsky, University Bern; C. van Schaik, University Zürich.

In addition, we have a number of international collaborators involved in research projects of the ProDoc.

The research covered by the participating groups uses a combination of empirical and theoretical approaches, using diverse study systems und techniques. The program will contribute to the training and research of about 30 PhD students from the involved research groups.

Position Description: The successful applicant will organise and coordinate the common activities of the research school (seminars, workshops, courses), organise visits by invited scientists and actively participate in research activities.

Requirements: 1) Excellent coordinating and organisational abilities 2) Proficient communicator 3) Ability to communicate fluently in English, German (and/or French) 4) MSc or PhD in biology, with a strong interest in the theme of cooperation 5) Ability to work

independently 6) Sociable personality 7) Basic knowledge of creating and maintaining web pages would be helpful

Deadline for application is 1 December 2011, but we will accept applications until the position is filled.

Applications - including a CV, a letter of motivation (1 page) and the names of two referees (preferably as a single PDF)- should be send to: michael.griesser@iee.unibe.ch

Michael Griesser Institute for Ecology and Evolution University Bern 3012 Bern Switzerland http://www.iee.unibe.ch/content/staff/griesser/-index_eng.html

michael.griesser@iee.unibe.ch

UBritishColumbia MarineEukaryoticEcology

Canada Research Chair in Marine Eukaryotic Microbial Ecology Assistant Professor (tenure-track) Departments of Botany and Zoology University of British Columbia

The Departments of Botany and Zoology at the University of British Columbia invite applications for a Tier 2 Canada Research Chair (CRC) in Marine Eukaryotic Microbial Ecology. This is a tenure track position, with initial appointment to be made at the Assistant Professor level, beginning no earlier than July 1, 2012. We seek an outstanding applicant whose research program examines the ecological functions of marine microbial eukaryotes (e.g., protists, protozoa, algae) in the context of their natural environment. The program should address fundamental ecological questions and include a strong field component.

Applicants must have a PhD and preferably postdoctoral research experience. The successful applicant will be a member of the UBC Centre for Microbial Diversity and Evolution (www.cmde.science.ubc.ca) and will also be considered for appointment as a Scholar in the Canadian Institute for Advanced Research program in Integrated Microbial Biodiversity (www.cifar.ca/-integrated- microbial-biodiversity).

Responsibilities of the position include establishing and conducting an internationally competitive and externally funded research program, teaching at the undergraduate and graduate levels, supervising graduate students, and participating on service committees for the departments, university, and academic/scientific community.

Applicants should send a cover letter, curriculum vitae, statement of research, statement of teaching accomplishments and/or interests, and up to four publications to Dr. Brian Leander at ecologysearch@zoology.ubc.ca. Letters of support from three referees should be sent to ecologyreferences@zoology.ubc.ca. Applications should be submitted on or before November 27, 2011.

Canada Research Chairs are open to individuals of any nationality. The position is subject to review and final approval by the CRC Secretariat. More information about the CRC program can be found at www.chairs.gc.ca. UBC hires on the basis of merit and is committed to employment equity. UBC is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, persons of any sexual orientation or gender identity, and others who may contribute to the further diversification of ideas.

bleander@mail.ubc.ca

UCalifornia LosAngeles EvolutionaryBiol

Passing this on for a friend - field is open to all of Life Sciences, including EEB. Sounds like an intriguing opportunity.

R. Deborah Overath, Ph.D. Assistant Professor of Biology Local Program Director Hispanic Leaders in Agriculture and the Environment Department of Life Sciences (ST 312) 6300 Ocean Drive, Unit 5800 Texas A&M - Corpus Christi Corpus Christi, TX 78412

Phone: (361) 825-2467 Cell: (361) 876-4542 Fax: (361) 825-2742

Life Sciences Open Rank Faculty Search University of California Los Angeles

The Division of Life Sciences (www.lifesciences.ucla.edu) in the UCLA College of Letters and Sciences announces a special initiative to recruit excellent research scientists with a history and commitment to the mentorship of students from underrepresented and underserved populations. We seek individuals who will lead and facilitate Life

Science programs focused on providing research and professional development opportunities for our diverse student body. Candidates should have outstanding records of scholarly publications, research support, and teaching. Successful candidates will have the same opportunities and expectations for a successful research program as other UCLA faculty, but with teaching loads and service adjusted for participation in this special initiative. These positions will have an Academic Senate appointment in one of five Life Science departments (Ecology and Evolutionary Biology; Microbiology, Immunology, & Molecular Genetics; Molecular, Cell, and Developmental Biology; Integrative Biology and Physiology; and Psychology) at a professorial rank commensurate with current academic standing and achievement. UCLA offers competitive salaries, research set-up funds, and recruitment allowances.

Nominations and questions should be sent to: Dr. Paul Barber (paulbarber@ucla.edu) or Dr. David O. Sears (sears@psych.ucla.edu). Application packages should contain 1) a cover letter that specifically details his or her philosophy and record of mentoring of underrepresented and underserved students, 2) curriculum vitae and 3) a statement of research and teaching interests and 4) the names of three references. Submit these materials as attachments to diversity@psych.ucla.edu. Review of the applications will begin on November 15, 2011, and will continue until the positions are filled (Job #: 0875-1112-03).

UCLA is ranked the 2nd best public university in the U.S. by US News & World Report and is California's largest university with an enrollment of nearly 38,000 undergraduate and graduate students. The UCLA College of Letters and Science and the university's 11 professional schools feature renowned faculty and offer more than 323 degree programs and majors. The Biomedical, Behavioral and Life Sciences areas at UCLA have more than 300 faculty members, includes many top ten ranked departments, and is consistently in the top ten in NIH funding. The UCLA College has a tradition of outstanding teaching and mentorship of undergraduates, which the Division of Life Sciences hopes to enhance through this special initiative. As a campus with a diverse student body, we encourage applications from women, minorities, and individuals with a history of mentoring underrepresented minorities in the sciences. UCLA is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of faculty and staff diversity.

Deborah.Overath@tamucc.edu

UCalifornia LosAngeles PlantEvolution

University of California, Los Angeles Professor and Director of the Mildred E. Mathias Botanical Garden

The University of California, Los Angeles (UCLA) Department of Ecology and Evolutionary Biology seeks to fill an open-rank (tenure track or tenured) faculty position in Plant Sciences. We are interested in all subfields within organismal plant biology but especially in candidates with strong interests in cross-disciplinary approaches to plant ecology, plant evolutionary biology, conservation science, and biogeography. The successful candidate is expected to establish an internationally recognized and externally funded research program and will assume faculty directorship of the Mildred E. Mathias Botanical Garden, a seven-acre garden on the UCLA campus. We encourage applicants with experience relevant to botanical garden administration and development but will consider applicants with other leadership experience or potential. As a campus with a diverse student body, individuals with a history of mentoring under-represented minorities in the sciences are encouraged to discuss their activities in their cover letter. Applicants should submit application materials online to www.eeb.ucla.edu/botgard including a cover letter, curriculum vitae, statements of research, teaching and interdisciplinary interests, and the names and contact information of four references by December 1, 2011. Please use job number 0830-1112-01in all correspondence.

Additional information about the Botanical Garden and the Department may be found at http://www.botgard.ucla.edu/ and http://www.eeb.ucla.edu/, respectively. Inquiries regarding the position should be directed to Search Chair, Professor Philip Rundel <rundel@ucla.edu>. Women and minority applicants are encouraged to apply. UCLA is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of faculty and staff diversity.

Phillip Spinks <pqspinks@ucdavis.edu>

UCincinnati LabTech HumanVariation

The Molecular Computational and Human-variation Analysis (MoCHA) Laboratory seeks to hire a junior research associate with experience in molecular biology and/or genetics. Duties include maintaining DNA sample stocks and dilutions, preparation of standard laboratory solutions, DNA extraction, PCR, gel electrophoresis, sample preparation for DNA sequencing, the cleaning and maintenance of laboratory equipment and supplies, maintenance of chemical logs, coordinating the ordering and receiving of laboratory supplies and DNA samples, basic data analyses, and the supervision/training of undergraduate and graduate students working in the lab. The minimum requirements are 1-2 years experience working in a molecular genetics laboratory, however, the ideal candidate will have a B.S. in biology or a related field. Individual should be familiar with basic methods of DNA extraction, amplification, and sequencing, and will have excellent organizational skills. Basic knowledge of unix, perl or R is a plus, but is not required. Review of applications will begin October 12, 2011 and will continue until position is filled. Three letters of recommendations will be requested from the top three applicants.

The University of Cincinnati is an equal opportunity/affirmative action employer. Women, people of color, people with disability and veterans are encouraged to apply. Interested candidates can complete an online application at www.jobsatuc.com and reference the job posting number 211UC1848.

Heather L. Norton Assistant Professor Department of Anthropology 474 Braunstein Hall PO Box 210380 University of Cincinnati Cincinnati, OH 45221-0380 Office: 513-556-3594 heather.norton@uc.edu

"Norton, Heather (nortonhr)" <nortonhr@UCMAIL.UC.EDU>

UColoradoBoulder CuratorBotany

Curator of Botany and Assistant Professor in Ecology and Evolutionary Biology

The University of Colorado Museum of Natural History and Department of Ecology and Evolutionary Biology (EBIO), University of Colorado Boulder, invite applications for a joint, tenure-track appointment as Curator of Botany and Assistant Professor. This position will be the first ofseveral positions in phylogenetic biology as part of a broad initiative to enlarge and strengthen comparative and evolutionary biology at the University of Colorado. Primary responsibilities will be to develop an active research program on any group of plants using phylogenetic and systematic approaches, to curate and develop the Museum's botany collections, and to teach in the Museum and Field Studies program and EBIO. The successful candidate will be expected to take a leadership position in advancing the role of the Herbarium. The Herbarium houses a diverse collection of approximately a half million specimens of vascular plants, bryophytes, and lichens and has strong holdings from the southern Rocky Mountain region. This regional strength is enhanced by collections from western North America, the American Arctic, the Altai and the Caucasus Mountains of Central Asia, the European alpine, and the Sierra Madre Occidental of Mexico. Additional information about EBIO and the CU Museum and Herbarium can be found on the web at: http://cumuseum.colorado.edu andhttp://ebio.colorado.edu. Applicants must have a doctoral degree; curatorial experience is important. Job applications must be submitted through the Jobs@CU website, Posting # 814981 (http://www.jobsatcu.com/), beginning October 1. The application package should include curriculum vitae, 3 representative publications, statements of research, teaching, and curatorial experience and vision, along with names and addresses of four references. Review of applications begins December 1, 2011. Contact: Deane.Bowers@colorado.edu The University of Colorado is committed to diversity and equality in education and employment.

Regards, Rob Guralnick Curator of Zoology and Assoc. Professor CU Museum of Nat. Hist. and Dept. of Ecol. and Evol. Biol. University of Colorado Boulder Boulder CO 80309-0265 http://sites.google.com/site/robgur robgur@gmail.com

UEdinburgh ResTech SexualSelection

Dear EvolDir,

Based in the Institute of Evolutionary Biology, University of Edinburgh, UK, a research technician is sought to work on a project studying the genetics of mate choice and sexual selection in sticklebacks (Gasterosteus aculeatus). The successful candidate will be required to organise, manage and maintain the laboratory population of fish (sticklebacks) and assist with experiments and data collection including genotyping under the supervision of Dr Craig Walling (http://wildevolution.biology.ed.ac.uk/-lkruuk/CraigWalling.html). Ideally candidates should have a BSc (or equivalent) in biology or related subject and a strong interest in evolutionary biology and/or animal behaviour. Good interpersonal/time management/organisational skills are essential. Previous experience in fish handling and molecular techniques e.g. PCR, primer design and sequencing would be advantageous.

The university of Edinburgh reference for this job is 3015006 and the salary scale is £20,409 - £23,661. The closing date for applications is 18-Nov-2011. For more information and to apply for this position please visit the University of Edinburgh's job page (http://www.jobs.ed.ac.uk/vacancies/-index.cfm?fuseaction=vacancies.detail&vacancy_ref=-3015006). Informal inquiries should be addressed to craig.walling@ed.ac.uk.

Craig A Walling Institute of Evolutionary Biology School of Biological Sciences University of Edinburgh Edinburgh, EH9 3JT, UK

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Craig Walling <craig.walling@ed.ac.uk>

UGeorgia EvolutionaryGenetics

The Department of Genetics at the University of Georgia invites applications for a tenure-track faculty position in any area of prokaryotic or eukaryotic genetics at the Assistant Professor level. We are interested in strengthening and complementing our existing broad program in Genetics. Applicants researching topics in molecular genetics, genetics of model organisms, or epigenetics are especially welcome. The successful candidate will hold a Ph.D. or equivalent in a relevant field, have postdoctoral experience, and will be expected to maintain a rigorous, externally-funded research program and to contribute to undergraduate and graduate teaching. For information about the department, see http://www.genetics.uga.edu . Applications should be sent by email as a single PDF file that includes a cover letter, CV, and brief statements of research and teaching interests to: "genetics@uga.edu". Three letters of recommendation should be emailed separately as PDFs to genetics@uga.edu, or (less preferred) sent in hard copy to the Genetics Search Committee, Department of Genetics, Davison Life Sciences Building, University of Georgia, Athens, GA 30602-7223. Review of applications will begin on November 7, 2011 and continue until the position is filled.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. The University is an EEO/AA institution.

Daniel Promislow <promislow@uga.edu>

UHawaii ConservationBotany

Assistant Professor, University of Hawai'i Manoa, College of Natural Sciences, permanent, tenure track, 9-month, full-time, general funds, pending authorization to fill, to begin August 1, 2012. Position #85019,

The Department of Botany at the University of Hawaii Manoa seeks an Ethnobotanist or Conservation Biologist who works at the interface between human communities and plant conservation. Applicants whose research centers on human-modified environments (e.g., agroecosystems, community-managed forests, community-managed marine areas, agroforests, remaining natural areas) at any ecological scale (from genes to ecosystems) are encouraged to apply.

The successful candidate will be expected to develop an active research program that complements existing departmental strengths in Ethnobotany and/or Conservation Biology. Teaching duties will include undergraduate and graduate courses in Ethnobotany and Conservation. Minimum qualifications: A completed PhD in Botany or related field. Documented scholarly achievement, demonstrated ability as a teacher, poise and good address for meeting and conferring with others. Desirable qualifications: Post-doctoral research. Pay range: Commensurate with qualifications and experience.

To apply: Submit a cover letter indicating how you satisfy the minimum and desirable qualifications along with statements of research and teaching interests and experience, three letters of recommendation, curriculum vitae, and official transcripts. Copies of transcripts are acceptable but originals are required for hire.

Application packets without letters of reference should be sent as a single pdf file electronically to botany@hawaii.edu

by November 15, 2011 with hardcopies to follow to Chair, Ethnobotany/Conservation Biology Search Committee, Department of Botany, University of Hawaii at Manoa, 3190 Maile Way, St. John 101, Honolulu, HI. 96822.

Inquiries: Dr. Tamara Ticktin, ticktin@hawaii.edu . Review of applications will begin on November 15, 2011 and will continue until the position is filled.

Anthony Amend <aamend@uci.edu>

UKentucky Evolution

Assistant Professor of Biology University of Kentucky The Department of Biology at University of Kentucky seeks an Integrative Biologist at the Assistant Professor level. Any area of modern biological research will be considered, but we are particularly interested in scientists whose research interests are most likely to complement existing strengths, especially the interests of several recently hired Assistant Professors including development, evolution, genomics and neuroscience. Responsibilities for the successful candidates include establishment of an independent research program that is supported by awards from extramural agencies and contribution to the teaching mission of the Department. For more details on the department and the university, visit our website (http://biology.uky.edu) or contact Dr. Vincent Cassone, Chair, Department of Biology, vincent.cassone@uky.edu or (859) 257-6766. Applicants should send a letter of application, a curriculum vitae, statements on teaching philosophy and experience, and a description of the applicant's research program electronically to biosearch@uky.edu. Applicants should also arrange for three letters of recommendation in pdf format on official letterhead to be sent to the same electronic address. The review of applications will begin November 1, 2011. The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical region. It is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply. The University also supports family-friendly policies.

David Weisrock

Department of Biology University of Kentucky

david.weisrock@uky.edu

UMaryland EvolutionaryBiology

TENURE-TRACK OPEN RANK PROFESSOR: INTEGRATIVE ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology at the University of Maryland, College Park invites applications for a tenure-track position in integrative ecology and evolutionary biology, rank open. We seek outstanding candidates taking experimental, informatic and/or theoretical approaches to address major questions that complement interests of our ecology, evolution and developmental biology groups. Research topics include, but are not limited to, the influence of environment on the development of multicellular organisms, and the role of environment or interspecific interactions on ecological and evolutionary processes. Applicants must have a doctorate degree and should have developed, or demonstrate the potential to develop, an outstanding research program and a record of extramural funding. Applicants must also exhibit a commitment to excellence in teaching. Postdoctoral experience is preferred.

The University of Maryland, College Park is the flagship campus of the University System of Maryland and is one of the most rapidly advancing public research universities in the country. The University sponsors the NSF-funded Socio-Environmental Synthesis Center in Annapolis and has an NSF Advance grant. Our close proximity to Washington D.C., the Chesapeake Bay and the Appalachian mountains facilitates interactions with researchers at an extraordinary range of institutions and field stations (e.g., Smithsonian Institution, NIH, NSF, USDA, USGS Patuxent Research Center, USFWS, Smithsonian Environmental Research Center, University of Maryland Center for Environmental Science). In addition, several major non-governmental organizations have their world headquarters in Washing-

ton, DC (e.g., Conservation International, The Nature Conservancy, World Wildlife Fund).

Applicants should apply electronically to https://-jobs.umd.edu, specifying Integrative Ecology and Evolutionary Biology (faculty position #106165). Applications should consist of a single PDF file containing (1) a letter of application, (2) a curriculum vita, (3) a statement of research interests and plans, (4) a statement of teaching experience and interests, and (5) pdfs of up to two publications. Please arrange for three recommendation letters to be submitted directly to https://jobs.umd.edu, specifying the same information as above. For best consideration, applications should be complete by November 15, 2011.

The University of Maryland is an equal opportunity/affirmative action employer. Applications from minorities and women are encouraged.

CARLOS A. MACHADO Associate Professor Department of Biology University of Maryland machado@umd.edu

"Carlos A. MacHado" <machado@umd.edu>

UMinnesota Duluth EvolutionaryGenetics

Geneticist Search, 2011-12: JOB AD

The Department of Biology at the University of Minnesota Duluth (UMD) invites applications for a tenure-track Assistant Professor position in GENETICS, broadly defined, beginning August 2012. We seek a person with research experience in genetics, or closely related field, who will instruct lecture and laboratory courses in genetics, and develop at least one advanced course in their area of specialization. The area of specialization is open; applications from candidates with expertise ranging from population genetics to genomics will be equally considered. The successful candidate will establish an independent, externally funded research program involving undergraduates, and M.S. and Ph.D. students. Service to the department, college and University is also expected. Opportunities exist for collaboration with researchers at UMD's Natural Resources Research Institute, Large Lakes Observatory, College of Pharmacy, School of Medicine and the EPA Mid-Continent Ecology Division. State-of-the-art research and instruction facilities and competitive startup funding are available. Essential qualifications include a Ph.D. or terminal degree in the biological sciences, evidence of potential for achievement in teaching appropriate for appointment at the Assistant Professor level, peer-reviewed publications, and strong oral and written communication skills. The University of Minnesota requires that you apply online for this position. For a complete position description and information on how to apply online, visit http://-employment.umn.edu/, and search for Job Requisition 174713. Complete applications will be reviewed beginning *November 22, 2011* and continue until the position is filled. The University of Minnesota is an equal opportunity educator and employer.

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Julie R. Etterson University of Minnesota Duluth Department of Biology 207 Swenson Science Building 1035 Kirby Drive Duluth, MN 55812-3004

Office: (218) 726-8110 Lab: (218) 726-7408 Fax: (218) 726-8142 Email: jetterso@d.umn.edu

Julie Etterson <jetterso@d.umn.edu>

UMontreal AquaticMicrobialEvolution

Although this job description does not explicitly ask for an evolutionary Aquatic Microbial Ecology - applicants with an evolutionary angle are most welcome to apply.

Thank you, Chris Cameron

Département de sciences biologiques Faculté des arts et des sciences

Professor of Aquatic Microbial Ecology

The Department of Biology invites applications for a tenure-track position as an Assistant Professor in Aquatic Microbiology or Aquatic Microbial Ecology.

Responsibilities The successful candidate will be expected to teach at all three levels of the curriculum, supervise graduate students, engage in ongoing research and publication, and contribute to the academic life and reputation of the University. Upon arrival, the priority will be to develop an undergraduate course in microbial ecology or microbiology of aquatic ecosystems.

Requirements Ph.D. in aquatic microbiology, microbial ecology or a related field. Postdoctoral research experience is an asset. Strong publication record in international journals with high visibility. Innovative re-

search program in aquatic microbiology and aquatic microbial diversity of prokaryotes and/or eukaryotes. Use of meta-genomic, meta-transcriptomic and meta-proteomic techniques would provide complementary expertise in the department. Candidates are also expected to have a field component to their research program. Candidates will be encouraged to join and collaborate with the Groupe de Recherche Interuniversitaire en Limnologie (GRIL), an interactive group of aquatic researchers from several Quebec universities. Interest in interdisciplinary research and openness to collaboration with members of the Biology Department and other departments of the University. Excellent aptitude for teaching in higher education and incorporating new technologies. Proficiency in the French language. The Université de Montréal is a Québec university with an international reputation. French is the language of instruction. To renew its teaching faculty, the University is intensively recruiting the world's best specialists. In accordance with the institution's language policy [http://www.direction.umontreal.ca/-secgen/recueil/politique_linguistique.html], the Université de Montréal provides support for newly-recruited faculty to attain proficiency in French.

Salary The Université de Montréal offers a competitive salary and a complete range of employee benefits.

Starting Date >From June 1, 2012.

Deadline The complete application, including a cover letter, a curriculum vitae, a description of the research program (2 pages maximum), copies of 3 recent publications or research documents, and a statement of teaching philosophy should be sent by December 15, 2011. Three letters of recommendation are to be sent directly to the department chair at the following address:

Madame Bernadette Pinel-Alloul, (Interim Chair) Monsieur Marc Amyot, (Chair as of December 2012) Département de sciences biologiques Université de Montréal C.P. 6128, succ. Centre-ville Montréal (Québec) H3C 3J7

For more information about the Deprtment of Biology, please consult the Web site at: www.bio.umontreal.ca . Confidentiality The Université de Montréal application process allows all regular professors in the Department to have access to all documents unless the applicant explicitly states in her or his cover letter that access to the application should be limited to the selection committee. This restriction on accessibility will be lifted if the applicant is invited for an interview. Employment Equity Program The Université de Montréal upholds the principles of employment equity and welcomes applications from women, ethnic and visible minorities, aboriginals and people with disabilities. Applicants who belong to one of these groups are asked to complete the employment equity identification questionnaire posted www.fas.umontreal.ca/-affaires- professorales/documents/quest-acces-emploi-EN.pdf and attach it to their application. Immigration Requirements In compliance with Canadian immigration requirements, priority shall be given to Canadian citizens and permanent residents.

Cameron Christopher <c.cameron@umontreal.ca>

UMontreal EvolutionaryAdaptivePhysiology

This position is open to evolutionary biologists of Animal Ecophysiology or Adaptive Physiology.

Cordially, Chris Cameron

Department of Biological Sciences Faculty of Arts and Science

Professor of Animal Ecophysiology or Adaptive Physiology

The Department of Biological Sciences invites applications for a full-time tenure-track position as Assistant Professor in Animal Ecophysiology or Adaptive Physiology.

Responsibilities The successful candidate will be expected to teach at all three levels of the curriculum, supervise graduate students, engage in ongoing research and publication, and contribute to the academic life and reputation of the institution.

Requirements PhD in Biology with a specialization in animal physiology, ecophysiology, development or endocrinology. Postdoctoral research experience. Excellent publication record in international scientific journals. Development of an innovative, competitive world-class research program in animal physiology integrating adaptive and evolutionary aspects with respect to the environment. Able to integrate comparative and molecular approaches in the research program. Open to interdisciplinary and collaboration with department members. Ready to assume teaching of comparative physiology and adaptive ecology at the undergraduate level. Proficiency in the French language. The Université de Montréal is a Québec university with an international reputation. French is the language of instruction. To renew its teaching faculty, the University is intensively recruiting the world's

best specialists. In accordance with the institution's language policy [http://www.direction.umontreal.ca/-secgen/recueil/politique_linguistique.html], the Université de Montréal provides support for newly-recruited faculty to attain proficiency in French.

Salary The Université de Montréal offers a competitive salary and a complete range of employee benefits.

Starting date >From June 1, 2012.

Deadline The complete application, including a cover letter, a curriculum vitae, copies of 3 recent publications or research, a description of their research program (2 pages maximum), and their teaching philosophy should be sent by December 15, 2011.

Three letters of recommendation are to be sent directly to the department chair at the following address:

Madame Bernadette Pinel-Alloul, (Interim Chair) Monsieur Marc Amyot, (Chair as of December 2011) Département de sciences biologiques Université de Montréal C.P. 6128, succ. Centre-ville Montréal (Québec) H3C 3J7

For more information about the Department of Biology, please consult the Web site at : www.bio.umontreal.ca.

Confidentiality The Université de Montréal application process allows all regular professors in the Department to have access to all documents unless the applicant explicitly states in her or his cover letter that access to the application should be limited to the selection committee. This restriction on accessibility will be lifted if the applicant is invited for an interview.

Employment Equity Program The Université de Montréal upholds the principles of employment equity and welcomes applications from women, ethnic and visible minorities, aboriginals and people with disabilities. Applicants who belong to one of these groups are asked to complete the employment equity identification questionnaire posted www.fas.umontreal.ca/affaires-professorales/documents/quest-acces-emploi-EN.pdf and attach it to their application.

Immigration Requirements In compliance with Canadian immigration requirements, priority shall be given to Canadian citizens and permanent residents.

Cameron Christopher <c.cameron@umontreal.ca>

UNeuchatel Evolution Parasites

The University of Neuchâtel, Switzerland, invites applications for a position of Full professor in Biology of Parasites

Job description: The successful candidate is expected to establish an internationally recognized research programme in parasitology. We are particularly interested in researchers using original and innovative approaches to work on host-parasite interactions in animal systems. The appointee will teach at all levels of the biology curriculum (bachelor, master and doctoral school). A non-French speaking appointee would be asked to achieve fluency in French following a period of adaptation to teach undergraduate courses in French.

Starting date: 1st August 2012 or upon agreement.

Requirement: PhD degree in biology or in another life science discipline, as well as an internationally recognized research record.

Applications should be sent by regular mail to the Dean of the Faculty of Science, Prof. Peter Kropf, Rue Emile Argand 11, 2000 Neuchâtel, Switzerland, as well as by email to (doyen.sciences@unine.ch). Deadline: 15 November 2011.

Applications should include a letter of motivation and a résumé (CV) containing lists of obtained research funding, publications and teaching experience. The application should also include copies of academic degrees, a brief teaching statement (max. 1 page) and a research statement that details the candidate's research interests and the projects he/she plans to develop at the University of Neuchâtel (max. 2 pages). The candidate will ask 3 experts to send a reference letter by email directly to the head of the Hiring Committee, Prof. F. Kessler (felix.kessler@unine.ch).

The University of Neuchâtel encourages women to apply.

Additional information can be requested from the head of the Hiring Committee, Prof. F. Kessler (felix.kessler@unine.ch) or to the Dean (doyen.sciences@unine.ch). Further details can be found atwww.unine.ch/sciences . mjvoordouw@gmail.com

UOregon 4 BioMath

Colleagues,

The University of Oregon is searching for four new fac-

ulty to join a growing cohort of researchers working at the interface of mathematics and biology. We are conducting two separate, but related, searches to fill these positions. The first is a cluster of three faculty hires into the Departments of Mathematics and Biology, and the second is a position in the Robert D. Clark Honors College in Biophysics and Computational Biology. These are new positions created because the research and educational mission of the University has grown substantially over the last decade. Successful candidates will therefore be part of an exciting new growth area at the University of Oregon that will build upon existing strengths in evolution, molecular biology, neuroscience, development and genomics.

See below for more information and details on how to apply.

Sincerely, Bill

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1) Faculty Positions Bridging Mathematics and Biology

The Departments of Biology (http://-biology.uoregon.edu) and Mathematics (http://-math.uoregon.edu) at the University of Oregon announce a cluster hire of three tenure-related faculty positions in Fall 2012. At least one of these positions will be at the level of Associate or Full Professor with indefinite tenure. These hires are part of an integrated effort to strengthen research and scholarship at the nexus of mathematics and biology at the University of Oregon, and will serve as a catalyst for future growth in this area. We are broadly interested in recruiting candidates working in areas integrating mathematical approaches into biological inquiry, or who develop mathematical or statistical methodology related to the life sciences.

Examples of these areas include, but are not limited to, systems biology and functional genetics, dynamical systems in biology, statistical analysis of large data sets, algorithms for analyzing sequence data, game theory, stochastic models for population genomics and molecular evolution, and machine learning. Applicants working to integrate biology and math in other areas are also encouraged to apply. Successful candidates will bolster our emerging strengths in biomathematics, maintain an outstanding research program that focuses on solving core problems in this area, and have a commitment to excellence in teaching. Ph.D. required. Position responsibilities include undergraduate teaching.

Interested persons should apply online to the MATH-BIO SEARCH, University of Oregon at https://-www.mathjobs.org/jobs/jobs/3063. Applicants should submit a cover letter, a curriculum vitae including a publication list, a statement of research accomplishments and future research plans, a description of teaching experience and philosophy, and three letters of recommendation. To be assured of full consideration, application materials should be uploaded by November 15th, 2011, but the search will remain open until the positions are filled. Women and minorities are encouraged to apply.

2) Faculty Position in Biophysics and Computational Biology

The Robert D. Clark Honors College of the University of Oregon invites applications for a tenure track assistant professor position in biophysics and/or computational biology. We seek specialization in theoretical and/or computational approaches. Scholars employing bioinformatics, molecular biophysics and/or systems biology to investigate fundamental questions regarding the structure and function of biological systems are particularly encouraged to apply. Applicants should demonstrate an outstanding record of research accomplishment and evidence of exceptional promise in teaching as well as innovative, interdisciplinary approaches to honors science education. The successful candidate will be expected to establish a vigorous, externally funded research program. The CHC expects faculty research of the highest quality and applies promotion and tenure standards for scholarship in the faculty memberÊ$\frac{1}{4}$s primary scientific field. The successful candidate will teach primarily within the Clark Honors College and will share responsibility for its introductory science curriculum and science advising. Research activities and graduate teaching and advising will be facilitated via membership in the appropriate UO science departments and institutes.

The Clark Honors College is a liberal arts college of about 700 undergraduate students and 15 faculty in the arts and sciences within the larger research university. The mission of the CHC is to provide high-achieving students with an intensive small college experience and to foster lively conversation across the arts and sciences. The CHC curriculum emphasizes undergraduate research; courses in all fields are taught in a discussion-based seminar format. Completion of a PhD in physics, biology, or a related field is required.

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URhodeIsland ResTech EvolEcolGenet

Research Technician: University of Rhode Island

The Kolbe lab in the Department of Biological Sciences at the University of Rhode Island seeks a full-time research technician and laboratory manager. Research in our lab focuses on the evolutionary ecology and evolutionary genetics of invasive species, particularly Anolis lizards. This position requires a B.S. in biology or a related field, molecular genetic and/or evolutionary genetic laboratory research experience including PCR, and preferably, experience with microsatellite or SNP genotyping. Strong organizational, communication, and interpersonal skills are required.

Duties will include ordering lab supplies; preparing solutions and reagents; carrying out of DNA extractions, PCR, sequencing and genotyping; and conducting phylogenetic and population-genetic analyses of molecular data. Will supervise adherence to Chemical Safety and IACUC and related policies and practices; maintain live animals (lizards); train students in molecular techniques; and maintain lab equipment. Must be self-motivated and interested in collaborating with the PI and students on all aspects of the research process.

Please direct questions to Dr. Jason Kolbe at jjkolbe@mail.uri.edu and visit our website at https://jobs.uri.edu to view complete details and apply for posting # (6000557). Online applications will require two PDF attachments: 1) a cover letter, and 2) a resume to include the names/addresses/email addresses for 3 references. Online applications will close October 21, 2011. The University of Rhode Island is an AA/EEOD employer and values diversity.

Jason J. Kolbe Department of Biological Sciences University of Rhode Island CBLS 189, 120 Flagg Rd. Kingston, RI 02881 USA Email: jjkolbe@mail.uri.edu Website: http://web.me.com/jjkolbe jjkolbe@gmail.com

UTexas 2 EvolutionaryBiol

Two Tenure-track Faculty Positions: Ecologist and Evolutionary Biologist, The University of Texas Arlington

As part of an ongoing expansion, The University of Texas at Arlington Department of Biology seeks to hire two biologists at the rank of Assistant Professor. Successful applicants are expected to have a strong publication record, the potential to establish a nationally recognized and extramurally funded research program, and to contribute to both undergraduate and graduate education.

Ecologist: The first position is open to individuals with expertise in any area of ecology. Research specialties might include, but are not limited to, population and community ecology, urban ecology, behavioral ecology, paleoecology or global change.

Evolutionary Biologist: The second position is open to individuals with expertise in using integrative approaches to understand the evolutionary mechanisms underlying responses of organisms to their environments. Research specialties might include, but are not limited to, biodiversity/speciation, ecology and evolution of infectious disease, ecological genomics or metagenomics.

Any questions regarding these positions may be directed to Dr. Sophia Passy, sophia.passy@uta.edu.

The University of Texas Arlington is a comprehensive university, offering a wide range of undergraduate and graduate degree programs. Current enrollment at the university exceeds 33,000. UT Arlington is part of the University of Texas System and is located in the heart of the Dallas-Fort Worth metropolitan area.

Applicants should submit a curriculum vitae; statements of research and teaching interests; names, and e-mail addresses of four persons who can provide letters of reference. Send applications by email attachment to Ms. Linda Taylor, lktaylor@uta.edu or by regular post to Department of Biology, University of Texas at Arlington, Box 19498, Arlington, TX 76019-0498; indicate in the application for which position you are applying. For full consideration, the applications must be received before November 1, 2011. Applicants who are selected for interviews must be able to show proof that they will be eligible and qualified to work in the United States by the time of hire.

UT Arlington is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. This is a security sensitive position, and a criminal background check will be conducted on finalists. The use of tobacco products is prohibited on UT Arlington properties.

paulc@uta.edu

WestVirginiaU ComputationalGenomics

Computational Genomics: West Virginia University invites applications for a tenure-track position at the Assistant or Associate Professor level in the Department of Biology beginning August 2012. We are seeking applications from individuals with a broad biology background and a computationally-intensive research focus. Successful applicants may participate in existing programs in genomics, microbiology, neurobiology, and molecular, developmental, and environmental biology.

The successful applicant should function effectively in university-wide interdisciplinary research initiatives, with opportunities for collaborations in computer science, mathematics, and statistics, as well as the above areas of biology. Candidates must demonstrate excellent written and oral communication and teaching skills and the potential to secure external funding. A PhD or equivalent is required, with preference given to candidates with postdoctoral experience, a strong record of scholarly publications, and evidence of effective teaching at the undergraduate and graduate levels. Applicants at the Associate Professor level should have a demonstrated ability to obtain significant external funding and possess an outstanding publication and teaching record.

Qualified applicants should submit statements of research interests and teaching philosophy, curriculum vitae, representative publications, and a list of three potential references to WVUBiology@mail.wvu.edu. Review of applications will commence on November 8 and continue until the position is filled.

For more information about the position contact Stephen DiFazio, spdifazio@mail.wvu.edu. See www.as.wvu.edu/biology/faculty/positions.htm for more information about WVU and the city of Morgantown. Women, minorities, and persons with disabilities are strongly encouraged to apply, and the university is supportive of the needs of dual career couples. West Virginia University is an Equal Opportunity, Affirmative Action Employer and the recipient of an NSF ADVANCE award for gender equity.

Stephen DiFazio <Stephen.DiFazio@mail.wvu.edu>

Other

Allele size permutation tests

I have a questions regarding the microsatellite allele size permutation tests of Hardy et al. 2003 (Genetics 163: 1467-1482), as implemented in the software SPAGeDi. By permuting the allele sizes (number of repeats) among the alleles within the loci (ASaAwL in SPAGeDi), one may test whether stepwise allele size shifts inform population differentiation. If so, observed Rst will be significantly larger than mean permuted Rst (pRst). The null hypothesis is that differences in allele size do not contribute to differentiation.

SPAGeDi returns results for all loci and for each locus . Here is my conundrum. For all of the 31 loci across 10 populations, the hypothesis is validated (Rst > pRst) at p (1-sided test, H1: obs>exp) < 0.01, however, only 6 out of 31 loci are significant for this test. pRst tracks Fst almost exactly - further support of the null hypothesis. Why is the H1 significant across all loci?

Thanks, Alan

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: 786-573-7102 email: alan.meerow@ars.usda.gov

"Meerow, Alan" <Alan.Meerow@ARS.USDA.GOV>

Amphibian conservation

Dear colleagues,

Global pandemic affects amphibians - Are you ready to react?

With this widely distributed email, I am aiming for your help and assistance in filling in a questionnaire for my work and distributing this email to your friends, colleagues and acquaintances, so that I may get a representative sample across Europe. I would be really grateful, if you could find the time to follow the link below and fill in the questions.

English: http://www.bd-maps.eu/survey/ French: http://www.bd-maps.eu/survey/?lang=fr German: http://www.bd-maps.eu/survey/?lang I thank you in advance for your help With kindest regards Dirk Schmeller

The context of the study: Chytridiomycosis is an infectious disease that affects amphibians worldwide. It is caused by the chytrid fungus (Batrachochytrium dendrobatidis), a fungus capable of causing sporadic deaths in some amphibian populations and 100% mortality in others. In the Pyrenees mass die-offs in amphibian populations at high altitude were already documented in 2007, and the disease is spreading fast. How the disease can spread so fast is still enigmatic and subject of an international project (RACE, www.bd-maps.eu). At the Station dEcologie Experimentale du CNRS à Moulis (St. Girons, Ariege, France), Dirk S. Schmeller and his team try to collect data on hiking habits and attitude towards possible conservation measures. The survey will help this group of researchers to develop mitigation and conservation strategies adapted to the public. Once you have finished the survey you will be directed to a page with more information concerning the amphibian disease. In case, you would want to be informed about events related to amphibian diseases, feel free to provide your email address.

Thank you very much for your collaboration.

"Dirk S. Schmeller" <dirk.schmeller@dr14.cnrs.fr>

ASN Award and Nomination Deadlines

Nominations for ASN Executive Committee Members of the American Society of Naturalists (ASN) are invited to submit nominations for the Executive Committee (EC). Elections will be held in 2012 for President, Vice President, and Secretary. The President will serve on the EC from 2013 through 2017 and act as President in 2014. The Vice President will serve on the EC from 2013 through 2014 and attend EC meetings ex officio in 2015. The VP symposium will be presented at the meetings in 2014. The Secretary will serve on the EC from 2013 through 2015 as Secretary and from 2016 through 2018 as Past Secretary. Letters of nomination should be submitted by December 1, 2011, to asn@press.uchicago.edu. Please indicate Nomination in the subject line.

Nominations for 2012 Sewall Wright Award The Sewall Wright Award is given annually and honors a senior but active investigator who is making fundamental contributions to the Societys goals, namely promoting the

conceptual unification of the biological sciences. The award includes an honorarium of $1,000. The recipient need not be a member of the Society. For the 2012 Sewall Wright Award, the nomination packet, which must include a letter of nomination and a curriculum vitae including a publication list, should be sent by December 1, 2011, to asn@press.uchicago.edu. Please indicate Wright Award in the subject line.

Nominations for 2012 Edward O. Wilson Naturalist Award The Edward O. Wilson Naturalist Award is given to an active investigator in midcareer who has made significant contributions to the knowledge of a particular ecosystem or group of organisms. Individuals whose research and writing illuminate principles of evolutionary biology and an enhanced aesthetic appreciation of natural history will merit special consideration. The recipient need not be a member of the Society. The award will consist of an especially appropriate work of art and a prize of $2,000, presented at the annual meeting of the American Society of Naturalists. For the 2012 Edward O. Wilson Naturalist Award, a nomination packet that includes a letter of nomination, a curriculum vitae including a publication list, and three key publications should be sent by December 1, 2011, to asn@press.uchicago.edu. Please indicate . O. Wilson Award in the subject line.

Applications for 2012 Jasper Loftus-Hills Young Investigators Award The Jasper J. Loftus-Hills Young Investigators Award was established in 1984 to recognize promising, outstanding work by investigators who received their doctorates in the three years preceding the application deadline or who are in their final year of graduate school. Jasper Loftus-Hills (1946V1974) was an Australian biologist of exceptional promise, who had published 16 articles in the three years after receiving his degree. He was killed by a hit-and-run driver while tape recording frog calls along a Texas highway. The recipient need not be a member of the Society. The award includes presentation of a research paper at the annual meeting of the ASN, an award of $500, a travel allowance of $700, and a supplement of $500 in case of international travel. The prize committee requests applications for the 2012 award from anyone supporting the objectives of the Society. Suggested names and addresses of people who should be encouraged to apply are also welcome. Applications should consist of no more than three pages (excluding tables, figures, and references) that summarize the applicants work, no more than four appropriate reprints, a curriculum vitae, and two letters from individuals familiar with the applicants work. Application materials should be sent via e-mail by December 1, 2011, to asn@press.uchicago.edu. Please indicate Investigators Prize in the subject line.

Applications for ASN Student Research Award The ASN announces the first annual Student Research Awards, which support research by student members that advances the goals of the society: the conceptual unification of ecology, evolution, or behavior. The award consists of a $2,000 check to the candidate. An applicant must be a member of the ASN (membership is international), must hold a bachelors degree or equivalent, must have passed to candidacy in a PhD program or equivalent, and must be at least one year from completing the PhD. Applicants should send a two-page proposal (not including references). In addition, applicants should include a budget with justification (one page), a short curriculum vitae (two pages), a statement from the PhD supervisor that verifies that the applicant meets the eligibility requirements, and the supervisors recommendation supporting the research proposed by the student (one page). Projects in all types of research (i.e., laboratory, field, theory) are encouraged. Proposals will be judged

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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

Boreal forest conservation

Dear Evolutionary Biologists,

I'm sending this conservation issue on behalf of an ecologist in my Department, Dr. Jeremy Kerr. It relates to what is likely the largest conservation commitment in history and the current situation is that Quebec Premier Jean Charest is wobbling *a lot* about whether he'll conserve vast tracts of boreal areas as wilderness (what he said he'd do) or allow logging to proceed in these wilderness areas.

If you agree, please do consider adding your name to the letter. We have used this approach in the past and it has sometimes proven very helpful.

Dear Fellow Scientist,

This is a critical moment for the conservation of the Boreal Forest in Quebec, Canada. The government of Quebec is in the process of writing legislation for its Plan Nord region which, if implemented as promised,

could result in over 600,000 square kilometers (140 million acres) in the North set aside for the protection of biodiversity and natural heritage and safeguarded from industrial development.

In order to show our support and hold Premier Jean Charest to his commitment of protecting half of northern Quebec, we have put together a scientist sign-on letter in the hopes of gathering large numbers of signatures from scientists around the world.

We invite you to follow this link http://-www.borealbirds.org/petition-quebec/ to read the letter to Premier Charest and consider adding your name in support.

Sincerely, The Canadian Boreal Initiative and the Boreal Songbird Initiative

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Cher collègue scientifique,

Nous nous trouvons à un moment critique pour la conservation de la forêt boréale au Québec. Le gouvernement du Québec en est à l'étape d'écrire une loi pour la région couvrant le territoire du Plan Nord.

Si cette loi est bien appliquée, tel que promis, elle pourrait se traduire par plus de 600.000 kilomètres carrés du Nord mis de côté pour la protection de la biodiversité, du patrimoine naturel et protégés du développement industriel.

Afin de démontrer notre appui et de tenir le Premier Ministre Charest garant de son engagement de protéger la moitié du nord du Québec, nous avons mis en place une lettre électronique à signer par les scientifiques en espérant recueillir un grand nombre de signataires de partout à travers le monde.

Nous vous invitons à suivre ce lien http://-www.borealbirds.org/petition-quebec/?lng=frpour lire la lettre au Premier Ministre Charest et considérer y ajouter votre nom à l'appui.

Cordialement, L'Initiative Boréale Canadienne et la Boreal Songbird Initiative

Howard D. Rundle, Associate Professor Department of Biology, 30 Marie-Curie Priv. University of Ottawa, Ottawa, ON, K1N 6N5, CANADA Ph: +1 613-562-5800 x2835; Fax: +1 613-562-5486; Skype: howard-drundle http://www.science.uottawa.ca/ ~ hrund050 http://www.evolution.uottawa.ca for

Jeremy Kerr CFER - Canadian Facility for Ecoinformatics Research Biology, University of Ottawa 30 Marie Curie, Ottawa ON K1N6N5 jkerr@uottawa.ca http://-www.macroecology.ca howard.rundle@uottawa.ca

Drosophila MRCA dates

Hi!

*Without* looking at the literature, please attempt to answer the following questions:

[1] When was the most recent common ancestor of Drosophila melanogaster and Drosophila simulans?

[2] When was the most recent common ancestor of the subgenera Sophophora and Drosophila (from example, the MRCA of D.melanogaster and either D. virilis or D. mojavensis. This is the date at the root of the 12-genomes phylogeny).

Please send any answers by email to darren.obbard@ed.ac.uk

My aim is to survey the community's opinion (including any errors or misapprehensions), not to directly survey the literature. So PLEASE answer questions [1] and [2] without looking them up first. If you wish, you can also name any paper that you might have in mind when you give your answer - but again PLEASE DO NOT look at that paper to check your answer. All answers will be treated anonymously, and the results published here in due course.

If you distrust point estimates (as you should) please give confidence intervals. These could be a point estimate plus-or-minus a standard error, or a point estimate with 95% confidence intervals, or a flat stepped distribution of your choice (for example, "anywhere between X and Y million years ago"). I am also happy to take a multi-spiked distribution ("either X or Y million years ago"), including one with a zero-bound ("less than Z million years ago") or any specific distribution of your choice (e.g. paste in the R-code).

If you have absolutely no informed opinion, but you have persisted in reading this far anyway, you are clearly the sort of person whose wild guess I would like to hear about. Please just take a guess (with any error distribution you feel is appropriate) and just let me know that it is an uninformed guess.

Thank you for taking the time to read this email, and I look forward to hearing any and all (un)informed guesses.

Best wishes,

Darren –

Darren Obbard Institute of Evolutionary Biology University of Edinburgh, UK darren.obbard@ed.ac.uk

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Darren Obbard <darren.obbard@ed.ac.uk>

Evolution blog

Application deadline: December 1, 2011

Are you a blogger who is interested in evolution? For the third year in a row, the National Evolutionary Synthesis Center (NESCent) is offering two travel awards to attend ScienceOnline2012 < http://-/scienceonline2012.com/ >, a science communication conference to be held January 19-21, 2012, at North Carolina State University.

The awards offer the opportunity to travel to North Carolina to meet with several hundred researchers, writers, editors and educators to explore how online tools are changing the way science is done and communicated to the public. Each winner will receive $750 to cover travel and lodging expenses to attend the conference. For more information about the program for this year's conference, visit http://scio12.wikispaces.com/-Program+Suggestions . To apply for an award, writers should submit a blog post that highlights current or emerging evolutionary research. In order to be valid, posts must deal with research appearing in the peer-reviewed literature within the last five years. Posts should be 500-1000 words, and must mention the NESCent contest. Two recipients will be chosen by a panel of judges from both NESCent and the science blogging community.

You can submit your blog by emailing it to us at travel.award@nescent.org. Please send your name, contact information, the title and date of your blog post, and a URL.

Winners will be notified by December 15th, 2011.

For more information contact Craig McClain at cmcclain@nescent.org or Robin Smith at rsmith@nescent.org.

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Robin Ann Smith, Ph.D. Science Writing and Communications National Evolutionary Synthesis Center 2024 W. Main Street, Suite A200 Durham, NC 27705 Tel: 919-668-4544 rsmith@nescent.org http://robinannsmith.com/ http://twitter.com/-NESCent www.nescent.org/ Robin Smith <ras10@duke.edu>

Evolution in Biostatistics course

Dear friends,

I am teaching Ecology, Evolution and also Statistics for Biology students and I would like to use some kind of quantitative activity in the Statistics course using the subject of evolution.

I am teaching about t tests, ANOVA, correlation, regression, nonparametric tools, and I would like not just to show lots of numbers in a spreadsheet but to create something like a short term project. So, the students would collect the data to analyse them after that.

I am thinking about DNA or chromossome band comparision among species. Maybe using chromossome pictures and DNA sequencies but... I would like to ask for some help about ideas and materials!

I am doing field classes to colect ecological data to be used in the Statistics course but now I would like to do something about evolution! I dont have a lab here or a budget for something more complex like Drosophila growth, reproduction and mutation and thats why I am thinking about something using models, pcitures, etc.

Any materials and ideas to share?

Thanks for any help!

Voltolini

Prof. Dr. J. C. VOLTOLINI Universidade de Taubate - Departamento de Biologia Taubate, SP. 12030-010. E-Mail: jcvoltol@uol.com.br * Grupo de pesquisa ECOTROP CNPq: http://-dgp.cnpq.br/buscaoperacional/detalhepesq.jsp?pesq=-8137155809735635 * Currículo Lattes: http:/-/lattes.cnpq.br/8137155809735635 * Fotos de Cursos e Projetos no Orkut e Facebook: http://www.orkut.com.br/Main#Profile?uid=-17608429643840608483 http://www.facebook.com/-VoltoliniJC?v=info "Siamo tutti angeli con un'ala e possiamo volare soltanto se ciabbracciamo"

jcvoltol@uol.com.br

Funding advice

“ Funding Advice

I was very much hoping that someone may be able to give me some good suggestions/advice. I am a British National currently employed by a Thai University to do both Macroecology, global change/biodiversity and systematics/evolution/biogeography research. I need funding to conduct the research itself (mainly fieldwork) but seem ineligible to most schemes, which require either Nationals of a country in a developing country, or developed country researchers (employed in that country) to conduct research either in that country-or collaboratively outside”.

I would really appreciate any suggestions!

Thanks in advance

Alice Hughes PSU post-doctoral research fellow Prince of Songkla University

Thanks so much! Alice

alice Hughes <dr_achughes@hotmail.co.uk>

Identifying msats using NGS

Dear Evodir members,

We are embarking on a microsatellites development project for two invertebrate species. From previous posts in Evoldir it seems that next generation sequencing platforms are the recommended way nowadays. I was wondering if there are companies/labs performing this service using the Ion Torrent platform in order to do a whole genome sequencing and identify msats from the reads. What is the cost in such a case? I already have an idea about the cost using other NGS platforms through the posts in Evoldir. Any clues will be greatly appreciated.

All the best,

AP

–

ARIS PARMAKELIS, MSc., PhD. Biology Building Department of Ecology and Taxonomy (Room 41) University of Athens Panepistimioupoli Zografou GR-15784, ATHENS, GREECE Tel.: ++302107274736 aparmakel@biol.uoa.gr parmakel@nhmc.uoc.gr parmakel@edu.biology.uoc.gr http://uaeco.biol.uoa.gr/-uameco http://publicationslist.org/aparmakel Aristeidis Parmakelis <aparmakel@biol.uoa.gr>

Heritability in nonnormality data

Hi all,

Linearity and additivity are fundamental assumptions of most polygenic or multifactorial models, however I d like ask about Heritability analysis in non normality data. Its reasonable calculate heritability to log_weight? I d appreciate any comment

Thanks in advance Regards Rodrigo

Rodrigo Badilla. Biologo Marino. Candidato a Doctor en Acuicultura. Laboratorio de Genetica Marina. ULPGC, España

Rodrigo Badilla <rodrigo.badilla@gmail.com>

Large mirrored trees answer

All,

Nearthe beginning of the year I posted the email below regarding large mirrored trees. I received about a dozen responses, some of which instructed me to use R (which I haven’t done), and others suggesting that I use Mesquite or Treemap3. The mirror tree option in Mesquite doesn’t do exactly what I wanted, and I never could get Treemap3 to work correctly. However, I recentlydownloaded the new Dendroscope3 http://-/ab.inf.uni-tuebingen.de/software/dendroscope/. This package does exactly what I wanted. Concatenate two competing newick files, open with Dendroscope, and click the button on top tab that says “Connect all taxa

of the same name...". Another term used for this diagram is tanglegram, which helps if you go googling.

Thanks again to everyone who replied, and I hope this helps those who were in the same boat,

Mike Sandel

Hello all,

I'm hoping to find a program that will simultaneously display two competing topologies in a mirrored image (which illustrates topological discordance). I have two large trees with equivalent taxon samples (n9), but it will be a pain to illustrate topological discordance by hand in Adobe.

Any help or info is appreciated!

Michael Sandel <kwksand@yahoo.com>

Msats via NGS

Dear all,

I am posting the responses I received from a previous post of mine relating to NGS and msats development. Many of you asked me to put together the responses I would get from Evoldir members. I am posting my original question and the responses. It seems that 454 is the platform that most users are suggesting. Thanks again to all the members of Evoldir that responded.

Aris

=== Question

Dear Evodir members,

We are embarking on a microsatellites development project for two invertebrate species. From previous posts in Evoldir it seems that next generation sequencing platforms are the recommended way nowadays. I was wondering if there are companies/labs performing this service using the Ion Torrent platform in order to do a whole genome sequencing and identify msats from the reads. What is the cost in such a case? I already have an idea about the cost using other NGS platforms through the posts in Evoldir. Any clues will be greatly appreciated.

Response 1.

Whatever the seqencing platform you use, you may want to try this option to identify msats in your NGS sequence results (http://evopipes.net/findssr.html).

Best wishes,

Taki

Response 2.

You may check out http://www.genoscreen.com/ They do it for about 2000 â¬, *Ibelieve*.

Best wishes,

Christoph

Response 3.

We aren't, but the Josephine Bay Paul Center at the Marine Biological Laboratory has a Roche 454, a HiSeq2000 and an Ion Torrent. http://jbpc.mbl.edu/ Email Hillary Morrison or Mitch Sogin.

Jed

Response 4.

Dear Aris,

the attached paper (Journal of Heredity doi:10.1093/jhered/esq069) might be of interest for you. I am currently following the same approach for msat developement and it works just fine! However, you should not forget about the costs of additional primer pairs which you will need to order and which will not lead to nice/variable lociâ

Corine

Response 5.

You can find some really good information on all the NGS platforms in the attached paper and here: http://www.molecularecologist.com/next-gen-fieldguide/ Good luck! -MLJ

Response 6.

Hi Aris,

See here: http://seqanswers.com/forums/-showthread.php?t=11302 A couple of questions; Is your main objective just to recover microsatellites? If so, why do you want to sequence the entire genome using Ion Torrent? De novo assembly of an Ion tTorrent generated genome is not a trivial task, and I imagine it would produce less satisfactory results in

microsat acquisition compared to the already published protocols using 454 sequencing (whch focus specifically on isolating micros, and not sequencing an entire genome). 454 sequencing has shown to produce great results in developing micros. In my opinion there is no point trying to reinvent the wheel using Ion torrent.

Cheers,

Jack

–

ARIS PARMAKELIS, MSc., PhD. Biology Building Department of Ecology and Taxonomy (Room 41) University of Athens Panepistimioupoli Zografou GR-15784, ATHENS, GREECE Tel.: ++302107274736 aparmakel@biol.uoa.gr parmakel@nhmc.uoc.gr parmakel@edu.biology.uoc.gr http://uaeco.biol.uoa.gr/-uameco http://publicationslist.org/aparmakel aparmakel@biol.uoa.gr

mtDNA variation data

Dear all,

As a part of an ongoing study on mitochondrial polymorphism in animals, we are collecting data on variation in mitochondrial DNA within natural populations. If you have any unpublished data along with any information about the number of individuals analyzed, the number of genes sequenced, population size, population connectivity etc., or are aware of any such data that might be in sources that are not easily found on Web of Science searches (e.g. book chapters), we would greatly appreciate if you could share it with us. If this study leads to a publication, we will properly cite and acknowledge all contributors. Any pointers would be appreciated!

Thank you,

Erem Kazancioglu

Uppsala University, Evolutionary Biology Centre

erem.kazancioglu@ebc.uu.se

Noninvasive DNA extraction

Hi Everyone,

Can somebody please help me with the issue below. I am new to DNA extraction from animal tissues (as Ive only worked with plants), and Id like to wonder what non-invasive sampling technique can be recommended for small mammals (as wed like to work with a highly endangered animal no liver, heart, etc. samples are normally available)? What storage conditions can be recommended before DNA extraction? Does 95% ethanol provide good samples for amplification of fragments >1 kb? (In plants it does not.) The general practise in plants to store plant tissue before extraction in silica-gel, and it usually provides high quality DNA. Does this work in animals? We would also like to work with (old) museum preserved specimens and skeletal samples found in owl pellets. Is there a good method to extract DNA from these tissues where we expect to have small quantities of fragmented DNA?

Thanks a lot!

Cheers to the community, Orsi

Horvth Orsolya <horsolya@gmail.com>

Online QTL course info

Hi all,

I am a PhD student in the area of fish genetic, actually i am finishing my thesis and i am interesting in some course about QTL analysis.

I d like know if someone have some information about some online QTL course , i have good experience in molecular markers, quantitative genetics and softwares. i would appreciate any information about it.

Thanks in advance Regards Rodrigo

Rodrigo Badilla <rodrigo.badilla@gmail.com>

Passing of AlanWilton

It is with deepest regret that I, Mark Wilton, must announce the passing of Alan Wilton.

Yesterday afternoon he had enjoyed a ride in his wheel chair along the promenade of his beloved Coogee Beach.

He was not in any pain and had a comfortable night. He passed away peacefully early this morning.

Thank you all for all the support in recent times.

Funeral arrangements are being made and will be communicated soon.

It is Alan's, Barbara's and the family's wishes that flowers are not sent. Instead we hope to make a facility where donations can be made to one of Alan's passions, to adopt a dingo at the Dingo Sanctuary, or alternatively donations can be made to cancer research in memory of Alan.

This email sent by Mark Wilton 0407-077959

Alan Wilton School of Biotechnology and Biomolecular Sciences University of New South Wales NSW 2052 Australia

CRICOS Provider Code 00098G

Phone +61 2 9385 2019 Fax + 61 2 9385 1483 Mobile 0422 736 425

Website http://www.babs.unsw.edu.au/-directory.php?personnelID Canine DNA Testing Information http://www.babs.unsw.edu.au/-canine_genetics_facility.php Forms for DNA testing of CL or TNS http://web.science.unsw.edu.au/~awilton/ Mark Wilton <markw@csas.com.au>

Phrase EvolutionistsDelight

Dear All,

I should be very grateful to learn who coined / was the first to use in print the phrase "taxonomist's nightmare - evolutionist's delight".

Many thanks, Florian

Florian M. Steiner Molecular Ecology Group, Institute of Ecology University of Innsbruck, Technikerstr. 25, A-6020 Innsbruck, Austria Phone ++43-512-507-6120, Fax ++43-512-507-6190 http://www.uibk.ac.at/-ecology/forschung/molecular_ecology.html birgit.florian@gmail.com

Phrase EvolutionistsDelight answers

Many thanks to all who have replied to my request of 14 October! My request read: "I should be very grateful to learn who coined / was the first to use in print the phrase "taxonomist's nightmare - evolutionist's delight"."

Here is how I see the situation now, based on the replies: MACINTYRE (1967) was the first to use the phrase in print but it was also attributed to Arthur J. Cain (UZZELL & ASHMOLE 1970) and used, in plural form and apparently independently, by WOODRUFF (1978). MACINTYRE, G.T. (1967): Foramen pseudovale and quasi-mammals. - Evolution 21: 834-841. UZZELL, T. & N.P. ASHMOLE (1970): Suture-zones - an alternative view. - Systematic Zoology 19: 197-199. WOODRUFF, D.S. (1978): Review: mechanisms of speciation. - Science 199: 1329-1330.

Please find the compiled replies below.

Warmest, Florian Florian M. Steiner Molecular Ecology Group, Institute of Ecology University of Innsbruck, Technikerstr. 25, A-6020 Innsbruck, Austria Phone ++43-512-507-6120, Fax ++43-512-507-6190 http://www.uibk.ac.at/ecology/forschung/-molecular_ecology.html Compiled replies in the order received: ### Google retrieved this article by McIntyre. http://www.jstor.org/pss/2406777 Hope thats what you're looking for. Vikram

I used it in the 1970's but I'm traveling between Bangkok and San Francisco today so it will be a day or two before I can check my date. I used in connection with hybrid zones and species definitions perhaps in the context of the land snail Cerion. I don't think I ever claimed to have coined the phrase. To be continued David

I'm afraid that I don't know, but if you do find out who it was, I would appreciate your letting me know as well! Thanks, Melissa

I believe it was A.J. Cain. See: Thomas Uzzell and N. Philip Ashmore. Suture-Zones: An Alternative View Syst Biol (1970) 19(2): 197-199 doi:10.2307/2412459

The phrase (which refers to clines) comes from a review of John Endler's 1977 book by David Woodruff (1978. Review: Mechanisms of Speciation. Science 199: 1329-1330.) Erik

Google's your friend. Thomas Uzzell and N. Philip Ashmole (Systematic Zoology Vol. 19, No. 2, Jun., 1970) attributed it to A.J. Cain.

Hello, I don't know if this is the right paper. I did a quick google search gave me this paper from 1967. (see attached) Foramen Pseudovale and Quasi-

Mammals www.jstor.org/stable/2406777 by GT MacIntyre - 1967 - Cited by 31 - Related articles a taxonomist's nightmare when compared to the classic categories of Reptilia and. Mammalia. Contrariwise, they are an evolutionist's delight because they have .. Sheila

Check this out. It appears to be attributed to A.J. Cain. Best, Paul

It sounds like A. J. Cain (of Cain and Sheppard). If you go to an old paper in Systematic Zoology, vol. 19, No. 2, June 1970, the Points of View section, you will find a short comm by Uzzell and Ashmole, in which they point out that A. J. Cain once told them that "the taxonomist's nightmare is the evolutionist's delight." This may lead to the answer.

Woodruff DS 1978. Mechanisms of speciation. Science 199: 1329-1330. [last sentence] I subsequently used a paraphrase in the Abstract of a 1980 paper on the land snail Cerion [Biol J Linn Soc] Macintyre's usage was spead out over two sentences on [p. 835] and was unknown to me. David

###

birgit.florian@gmail.com

qPCR Normalization

Hi Dearcolleagues,

I am going to do qPCR in sturgeons. I have tested several reference genes to obtain a stable housekeeping gene for normalization. Unfortunately, there is not any stability. I am going to do normalization against quantification cDNA. Would you please advise me, which methods is suitable for cDNA quantification. I would beappreciated if I receiving your answers.

Kind regardsMahtab

mahtab yarmohammadi <mahtab_yarmohammadi@yahoo.com>

Rohlf Medal Lecture Dinner

ROHLF MEDAL FOR EXCELLENCE IN MORPHOMETRIC METHODS AND APPLICATIONS

The Rohlf Medal was established in 2006 to mark the 70th birthday of F. James Rohlf, longtime Stony Brook University faculty member. Recipients of the Medal are recognized for their body of work in morphometrics. Please go to life.bio.sunysb.edu/ee/people/rohlfdinner for further information.

Please join us on October 24, 2011 for the presentation of the first Rohlf Medal to Fred L. Bookstein, Professor of Statistics, University of Washington and Universitätsprofessor of Morphometrics, Department of Anthropology, University of Vienna and to celebrate the career of Prof. F. James Rohlf, John S. Toll Professor of Ecology and Evolution, Stony Brook University.

4:30 pm -" Presentation of the Rohlf Medal and Provost Lecture by Fred L. Bookstein: -Biology and Mathematical Imagination: the Meaning of Morphometrics.- Charles B. Wang Center, Lecture Hall. (Lecture open to the public.)

6:00 pm -" Rohlf Medal Dinner and Celebration, Charles B. Wang Center, Zodiac Gallery. $60.00 per person for the dinner only. Please register by October 14, 2011 at: http://naples.cc.sunysb.edu/Pres/-confsecct.nsf/rohlf . Michael A. Bell, Professor Department of Ecology and Evolution Stony Brook University Stony Brook, NY 11794-5245, USA Office Phone: 1-631-632-8574 http://life.bio.sunysb.edu/ee/belllab/ mabell@life.bio.sunysb.edu

UManchester Phylogenomics

We seek a high calibre current PhD student for an internship with a duration of 6 months (or longer, by mutual agreement), supervised jointly between the School of Mathematics and the Faculty of Life Sciences at the University of Manchester. The internship, beginning in January 2012 or earlier, is paid at £300 gross per week and is open to all current PhD students from the UK and EU.

A PhD internship involves a current student taking time off their studies to work on a short, focused project which broadens their research experience. This post is a collaboration between Dr John Moriarty in Mathematics and Dr Chris Knight in Life Sciences (Computational and Evolutionary Biology Research Group). The successful intern will apply the methods presented in Jones and Moriarty, 'Evolutionary Inference for Functional Data: Using Gaussian Processes on Phylogenies to Study Shape Evolution' (arXiv:1004.4668v1) and

recently discussed in the opinion piece 'Phylogenetic inference for function valued traits: speech sound evolution' (Trends in Ecology and Evolution, in press) to systematically compare evolutionary data obtained in Dr Knight's group. The goal is to make statistical inference about the evolution of protein physical properties across thirteen yeast species. Strong computational skills in R, MATLAB or a related language are required; additionally, strong mathematical skills and an interest in evolutionary biology would be desirable.

The School of Mathematics is the largest unified mathematics School in the UK, with approximately 80 academic staff. It is located in the purpose-designed Alan Turing Building, situated centrally on campus. Computational and Evolutionary Biology is a department-sized group within Manchester's unified Faculty of Life Sciences, which the research assessment exercise put among the top three in the country for Biological Sciences.

Informal enquiries may be made by 30th November to John Moriarty: john.moriarty@manchester.ac.uk +44 (0)161 2755883 or Chris Knight: chris.knight@manchester.ac.uk +44 (0)161 2755378.

Dr Christopher Knight Michael Smith Building Wellcome Trust RCD Fellow Faculty of Life Sciences Tel: +44 (0)161 2755378 The University of Manchester room B.2012 Oxford Road tinyurl.com/knightLab/ Manchester M13 9PT UK

Videos Conference EvolutionaryRescue

In June 2011 a conference on Evolutionary Rescue was organized in Montpellier with the support of the French Ecological Society.The aim of this conference was to synthesize recent advances improving our understanding of the role of evolutionary mechanisms in species responses to global change.

The video of this conference will be realeased online on our website during the month of october 2011 (one topic every week). The video are open to comments and we hope you will participate to this very original experience of ≪ virtual ≫ conference by posting your questions. The authors will try to respond online, this is a unique opportunity to bring the scientific discussion beyong the limit of a one day conference !

The first topic ("A race between decline and extinction") can be viewed here :

http://www.sfecologie.org/blog/2011/09/30/-evolrescueonline-topic-1/ Please forward this email to anyone interested by the experience.

Ophélie Ronce <ophelie.ronce@univ-montp2.fr>

Videos Conference EvolutionaryRescue 2

In June 2011 a conference on Evolutionary Rescue was organized in Montpellier with the support of the French Ecological Society.The aim of this conference was to synthesize recent advances improving our understanding of the role of evolutionary mechanisms in species responses to global change. The second topic : "Migration, plasticity and adaptation" is now online with talks by : Mark Kirkpatrick (University of Texas, USA) Andrew Gonzalez (McGill University, Canada) Frank Schurr (Potsdam University, Germany) & Katja Schiffers (LECA France) http://www.sfecologie.org/blog/-2011/10/12/evolrescueonline-topic-2/ The first topic "A race between decline and extinction" is still online with talks by : Richard Gomulkiewicz (Washington State University, USA) Graham Bell (McGill University, Canada) Anne Charmantier & Olivier Gimenez (CEFE, France) http://www.sfecologie.org/-blog/2011/09/30/evolrescueonline-topic-1/ The video are open to comments and we hope you will participate to this very original experience of ≪ virtual ≫ conference by posting your questions. The authors will try to respond online, this is a unique opportunity to bring the scientific discussion beyong the limit of a one day conference !

Ophélie Ronce, Fadela Tamoune et Nicolas Mouquet

Ophélie Ronce <ophelie.ronce@univ-montp2.fr>

Videos Conference EvolutionaryRescue 3

Subject : Evolrescue online Topic #3 : Evolving communities in changing environments

Text :

Dear all, Cher tous,

In June 2011 a conference on Evolutionary Rescue was organized in Montpellier with the support of the French Ecological Society.The aim of this conference was to synthesize recent advances improving our understanding of the role of evolutionary mechanisms in species responses to global change.

The third topic : Evolving communities in changing environments is now online with talks by :

Robert Holt (University of Florida, USA) RÃ©gis FerriÃre (ENS, France) Gregor Fussmann (McGill University, Canada)

http://www.sfecologie.org/blog/2011/10/20/-evolrescueonline-topic-3/ The first topic A race between decline and extinction is still online with talks by :

Richard Gomulkiewicz (Washington State University, USA) Graham Bell (McGill University, Canada) Anne Charmantier & Olivier Gimenez (CEFE, France)

http://www.sfecologie.org/blog/2011/09/30/-evolrescueonline-topic-1/ The second topic : Migration, plasticity and adaptation is still online with talks by :

Mark Kirkpatrick (University of Texas, USA) Andrew Gonzalez (McGill University, Canada) Frank Schurr (Potsdam University, Germany) & Katja Schiffers (LECA France)

http://www.sfecologie.org/blog/2011/10/12/-evolrescueonline-topic-2/ The video are open to comments and we hope you will participate to this very original experience of Â≪ virtual Â≫ conference by posting your questions. The authors will try to respond online, this is a unique opportunity to bring the scientific discussion beyong the limit of a one day conference !

Please forward this email to anyone interested by the experience.

Cordialement, all the best !

Les organisateurs OphÃ©lie Ronce, Fadela Tamoune et Nicolas Mouquet

With the help of : ANR, CEFE, CFI, CNRS, CRC, EVORANGE, ISEM, NSERC-CRSNG, RÃ©gion LR, SFE, SFR MEB, UM2

Nicolas Mouquet

Evolutionary Community Ecology Institut des Sciences de lâEvolution - CNRS UMR 5554 - UniversitÃ© de Montpellier II - CC 065 34095 MONTPELLIER Cedex 05

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personal web site : http://nicolasmouquet.free.fr/- group web site : http://www.eec.univ-montp2.fr/
Nicolas Mouquet <nmouquet@univ-montp2.fr>

PostDocs

Berlin Bioinformatics Metagenomics

Post-doc - Metagenomics / Bioinformatics in Freshwater Biodiversity

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB)(www.igb-berlin.de) in Berlin, Germany invites applications for a post-doctoral researcher in the field of metagenomics, metatranscriptomics, and/or bioinformatics. The successful candidate will work on a large collaborative project between IGB (Martin Allgaier, Hans-Peter Grossart, Michael T Monaghan) and Argonne National Laboratory (Jack Gilbert) researching microbial biodiversity in freshwaters. The post-doc has considerable freedom to develop their own research direction(s) within the project. The successful candidate would be based at the newly formed Berlin Center for Genomics in Biodiversity Research, with state-of-the art NGS and computational facilities, located in the Botanical Museum (bgbm.de) on the campus of the Freie Universitaet Berlin (www.fu-berlin.de).

The position requires a PhD in biology, informatics, or a related field; and experience with analysis of metagenomic or similar data. The ideal candidate would have experience using bioinformatic pipelines or perl/python scripts to analyse large NGS data sets. The working language is english.

Berlin is the most dynamic, least inexpensive, and arguably the liveliest European capital, offering an abundance of social and cultural activities. (As our former mayor once famously said, Berlin is “poor but sexy”). For more information see http://www.visitberlin.de/en

The position is available immediately and is funded for two years, with the possibility for extension. In keeping with the IGB’s policy regarding gender equity, female applicants are particularly encouraged. Disabled people with identical qualifications will be favoured. Please contact Michael T Monaghan (monaghan@igb-berlin.de) for more information and for details on the application procedure.

Michael Monaghan <monaghan@igb-berlin.de>

BrownU AdaptationMechanisms

SEEKING POSTDOC INTERESTED IN APPLYING METHODS OF PROTEIN BIOLOGY TO UNDERSTAND THE MOLECULAR MECHANISMS OF ADAPTATION.

An NIH-funded position with Dr. Daniel Weinreich at Brown University is available immediately to dissect the mechanistic determinants of antibiotic resistance mutations in TEM-1 beta-lactamase alleles. This system is well-suited to the broader question because the enzyme is soluble and apparently operates ’atomically’ in the periplasm (i.e. independently of any other enzymes).

The ideal candidate will take substantial ownership of all phases of the project, and thus must - have a PhD and bench experience in relevant methods; - be intellectually curious, mature, creative, highly motivated and comfortable with quantitative reasoning.

Importantly, while initial funding is for work on beta-lactamase, individuals with related research systems are

strongly encouraged to apply.

The Weinreich lab is broadly interested in how genetic novelty fuels evolution by natural selection. Using tools from computer science and mathematics we model the evolutionary consequences of epistasis (functional interactions) within the genome. This motivates complementary experimental work using techniques of molecular biology, microbiology and protein biology to measure patterns and causes of epistasis within genes and genomes of bacteria and bacteriophage. This experimental work in turn drives novel theory. See http://research.brown.edu/myresearch/Daniel_Weinreich for further details on current work in the lab.

Professor Weinreich is an assistant professor in the Department of Ecology and Evolutionary Biology (http://www.brown.edu/Departments/EEB/) and the Center for Computational and Molecular Biology (http://www.brown.edu/Research/CCMB/).

Brown University is an intellectually vital university with ample opportunities for collaboration across departments. It is located in Providence, Rhode Island, one of the oldest cities in the United States and now an exciting and eclectic mix of communities with beautiful architecture, a diverse nightlife and ready access to Newport, Boston and New York City as well as to Block Island, Cape Cod and the mountains of northern New England.

Interested individuals should email their CV, representative publications and the names of three references directly to Dr. Weinreich (weinreich at brown dot edu).

Daniel M. Weinreich, Assistant Professor Department of Ecology and Evolutionary Biology, and Center for Computational Molecular Biology Office: 300 Walter Hall, 80 Waterman Street Lab: Sydney Frank Hall/LSB 157, 60 Olive Street Brown University, Providence, RI 02912 Office phone: 401/863-3937 lab 3-2749 fax 3-2166 http://research.brown.edu/myresearch/Daniel_Weinreich daniel_weinreich@brown.edu

CNRS ULille EvolutionaryGenomics

A two-years postdoctoral position is available at the plant population genetics and evolution laboratory (GEPV, CNRS-Université Lille 1) in Lille, France. The candidate will develop a project on the evolution and diversity of small non-coding RNAs controlling dominance/recessivity in sporophytic self-incompatibility in Arabidopsis species.

Dominance/recessivity is one of the most basic properties of inheritance mechanisms, yet its genetic basis and evolution have been among the most highly debated topics in evolutionary genetics (reviewed in Billiard & Castric 2011). A recent study of the self-incompatibility locus in flowering plants provided empirical evidence that small non-coding RNAs control dominance–recessivity by mediating methylation of the promoter of the recessive allele. On the basis of this functional model, we investigate the patterns of molecular evolution and level of functional constraint on the small non-coding RNAs present at the self-incompatibility locus, as well as the patterns of co-evolution between the small RNAs themselves and their putative targets in closely related Arabidopsis species. The successful applicant should have a Ph.D. in biology or a related discipline (e.g. bioinformatics) with experience in evolutionary genomics and/or molecular biology. The ability to manage large experimental designs for phenotypic analysis, including plant controlled crosses wil be an asset. Fluency in English is also appreciated.

The postdoc will join a young and interactive research group focusing on the ecology, evolution and genomics of self-incompatibility, including theoreticians and experimentalists. The group has recently been awarded a ≪ Young investigator ≫ grant from ANR (ANR Jeunes Chercheurs). Lille is a vibrant cultural city with a central location in Europe, just 35 minutes from Bruxelles, 58 minutes from Paris and 2h15 from London by TGV. More information about the group is available on the web at: http://gepv.univ-lille1.fr/ and about the city of Lille at : http://www.lilletourism.com/visite_360.php?lg=-fr&nav_typ=1 . Candidates from all countries are eligible. Monthly salary is 2,500 euros. Applications will be considered until the position is filled, ideally at the begining of 2012. To apply, email your CV (including a publication list), a brief statement of research interests, and arrange to have two emails of recommendation sent directly to both Sylvain.Billiard@univ-lille1.fr and Vincent.Castric@univ-lille1.fr. Please email questions regarding the position to either of us.

Vincent Castric & Sylvain Billiard

Billiard S & Castric V. 2011. Evidence for Fisher's dominance theory: how many 'special cases'? Trends in Genetics 27(11) :441-445.

– Vincent CASTRIC CR1 CNRS, HDR.

UMR 8016 Laboratoire de Genetique et Evolution des Populations Vegetales CNRS - Universite de Lille 1

Batiment SN2, bureau 108 59655 Villeneuve d'Ascq - FRANCE Tel: +33 3 2033 5923 - Fax: +33 3 2043 6979 http://gepv.univ-lille1.fr/ Vincent.Castric@univ-lille1.fr

CornellU 2 DrosophilaBacteria

Two postdoctoral positions are available in Brian Lazzaro's lab at Cornell University to study the evolutionary and functional genetics of Drosophila interactions with opportunistically infectious bacteria. The first position is to conduct mechanistic study of the genetic mechanisms linking metabolism and immunity in Drosophila. The second position is in comparative and functional bacterial genetics as it relates to infection of the Drosophila host. Anticipated start date on both positions is Fall 2012, but this is negotiable. Salary is to be paid on the standard NIH postdoctoral scale.

Both positions are part of growing in interest in my lab to figuring out how host and pathogen genetics combine with environmental contributions to modulate the dynamics of bacterial infection in Drosophila. Our ultimate goals are to gain insight into the mechanistic basis for GxE in the Drosophila host, mechanisms of host-pathogen GxG (and GxGxE), and the evolutionary consequences of these interactions. Opportunity exists to work on any of several experiments, or potentially on a project of the postdoc's own devising, depending on the skills and interests of the person filling each post.

POSITION 1: Genetic Mechanisms Linking Metabolism and Immunity. Dietary nutrition can have strong impact on the ability of insects to resist infection. Drosophila show diet-dependent alteration in the ability to tolerate and resist bacterial infection, but the mechanistic linkages between dietary nutrition and immune defense are largely unknown. The candidate hired into this position would be responsible for designing and executing genetic experiments aimed at elucidating crosstalk between metabolic and immune pathways, and for determining how nutritional intake might influence overall defense against infection. Ideal applicants will have experience in Drosophila functional genetics and/or in insect metabolism and physiology and an interest in the evolutionary consequences of physiological pleiotropy.

POSITION 2: Comparative and Functional Bacterial Genomics Our laboratory experiments emphasize several bacterial species that were originally isolated as infections of field-captured Drosophila. These strains and species vary widely in their pathology and virulence to experimentally infected Drosophila, as well as in other basic characteristics. I am seeking a postdoctoral scientist with experience in bacterial comparative genomics and functional bacterial genetics to lead experiments exploring how opportunistic infections become established in insect hosts. This work will ideally extend deeper than classical virulence mechanisms and host immune responses, and will include physiological interactions between the host and microbe. One ultimate objective is to establish the biology that underlies host-genotype by pathogen-genotype interactions. Microbial taxa of particular interest include Serratia marcescens, various species of Providencia, and Enterococcus faecalis, but work on other microbes is also possible.

Candidates interested in either position should email a CV and brief statement of research background and interests to Brian Lazzaro at bplazzaro@cornell.edu. Interested and qualified candidates may contact me at the same address for more information about either position.

Brian P. Lazzaro, Ph.D. Associate Professor, Insect Genomics Director of Graduate Studies, Entomology Department of Entomology 3134 Comstock Hall Cornell University Ithaca, NY 14853 USA

tel: 607-255-3254 fax: 607-255-0939 http://www.lazzaro.entomology.cornell.edu bplazzaro@gmail.com

EmoryU Bioinformatics

The Taylor Lab (http://bx.mathcs.emory.edu/) in the Biology and Mathematics & Computer Science departments at Emory University is currently recruiting postdoctoral scholars with expertise in Bioinformatics and Computational Biology. The lab currently has research interests a number of areas:

* The Galaxy Project (http://galaxyproject.org), which builds software and infrastructure to make computational biology more accessible to experimentalists. Research foci include both the development of analysis and data management tools, and the development of novel user interfaces and interactive visualizations for analyzing large-scale data.

* Distributed and high-performance computing for data

intensive science, specifically genomics.

* Vertebrate functional genomics, particularly through the development of novel machine learning, data mining, and data integration methods incorporating genomic sequence and experimental data.

* Genomics and Epigenomic mechanisms of Gene regulation, the role of transcription factors and chromatin structure in global gene expression, development, and differentiation.

We are seeking post-docs with complementary research interests. Well developed research plans that complement but extend the lab's current interests will be looked upon favorably. Specific area of academic background is flexible. Our group is located in the Biology Department; however because our work is largely computational, programming / software development experience is important.

Applicants should submit a CV, a statement of research interests or research plan, and a few references to james.taylor@emory.edu.

– http://galaxyproject.org/ http://getgalaxy.org/ http://usegalaxy.org/ http://galaxyproject.org/wiki/ Dave Clements <clements@galaxyproject.org>

Frankfurt PopulationGenomics

The Biodiversity and Climate Research Centre (BiK-F) is a interdisciplinary institute with the mission to carry out internationally outstanding research on the interactions of biodiversity and climate change on the organism level. It has been founded by the Senckenberg Gesellschaft für Naturforschung, the Goethe-University Frankfurt am Main, and other partners. The Centre is funded by the Federal State of Hesse through its Initiative for the Development of Scientific and Economic Excellence (LOEWE). It provides a new, dynamic research environment that integrates a variety of disciplines from both natural and social sciences. The Project Area D âLaboratory Centreâ (Molecular Ecology Laboratory; headed by Markus Pfenninger) invites applications for the position of a

Postdoctoral researcher in âPopulation Genomicsâ Project D1.1 [Ref. #D27a]

The applicant is expected to carry out cutting edge research in the field of population genomics with the model organisms (land- , freshwater snails, non-biting midges) of the group. Central aim is the identification of genes involved in the local adaptation to different climate regimes. Participation in university teaching is possible, while the acquisition of external research funding is highly desired.

The applicant should hold an earned Ph.D. in biology, with a strong background in population genetics, evolutionary ecology and/or genomics. She or he should already have experience with large data sets and should be interested in linking evolutionary and climate change issues. Practical experience in molecular work is desired. Applicants should have a strong publication record. Very good written and oral English language skills, willingness to learn at least basic German and interest in joining a exciting multidisciplinary research team are required, as well as proven organizing abilities.

Salary and benefits are according to a public service position in Germany (TV-H E13). The Research Centre BiK-F advocates gender equality. Women and men are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference.

The contract shall start 1th of January 2012 and will be restricted to 24 months. Review of the application starts on November 1st 2011 and will continue until the position is filled. The duty station will be Frankfurt am Main, Germany.

Please send your application by post or preferably e-mail, including a detailed CV, 3 reference contacts, a list of publications and up to five selected re/e-prints before October, 31st 2011 to Prof. Dr. Dr. h.c. V. Mosbrugger, Scientific Coordinator Biodiversity and Climate Research Centre, Senckenberganlage 25, D-60325 Frankfurt am Main, Germany. E-mail to Service & Administration: recruiting@senckenberg.de.

For scientific enquiries about the position please contact Prof. Dr. M. Pfenninger

pfenninger@bio.uni-frankfurt.de

Frankfurt Population Genomics

The Biodiversity and Climate Research Centre (BiK-F) is a interdisciplinary institute with the mission to carry out internationally outstanding research on the interactions of biodiversity and climate change on the organism level. It has been founded by the Senckenberg Gesellschaft für Naturforschung, the Goethe-University

Frankfurt am Main, and other partners. The Centre is funded by the Federal State of Hesse through its Initiative for the Development of Scientific and Economic Excellence (LOEWE). It provides a new, dynamic research environment that integrates a variety of disciplines from both natural and social sciences. The Project Area D âLaboratory Centreâ (Molecular Ecology Laboratory; headed by Markus Pfenninger) invites applications for the position of a

Postdoctoral researcher in âPopulation Genomicsâ Project D1.1 [Ref. #D27a]

The applicant is expected to carry out cutting edge research in the field of population genomics with the model organisms (land- , freshwater snails, non-biting midges) of the group. Central aim is the identification of genes involved in the local adaptation to different climate regimes. Participation in university teaching is possible, while the acquisition of external research funding is highly desired. The applicant should hold an earned Ph.D. in biology, with a strong background in population genetics, evolutionary ecology and/or genomics. She or he should already have experience with large data sets and should be interested in linking evolutionary and climate change issues. Practical experience in molecular work is desired. Applicants should have a strong publication record. Very good written and oral English language skills, willingness to learn at least basic German and interest in joining a multidisciplinary research team are required, as well as proven organizing abilities.

Salary and benefits are according to a public service position in Germany (TV-H E13). The Research Centre BiK-F advocates gender equality. Women and men are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference.

The contract shall start 1th of January 2012 and will be restricted to 24 months. Review of the application starts on November 1st 2011 and will continue until the position is filled. The duty station will be Frankfurt am Main, Germany.

Please send your application by mail or preferably e-mail, including a detailed CV, 3 reference contacts, a list of publications and up to five selected re/e-prints before October, 31st 2011 to Prof. Dr. Dr. h.c. V. Mosbrugger, Scientific Coordinator Biodiversity and Climate Research Centre, Senckenberganlage 25, D-60325 Frankfurt am Main, Germany. E-mail to Service and Administration: recruiting@senckenberg.de.

For enquiries about the position contact Prof. Dr. M. Pfenninger (E-mail: pfenninger@bio.uni-frankfurt.de).

– Prof. Dr. Markus Pfenninger Forschungszentrum Biodiversität& Klima Molekulare Ãkologie Gruppe Gebäude A BioCampus Siesmayerstraße D 60054 Frankfurt am Main Germany

Tel.: ++ 49 69 798 24714 Fax : ++ 49 69 798 24910 eMail: Pfenninger@bio.uni-frankfurt.de http://-/user.uni-frankfurt.de/~markusp pfenninger@bio.uni-frankfurt.de

GoettingenU AmphipodSymbiosis

The $B!H(BGeomicrobiology and Symbiosis$B!I(B research group in the Courant Research Centre (CRC) for Geobiology, University of Goettingen, Germany, invites applications for a postdoctoral position to study the ecology and evolution of gut symbioses in groundwater amphipods.

Niphargus is a diverse genus of primarily subterranean amphipods distributed across most of Europe, and some species live in sulfidic caves, such as Frasassi caves (Italy) and Movile cave (Romania). Unlike most subterranean ecosystems that are fed by aboveground photosynthetic input, Frasassi and Movile caves are supported by chemoautotrophic microbial productivity. Three Niphargus species are found in Frasassi (Flot et al., BMC Evolutionary Biology 2010, 10:171), and preliminary analyses suggest that they all harbor gut symbionts, some of which are closely related to gut microbes of shrimps living at sulfidic deep-sea hydrothermal vents! The postdoctoral project will examine the ecology and evolution of Niphargus gut symbionts, using samples collected from Frasassi and other sulfidic and non-sulfidic groundwaters across Europe. Topics such as (but not limited to) the potential role of gut symbionts in invasion of sulfidic ecosystems, and possible host-symbiont co-evolution will be addressed.

Goettingen is a quaint German university town with an international student-based community. The CRC Geobiology, funded through the German Excellence Initiative, offers state-of-the-art facilities and an excellent environment for interdisciplinary research. The successful candidate will join a small but growing group (http://www.uni-goettingen.de/-en/102704.html) established in August 2008.

A PhD degree in Biology, a strong background in molecular biology and phylogenetic analyses, and fluency in English are required. Previous fieldwork experience is desired. The position is funded through the German

Excellence Initiative, and salary is based on the German TVL-13 scale. Initially, a one-year contract starting on March 1, 2012 will be offered. Based on satisfactory performance of the selected candidate, the contract may be extended until July 31, 2014. The University of Goettingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in this field. Disabled persons with equivalent aptitude will be favored.

Applications should be sent to Dr. Sharmishtha Dattagupta (sdattag@uni-goettingen.de) by November 31, 2011, and include a curriculum vita, copies of one or two recent publications, a statement of research interest (or letter of motivation), and contact information of two referees. Informal inquiries are welcome.

Sharmishtha Dattagupta <sdattag@uni-goettingen.de>

HarvardU Bioinformatics

POSTDOCTORAL POSITION IN BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

The Lemos laboratory at Harvard University is searching for a postdoctoral fellow in bioinformatics / computational biology interested in pursuing research in epigenomics, population genomics, genotype-environment interaction, and the architecture of complex diseases. The fellow should be interested in working with computational data analysis, and be motivated by research that combines careful genetics and extensive computational and statistical analyses of genome-wide data from a variety of experimental sources.

The Lemos laboratory is housed at the Harvard School of Public Health located within a vibrant research community that also comprises the Harvard Medical School, and several affiliated hospitals. The school has significant strengths in computational biology, biostatistics, genomics, and engineering that will be all within close reach of the fellow. Applicants must be extremely curious and motivated by science, be genuinely enthusiastic, and have the ability to work independently within a collegial and collaborative team. Applicants should expect a fun and creative research environment in which I can provide plenty of individual mentoring and support to develop your own interests and ideas.

Applicants must have a PhD at the time of the appointment and have a strong analytical background with proficiency in one or more programming languages.

Applications should be sent to blemos@hsph.harvard.edu. Please send a cover letter describing your research interests and experience, a C.V. and contact information for three references. Review of applications will start on November 15th, and will continue until the position is filled.

Informal enquires of interested candidates with other backgrounds are also welcome.

Bernardo Lemos Assistant Professor Harvard School of Public Health http://www.hsph.harvard.edu/faculty/-bernardo-lemos/ blemos@hsph.harvard.edu

blemos@oeb.harvard.edu

HarveyMuddC EvolBiol

The post-doc advertised below is a great opportunity for someone with an interest in both teaching and research. The area of the search is open; evolutionary biologists are strongly encouraged to apply.

The Harvey Mudd College Biology Department invites applications for a Teaching & Research Postdoctoral Fellowship in Biology to commence in the fall semester of 2012. The successful candidate will have the potential for excellence in teaching and have a strong and ongoing research program. The fellow will teach one course per semester and supervise undergraduate research. Candidates from all areas of biology are encouraged to apply. Experience with or demonstrated ability to effectively teach students from diverse backgrounds will be considered among the criteria for appointment. Harvey Mudd College is a highly selective undergraduate institution of science, engineering and mathematics, located 30 miles east of downtown Los Angeles. Further information may be found at http://www.hmc.edu/bio . Applicants should submit; a single page cover letter, a three page CV, a single page description of their current research program, a single page teaching statement and the names of three referees. Candidates are also encouraged to include a single page statement about their personal efforts working in and promoting diverse academic environments. The cover letter should address how their research interests and teaching philosophy complement or match the existing strengths in the

department. All application materials should be sent as PDF files to https://academicjobsonline.org/ajo/-jobs/1114. Review of applications will begin November 15, 2011. For further information contact: Associate Professor Robert A. Drewell (drewell@hmc.edu), Chair, HHMI Postdoctoral Fellowship Search Committee.

Harvey Mudd College is an affirmative action and equal opportunity employer and is committed to the recruitment of candidates historically underrepresented on college faculties.

Daniel Stoebel Assistant Professor of Biology Harvey Mudd College 301 Platt Blvd. Claremont, CA 91711 USA

909.607.1141

Daniel_Stoebel@hmc.edu

ImperialCollege London ComputationalSystemsBiol

Research Associate In Computational Systems Biology*

Department of Computing

Fixed Term for up to 3 years

Preferred start date 1^st January 2012

Salary: 31,300 - 39,920 per annum

The Department of Computing is one of the leading departments of Computer Science in the world. In the UK, it has consistently been awarded the highest research rating (5*) in Research Assessment Exercises (RAE), coming 2nd in the UK 2008 RAE, and was rated as "Excellent" in the previous national assessment of teaching quality. In the 2010 Times Higher Education, it is ranked as the 9^th best in the world.

An exciting opportunity has arisen for a Research Associate (post-doctoral) for the prestigious European Research Council Starting Grant funded project on analysis of biological networks. The purpose of the project is to develop and apply sophisticated graph theoretic algorithms and models carefully tuned to extract biological knowledge from topologies of real-world biological networks, including protein-protein interaction, metabolic, transcriptional regulation, and disease association networks. The aim is to mine biological network data for new biological insight that would complement the knowledge that can be obtained from mining genetic sequence data. The developed graph theoretic tools will further be applied to other network domains including economic, social, and computer networks.

The successful applicant will be responsible for developing new graph theoretic models and algorithms for some of the foremost problems in computational systems biology, including network alignment and network integration of various types of data.You will design and implement the models and algorithms, apply them to real-world biological network (and other domain) data from public and private sources, statistically analyze the results, write research papers, present the work at international conferences, and contribute to updating our open source software package, GraphCrunch, with the new methods.

To apply you will have a PhD (or equivalent) in Computer Science, Engineering, Mathematics, Physics, Bioinformatics, or a related discipline. You should have a proven knowledge and track record in several of the following areas: graph and complexity theory, algorithms, bioinformatics, programming in C, C++, a scripting language and Matlab, using a parallel computing environment, scientific computing, data analysis, statistics and machine learning.

Preference will be given to applicants with a proven research record and publications in relevant areas.All applicants must be fluent in English.

You will be part of the Computational Systems Biology Research Group, in the Computing Department and based at the South Kensington campus. For further information on the group and related projects see: http://www.doc.ic.ac.uk/~natasha/

How to apply:

Our preferred method of application is online via our website at: http://www3.imperial.ac.uk/employment (please select job search then enter the job title or vacancy reference number *EN2011XXXBD* into keywords).Please complete and upload an application form as directed.

Applications must include the following:

* A college application form - quoting reference number *NP 10 11* on the form * A full CV including: University degrees and dates, past and present posts and list of publications. * A 2-page statement indicating what you see are interesting research issues relating to the above post and why your expertise is relevant.

For queries regarding the application process contact Joanne Day by email to research.officer@doc.ic.ac.uk

Closing date for applications: November 7, 2011

/Committed to equality and valuing diversity.We are also an Athena Silver SWAN Award winner and a Stonewall Diversity Champion.

Natasa Przulj <n.przulj@imperial.ac.uk>

Lyon
BacterialComparativeGenomics

A 24 months post-doctoral position is available to work on the comparative genomics of piezophilic microorganisms, i.e. bacteria and archaea adapted to high pressure such as those living next to deep-sea hydrothermal vents, at the LBBE (Biometry and Evolutionary Biology lab) of the university of Lyon, France (http://-/lbbe.univ-lyon1.fr/?lang=en).

The successful candidate should have a PhD in a field closely related to Bioinformatics and Comparative Genomics, have a strong background in Phylogenetics, Molecular Evolution and Statistics and good programming skills. Some knowledge of structural biology would be a plus. He/she will have to interact with microbiologists and biochemists in the context of a larger project funded by the ANR (National Research Agency) in collaboration with labs in Lyon, Grenoble and Brest, France. The aim of this project is to understand the genetic basis of life at high pressure.

The work will be conducted by Vincent Daubin from the Bioinformatics and Evolutionary Genomics Group and Laurent Gueguen, from the Baobab group.

The BBE lab offers a highly stimulating scientific environment, and Lyon is a beautiful, history rich, lively city. Net salary is around 2000 per month.

Please send a CV, motivation letter and the names of two referees to Vincent Daubin (vincent.daubin@univ-lyon1.fr) and Laurent Gueguen (laurent.gueguen@univ-lyon1.fr).

Keywords: Phylogenetics, comparative genomics, models of sequence evolution, biochemistry

Vincent Daubin <vincent.daubin@univ-lyon1.fr>

Marseille
DrosophilaPigmentationEvolution

Post-doctoral Position: Evolution and Development of Drosophila Pigmentation VMarseille, FranceV

A postdoctoral position funded for 3 years by the French National Research Agency (ANR) is available in the lab jointly headed by Nicolas Gompel and Benjamin Prudhomme at the IBDML, in Marseille (France).

The lab is interested in understanding the genetic and molecular mechanisms underlying the evolution of morphological traits. Developmental genetics studies have shown that the formation of any given trait is governed by gene regulatory networks (GRNs), and in turn, that morphological changes can result from changes in the interactions among the components of the GRNs. In this frame, we want to understand how are changes leading to a morphological novelty distributed in GRN and how do new regulatory functions evolve.

To address these questions were using the wing pigmentation patterns that have evolved and diversified among Drosophila species. Were using functional approaches in multiple Drosophila species to reconstruct the GRN responsible for the formation of wing pigmentation patterns.

The project will involve ChIP-seq experiments on pupal wings to identify the target sequences of a transcription factor that has evolved novel target genes and plays a key role in the formation of wing pigmentation pattern and the functional characterization of these target sequences in an evolutionary perspective.

Other lines of research pertaining to our system, such as the characterization of functionally distinct cis-regulatory elements, can also be discussed and suggestions are welcome.

Applicants will have a background in either developmental biology and/or evolutionary biology and a strong interest to tackle mechanistic questions. A training in molecular biology is required and a training in computational biology to analyze high-throughput sequencing data is definitively a plus. Experience with Drosophila is not necessarily required but is obviously welcome.

Application should include a CV, a brief statement of interest (why do you want to join our

lab specifically), and contact information for three references. Applications and any questions should be directed to nicolas.gompel@univmed.fr and benjamin.prudhomme@univmed.fr.

For more information about our lab and our institute please visit our websites: http://-www.ibdml.univ-mrs.fr/equipes/BP_NG/index.html http://www.ibdm.univ-mrs.fr/index_gb.php Benjamin Prud'homme

IBDML, CNRS UMR 6216, case 907, Parc scientifique de Luminy 13288 Marseille cedex 9, France Office: + 33 4 91 26 92 06 Fax + 33 4 91 26 97 26

benjamin.prudhomme@univmed.fr

Lab website IBDML website

benjamin prud'homme <benjamin.prudhomme@univmed.fr>

MaxPlanckInst Leipzig HumanEvolution

TITLE: *Post-Doctoral Position in Physical Anthropology*

The */Department of Human Evolution/* of the Max Planck Institute for Evolutionary Anthropology, Leipzig (Germany) invites applications for a post-doctoral position in Physical Anthropology. In the department, palaeoanthropological research is conducted within a multidisciplinary environment involving three main groups of scientists: biological anthropologists, Palaeolithic archeologists, and archaeological scientists/geochronologists. More information about the Department of Human Evolution may be found at http://www.eva.mpg.de/evolution. The position is a research post. We expect the successful candidate to work closely with Professor Jean-Jacques Hublin on the analysis of the */Middle to Late Pleistocene cranio-dental fossil record. /*The selected candidate will have a Ph.D. and a significant trackrecord of research. The initial length of the appointment is two years but the contract is extendable. For further information please contact Professor Jean-Jacques Hublin (hublin@eva.mpg.de). Applications, including cover letter, curriculum vitae, reprints of selected publications, a short statement of research interests, and the names of three referees should be sent by mail before the 31^st of December, 2011 to: *Jean-Jacques Hublin, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, D-04103 Leipzig (Germany)*

Kind Regards,

Alyson Reid **

Alyson Reid <alyson_reid@eva.mpg.de>

MaxPlanckInst PopulationGenomics

Postdoctoral Fellowship - Population Genomics

The newly formed group for Biophysics and Evolutionary Dynamics at the Max-Planck-Institute for Dynamics and Self-Organization in Göttingen is looking for a highly motivated postdoc to work with Oskar Hallatschek on controlled evolution experiments involving microbial colonies and biofilms.

On the basis of detailed models of the mutation accumulation process in structured asexual populations, we aim at elucidating evolutionary processes that are specific to the formation of biofilms (see, e.g., http://-/www.pnas.org/content/104/50/19926.abstract). The project is primarily experimental but will involve comparison with theoretical and computational approaches. The successful applicant should have a PhD in Biology, experienced with state of basic techniques of molecular biology and have some previous experience with microbial evolution experiments.

The postdoc will join a young and interactive research group focusing on nonequilibrium statistical physics and evolutionary dynamics, including theoreticians and experimentalists. We cultivate an international atmosphere and the everyday working language is English. The MPI DS is located close to the center of the medieval town of Göttingen. More information about the group is available on the web at: http://-www.evo.ds.mpg.de The successful applicant will receive a 2 years postdoctoral fellowship. The net salary starts at approximately euro 2100,- per month depending on age and experience. Interested candidates should send a cover letter summarizing their research background and interest in the position, CV, and contact information of three potential referees as a single PDF file to: oskar.hallatschek.applications@gmail.com

Applications will be reviewed beginning November 30, 2011. Interviews will be held in December. If you have any specific questions (e.g. details of the project), feel free contact the group leader.

The Max-Planck-Institute for Dynamics and Self-

Organization is an Equal Opportunity/Affirmative Action Employer and has an affirmative action for the disabled.

oskar.hallatschek.applications@googlemail.com

MichiganStateU BEACON EvolutionBiol

BEACON Center for the Study of Evolution in Action

BEACON Distinguished Postdoctoral Fellows Program

**

BEACON is an NSF Science and Technology Center headquartered at Michigan State University with partners at North Carolina A&T State University, University of Idaho, University of Texas at Austin, and University of Washington. BEACON brings together biologists, computer scientists, and engineers to study evolutionary dynamics using biological and computational techniques and to apply evolutionary principles to engineering problems. We seek outstanding post-doctoral scholars to pursue interdisciplinary research on evolution in action with BEACON faculty members, in the fields of biology, computer science, and/or engineering.

Applicants will propose a research project within the scope of BEACON's mission and must have two BEACON faculty sponsors who will serve as research mentors should the fellowship be awarded. At least one sponsor must be from the MSU faculty; the other sponsor may be from any of the five BEACON institutions. Preference is given for interdisciplinary research. The postdoc fellow will be based at Michigan State University in East Lansing. Please see our website (http://www.beacon-center.org) for information about BEACON's mission, participants and ongoing research projects.

Applicants must submit the following, in a single PDF, to BEACON Managing Director Danielle Whittaker via email (djwhitta@msu.edu):

1.CV

2.A two-page description of their research plan

3.A one-page summary of their doctoral research

4.Letters of support from two BEACON sponsors (at least one must be from MSU)

5.Two additional letters of recommendation

Fellowships include a salary of $50,000/year and modest funds to support research and travel. The successful applicant will help foster collaborations among faculty and disciplines and serve as a professional model for pre-doctoral trainees.

A Ph.D. in biology, computer science, engineering or related fields is required. Current MSU graduate students or postdocs are not eligible for this fellowship. Minority applicants are especially encouraged to apply. MSU is an Equal Opportunity/Affirmative Action Employer.

The deadline for applications is December 15 of each year. Finalists will be invited to give research seminars in January/February, and the award will be announced in late February.

Danielle J. Whittaker, Ph.D. Managing Director BEACON Center for the Study of Evolution in Action 1441 Biomedical and Physical Sciences Building Michigan State University East Lansing, MI 48824 (517) 884-2561 djwhitta@msu.edu http://beacon-center.org "Danielle J. Whittaker" <djwhitta@msu.edu>

Montpellier 2 PlantEvolutionaryGenomics

Two post-doc positions in plant evolutionary genomics are available in Montpellier (France).

The two post-doctorate scientists will participate to the ARCAD program (2009-2013), âAgropolis Resource Center for Crop Conservation, Adaptation and Diversityâ (www.arcad-project.org) and will work on the project âComparative population genomics in wild and crop plantsâ.

Post-doc 1: Comparative population genomics of the evolution of GC-content in angiosperms

The aim of the project is to analyse the evolutionary forces (mutational bias, selection, biased gene conversion) affecting GC-content dynamics in several species distributed over the angiosperm phylogeny, including several monocot and eudicot species. The candidate will analyze large polymorphism and divergence dataset issued from high-throughput sequencing of transcriptomes to test population genetics predictions (mutation bias vs selection vs GC-biased gene conversion) and to infer population genetic parameters (selection/conversion intensity, mutational bias).

Eligibility criteria of the funding agency: The applicant should not have resided or carried out his/her main activity (work, studies, etc) in France for more than 12 months in the last 3 years and should have obtained his/her PhD degree for no more than 3 years upon the date of application

Performance period: 18 months from January 2012

Location: The post-doctorate will be located both in the ISE-M lab (http://-www.isem.cnrs.fr/spip.php?rubrique380&lang=en) and in the AGAP unit in Montpellier (http:/-/www.montpellier.inra.fr/centre_et_unites/unites_et_campus/les_unites_du_centre/agap)

Salary: Commensurate with qualifications and experience, benefits included. Gross salary around 2400â¬(3600$)

Application Deadline: 15 December 2011, or until suitable a candidate is found Please send a detailed CV, a letter of motivation, and 2 referentsâ names. Contact: Jacques David and Sylvain GlÃ©min Email : jacques.david@supagro.inra.fr and glemin@univ-montp2.fr

Post-doc 2: Comparative genomics of gene and gene families

The aim of this project is to document genomic variations in selective patterns among several crops species and their wild relatives in order to answer different questions related to functional evolution: documenting general tendencies in terms of gene family content and dynamics along the angiosperm phylogeny, comparing selective constraints between genes contrasted for their expression level, functional category or belonging to gene family differing for their size and dynamics, comparing selective constraints in gene families involved in agronomical important metabolic networks.

Performance period: 18 months from January 2012

Location: The post-doctorate will be located AGAP unit in Montpellier (http:/-/www.montpellier.inra.fr/centre_et_unites/-unites_et_campus/les_u- nites_du_centre/agap)

Salary: Commensurate with qualifications and experience, benefits included. Gross salary around 2400â¬(3600$)

Application Deadline: 30 November 2011, or until a suitable candidate is found Please send a detailed CV, a letter of motivation, and 2 referentsâ names. Contact: Nathalie Chantret , Jean-FranÃDufayard, Sylvain GlÃ©min Email : nathalie.chantret@supagro.inra.fr , jeanfrancois.dufayard@gmail.com, glemin@univ-montp2.fr

Sylvain GlÃ©min ChargÃ© de Recherche - CNRS Institut des Sciences de l'Evolution. CC64 UniversitÃ© Montpellier II Place EugÃne Bataillon 34095 Montpellier cedex 5 France Tel : 04 67 14 35 87 http:/-/www.isem.cnrs.fr/spip.php?article993&lang=en Sylvain Glemin <glemin@univ-montp2.fr>

Paris PopulationGenomics

1 postdoctoral position: Population Genomics

A postdoctoral position is available for 1 year, but that will be most likely turned into a permanent position, for population genomics on fungi at the Department of Ecology, Systematics and Evolution of the University of Paris Sud (Orsay). The project aims at understanding the evolution of sex chromosomes in fungi.

Applicants should have a Ph.D. in a relevant area (e.g. evolutionary biology, genomics), with strong evolutionary biology and genomics skills, and a vivid interest in fundamental research.

The Department of Ecology, Systematics and Evolution is a well-funded and vibrant research institution, with excellent facilities in a lively University in the South of Paris

Inquiries and applications should be sent to: tatiana.giraud@u-psud.fr Applications should be sent by November 30, and should include a CV, a one-page statement of research interests, and names of 2-3 referees. Only applications with all these information will be considered.

–

Tatiana

Tatiana Giraud

Departement Genetique et Ecologie Evolutives Laboratoire Ecologie, Systématique et Evolution UMR 8079 CNRS-UPS-AgroParisTech Bâtiment 360 Université de Paris-Sud 91405 Orsay cedex France

phone: +33 1 69 15 56 69 + 33 6 34 64 45 14 fax: +33 1 69 15 46 97

English: http://www.ese.u-psud.fr/-article211.html?lang=en Francais: http://www.ese.u-psud.fr/article223.html http://www.ese.u-psud.fr/ Tatiana Giraud <tatiana.giraud@u-psud.fr>

RoslinInst Scotland QuantGenet

The Division of Genetics and Genomics at The Roslin Institute seeks to appoint a postdoctoral researcher with a PhD in statistical or quantitative genetics or a related field (two year appointment) for a BBSRC-funded project on canine genomics. Recent developments in molecular biological and statistical technologies now allow a genomic approach to breeding against complex diseases. These techniques are currently being applied in livestock but this is one of the first such studies in dogs, for which the large number of diseases with complex inheritance makes them prime candidates for this approach. This project applies these techniques to the case of hip dysplasia, a common and highly disabling canine disease, using one of the largest datasets of its kind worldwide. The main responsibilities of the postdoctoral fellow will be to conduct genomic evaluations of predisposition to hip dysplasia and genome-wide association studies of hip score and other traits. The fellow will have close links with other researchers at the University of Edinburgh and at the Animal Health Trust (Newmarket, England). For further information, contact Pam Wiener (pam.wiener@roslin.ed.ac.uk). To apply or for further details, go to http://www.jobs.ed.ac.uk/vacancies/-index.cfm?fuseaction=vacancies.detail&vacancy_ref=-3014939 Closing date: 2 November 2011.

Pam Wiener The Roslin Institute University of Edinburgh Roslin Midlothian EH25 9PS phone: 44 (0) 131 651 9223 email: pam.wiener@roslin.ed.ac.uk

pam.wiener@roslin.ed.ac.uk

SangerInst ComputationalGenomics

A postdoctoral position in Computational Genomics is available at the Wellcome Trust Sanger Institute under the leadership of Dr Daniel Gaffney. The project will focus on understanding the role of regulatory variation in the functional architecture of complex traits, in particular susceptibility to autoimmune disorders, using HapMap cell lines and human pluripotent stem cells as model systems. The post-holder will develop computational methods to analyze and integrate a wide variety of high-throughput sequencing data, with the goal of understanding how variation in gene regulation and expression affects complex phenotypes and disease susceptibility. Our lab combines computational and experimental methods to address research questions and the successful candidate will have the opportunity to interact closely with wet-lab researchers and have access to novel high-throughput, next generation sequencing data.

We welcome candidates with a background in Biology and strong quantitative skills. Candidates from Physics, Statistics or Computer Science with strong interests in computational biology and/or population genetics are also encouraged to apply. Excellent programming skills, experience with very large data sets and an ability to work as part of a team are essential.

Essential Skills

PhD in a relevant subject area (Computational Biology, Population Genetics/Genomics, Computer Science, Physics) Excellent programming skills (C, C++, Perl, Python, Ruby) Strong statistical and quantitative skills Familiarity with statistical modeling and software Ability to communicate ideas and results effectively and to publish results in high-impact journals Ability to work well with other team members Ability to work to tight deadlines

Ideal Skills Experience with analysis of -omics data sets Previous experience with genetics of gene regulation, QTL analysis

Other information

Although genetic variation in gene regulation is thought to play an important role in evolution and disease, the pathway from regulatory mutation, via gene expression to phenotype is still poorly understood. Understanding this pathway will be an essential component in the application of genomics to personalized medicine. The Sanger Centre offers a world-class academic environment, access to cutting edge sequencing facilities and extensive expertise in genome analysis and human genetics. As such, we are in a prime position to begin to address some of these fundamental questions. The ultimate goal of our lab is to be able to predict the impact of new mutations on gene regulation and to understand how such changes impact phenotype. To achieve this, we combine of sequence and genome analysis, comparative genomics and population level, expression QTL-mapping.

Postdoctoral Fellows are typically in their first or second postdoctoral position as part of a period of early career research training. Successful applicant(s) who

have submitted their PhD thesis and are awaiting their PhD award to be confirmed will be placed on a transitional pay point, currently £26,103. On confirmation applicants will be moved on to the pay scale above.

This position is initially for a fixed term of 3 years. For further information please contact Daniel Gaffney on dg13@sanger.ac.uk or visit: http://www.sanger.ac.uk/-research/faculty/dgaffney/ . The closing date for applications is 9th November 2011. This is a 3 year fixed-term position. Salary range £28280 to £34778 per annum dependent on experience.

Daniel Gaffney Career Development Fellow Wellcome Trust Sanger Institute Wellcome Trust Genome Campus Hinxton, Cambridge, CB10 1SA UK

Tel: ++44 (0) 122 349 6866

Daniel Gaffney <dg13@sanger.ac.uk>

SaoPaulo SugarcaneBioinformatics

PD position: Sugarcane Bioinformatic

A three-year Post-Doctoral position in Bioinformatics is available to integrate the group of Dr. Marie-Anne Van Sluys at Universidade de Sao Paulo, Sao Paulo, Brazil. Outstanding and motivated candidate is expected to develop the integration of sugarcane genomic databases currently being established within the FAPESP-BIOEN research program. Also, among the current objectives is the development of cloud computing based algorithms to establish a Systems Biology algorithm for comparative genomics studies between Poaceae. Our group has a strong tradition of studying the association of Transposable elements and genomes and their impact in gene/genome structure and gene regulation. The aim is to integrate high throughput technologies, such as DNA and RNA sequence analyses and heterogeneous data such as plant phenotypes and metabolic profiles. Expertise in R package, Bioperl, GMOD, Chado and basic software development are desirable skills. The ideal candidate would have a Ph.D. in bioinformatics, mathematics, electric engineering, computer science, physics or statistics with a solid background in at least one of the other areas.

Fellowship: R$54K/year (Brazilian real) (approx $26K/year (US dollar)) plus R$16K/year bench fees to support the research (approx $8K/year (US dollar))

São Paulo city is culturally active and famous for its gastronomy. A snapshot of the city may be viewed at http://www.cidadedesaopaulo.com/sp/en . For additional information, visit our web site at

GaTE Lab http://gate.ib.usp.br/GateWeb/ BIOEN program http://bioenfapesp.org/ Applications should be sent to: mavsluys@usp.br Each application should include in one single pdf file: (1) a curriculum vitae, (2) letter with a brief description of research experience and interests, and (3) the names of 3 references along with their postal and e-mail addresses by November 15th.

Marie-Anne Van Sluys, Professor GaTE Lab (Genomes and Transposable elements) Departamento de Botânica-IBUSP rua do Matao, 277 05508-090; São Paulo, SP, BRASIL tel: 55-11-30917759 fax: 55-11-30917724

Marie-Anne Van Sluys, Full Professor GaTE Lab (Genomes and Transposable elements) Departamento de Botânica-IBUSP rua do Matao, 277 05508-900; São Paulo, SP, BRASIL tel:55-11-30917759 fax:55-11-30917724 email:mavsluys@usp.br

mavsluys@usp.br

SmithCollege CiliateSequencing

Postdoctoral Position: Next-gen sequencing of marine ciliate communities

Smith College invites applications for a full-time postdoctoral research position focusing on next-gen sequencing of nearshore ciliate communities. The initial appointment is for one year, with the possibility of extending for additional years. The position will be housed in Professor Laura Katz's laboratory in the Department of Biological Sciences (http://-www.science.smith.edu/departments/Biology/lkatz/-Research.htm); questions should be directed to lkatz@smith.edu.

The goals of the project are to elucidate patterns of diversity of ciliates in near-shore environments and to explore the ecological processes that underlie this diversity. The project is collaborative between Laura Katz at Smith College and marine ecologist George McManus at the University of Connecticut (http://-microzooplankton.uconn.edu/). Work on the project combines next-generation sequencing, mesocosm analyses, and community footprints through DGGE. Hence, applicants should have skills in molecular evolution and bioinformatics.

Research in the Katz lab aims to elucidate principles of the evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on four interrelated areas: (1) Characterizing evolutionary relationships among eukaryotes; (2) Reconstructing the ciliate tree of life through multi-gene analyses; (3) Exploring the evolution of ciliate and foraminiferan genomes; (4) Describing the phylogeography of coastal marine ciliates.

To apply, submit application at http://jobs.smith.edu with letter of application, C.V., a statement of research interests, representative publications, and the names and contact information of three references. Review of applications will begin November 1st, 2011.

Smith College is a member of the Five College Consortium with Amherst, Hampshire, and Mount Holyoke Colleges and the University of Massachusetts Amherst. Smith College is an equal opportunity employer encouraging excellence through diversity.

lkatz@smith.edu

TexasAustin TumorEvolutionaryModels

POSITION TITLE: Postdoctoral Researcher

POSITION SUMMARY: The Center for Computational Neuroscience at NeuroTexas Institute at St. David's HealthCare seeks a highly motivated individual who is interested in the genetics and genomics of glioblastoma multiformae (GBM). Of particular interest, is the development of evolutionary-genetic models suitable for studying the dynamics of mutations within growing GBM tumors and related bioinformatic approaches for model validation using DNA/RNA sequence data from GBM tumors.

NeuroTexas Institute is a highly multidisciplinary clinical, research and educational institute affiliated with St. David's HealthCare in Austin, TX. The Institute enjoys an open and highly productive relationship with the adjacent University of Texas at Austin. This particular research is part of an ongoing collaboration with Claus Wilke at UT - Austin, and there may be opportunities for conducting novel DNA/RNA sequencing studies of tumors specimens collected at the Institute.

The two-year position is available beginning January 1, 2012. Candidates must have completed their PhDs in computational biology, computer science, mathematics or physics. Ideal candidates will be familiar with evolutionary theory and modeling, DNA/RNA sequence analysis and bioinformatics, and systems biological approaches. Previous knowledge and experience with cancer genomics and modeling is an additional plus.

Please submit a letter of intent, curriculum vitae and the names and addresses of two references to:

Dr. Matthew C. Cowperthwaite Center for Computational Neuroscience NeuroTexas Institute at St. David's HealthCare 1015 East 32nd Street, Suite 404 Austin, Texas 78705

Matthew.Cowperthwaite@stdavids.com

UArizona EvolutionaryPhysiology

Postdoc: Evolutionary Ecology and Physiology

University of Arizona

Postdoctoral position is available in the lab of Dr. Renee Duckworth in the Department of Ecology and Evolutionary Biology (http://www.u.arizona.edu/ ˜ rad3) on an NSF-funded project studying maternal effects on colonizing behavior. We are looking for a candidate with an interest in integrating concepts and methodologies from evolutionary physiology, developmental biology and genetics to gain a detailed understanding of the proximate basis of complex behavioral traits.

A Ph.D. in biology is required, with preference given to candidates with a strongbackground in evolutionary biology. Ideal candidate will have hands-on experience in laboratory physiological (e.g., EIA, HPLC) and/or molecular genetics methods and a demonstrated ability to integrate across biological disciplines. Prior experience of working with birds or other vertebrates is a plus. The postdoc will work closely with the PI to design and lead research in the lab, and prepare grant proposals and manuscripts.

Application Procedure: To apply, please submit online (https://www.uacareertrack.com, posting number 48825) a cover letter detailing your research interests and experience, curriculum vitae, and contact information for three references.

Review of applications will begin November 10, 2011, but the position will remain open until a suitable candidate is found. Position can begin as early as January 2012, but later start dates can be arranged. This is a

one-year appointment and is renewable for up to two years, contingent upon available funding and satisfactory performance.

Contact Dr. Renee Duckworth <rad3@email.arizona.edu> for information about the position and Lili Schwartz <hildaq@email.arizona.edu> for information about application procedures.

rad3@email.arizona.edu

UBern PlantBiodiversity

Post Doc position in plant ecology at the University of Bern, Switzerland

We are seeking a Post Doc highly motivated to work on the effect of land use on the biodiversity of plants. The work will be part of the Biodiversity Exploratory project (http://www.biodiversity-exploratories.de) funded by the German Science Foundation (DFG), which involves field work at three sites in Germany, experimental studies in the field, and multispecies experiments in greenhouse and common garden. Ideally, the candidate for this position should have a background in vegetation science, experimental ecology, or plant population biology and sound knowledge of statistical methods, in particular multivariate methods for vegetation analyses.

The position will be with Prof. Dr Markus Fischer and Dr. Daniel Prati in the Plant Ecology group at the Institute of Plant Sciences of the University of Bern, Switzerland, (http://www.botany.unibe.ch/-planteco/index.php). Bern is a beautiful city with a world-heritage old town and offers a high quality of living. The city is close to the mountains and therefore ideal for hiking or skiing. The institute offers a stimulating international research environment and excellent facilities. In addition to projects on biodiversity, our group is involved in projects on evolutionary and molecular plant ecology, plant population biology, Alpine ecology and invasion biology. The position is funded by the German Science Foundation for an initial period of 3 years.

Requirements for the positions include a PhD degree in biology, ecology or environmental sciences, a drivers license, fluency in English and good collaboration skills. Working knowledge in German is advantageous.

Applicants should e-mail a letter of application, a curriculum vitae, a list of publications and contact details of two references to Markus Fischer (Markus.Fischer@ips.unibe.ch). In the letter of application, the applicant should include a statement on his or her research interests and should motivate why she or he wants to work on biodiversity. The applicant should also present details on her or his experimental and statistical skills. The application deadline is October 30, 2011. For more information on this position, the project and research in our lab contact Daniel Prati (daniel.prati@ips.unibe.ch).

– Daniel Prati Institute of Plant Sciences University of Bern Altenbergrain 21 CH - 3013 Bern SWITZERLAND Tel.: + 41 31 631 49 23 Fax.: + 41 31 631 49 42 daniel.prati@ips.unibe.ch

"Prati, Daniel (IPS)" <daniel.prati@ips.unibe.ch>

UCalgary EcoEvoDynamics

I am once again seeking applicants for the Killam postdoc. This is a competitive, 2-year postdoc awarded by the University of Calgary in any academic discipline. The award provides a salary of $45,000 CAD/year, health benefits, and a research/relocation allowance of $6000. For more on the Killam postdoc, see http://www.grad.ucalgary.ca/awards/-award_competitions/killam_postdoctoral_awards

The awardee would be expected to develop their own independent research on some topic of mutual interest to themselves and their faculty mentor (that would be me). I welcome applicants interested in pursuing fundamental theoretical and/or empirical research in any area of evolutionary ecology (especially eco-evolutionary dynamics), as well as population and community ecology. For more on my lab, see http://-homepages.ucalgary.ca/%7Ejefox/Home.htm To be eligible, you must have completed your PhD sometime after Sept. 1, 2009, or else anticipate completion by Sept. 1, 2012.

The University of Calgary is home to a strong group of evolutionary biologists and ecologists, who are part of a large Dept. of Biological Sciences (>60 faculty, >170 graduate students). The city of Calgary is a vibrant city of one million people, close to the Rocky Mountains with all the opportunities for research and recreation that implies.

Application deadline is Dec. 15, 2011 (that's the de-

partmental deadline; one applicant will be selected by my dept. for consideration at the university level in Jan. 2012). The application needs to include a research proposal; prospective applicants should contact me well in advance to discuss this.

-Jeremy Fox

Associate Professor Dept. of Biological Sciences University of Calgary 2500 University Dr. NW Calgary, AB T2N 1N4 Canada http://homepages.ucalgary.ca/~jefox/Home.htm Jeremy Fox <jefox@ucalgary.ca>

UCalifornia Davis ComparativeFungalGenomics

Post-doctoral Position in Comparative Fungal Genomics

Department of Plant Pathology, University of California Davis, Davis, CA, USA

A Post-doctoral position is available in the field of Comparative Fungal Genomics at the department of Plant Pathology, University of California Davis (UCD) and the newly established lab of Dr Ioannis Stergiopoulos. The position is part of an ongoing recruitment process of scientific personnel for the lab, directly funded by UCD. The interdisciplinary research group focuses on the genetics, genomics and evolution of plant-microbe interactions, aiming at gaining a deeper level of understanding on the molecular mechanisms of fungal pathogenesis and host-specificity (http://plantpathology.ucdavis.edu/faculty/stergiopoulos/).

The project will focus on the evolution of virulence and host-specificity in fungal plant pathogens and will involve the genome sequencing of several Dothideomycete species using next generation sequencing platforms (Illumina, 454, etc), bioinformatics analyses, and follow-up experiments to investigate the biological significance of the data generated by the in silico analyses. Emphasis will be given in comparative secretomes analyses and the characterization of virulence and pathogenicity factors from selected Dothideomycete plant pathogens. Sequencing of these pathogens has already been initiated at the department of Biological Sciences at Vanderbilt University, TN, USA, as part of ongoing collaborations and will continue at the UCD Genome Research Center. The candidate will also collaborate with labs in the Netherlands and the US for the exchange of data and expertise in the fields of comparative genomics, evolutionary biology and molecular plant-microbe interactions. Finally, the person filling this position is expected to work closely with other members of the group currently under recruitment who will perform the experimental validation of the data generated by the bioinformatics analyses.

Required qualifications for this position are a PhD in Bioinformatics, Computational Sciences, Evolutionary Biology, Statistics or equivalent. Excellent knowledge in programming (Perl/Python, etc), use of Unix/Linux and demonstrated previous experience with analyzing large genomic data sets generated by next generation sequencing platforms (Illumina, 454, etc) are mandatory. Molecular Evolutionary Biologists with an interest on studying fungal speciation events and host-adaptation are encouraged to apply. Previous working experience with plant pathogens is desirable but not required. A strong publication record and excellent oral and written communication skills are also highly desirable attributes. The position is for 2 years (1+1) but could be extended if additional funding is available. Salary is based on experience and qualifications according to NIH guidelines. The University of California Davis provides a highly vibrant intellectual atmosphere, a pleasant college environment and career development activities specifically designed for Post-docs.

Please send in a single pdf file a full CV, a short description of your research experience relevant to this position and contact details of three references to Dr Ioannis Stergiopoulos (istergiopoulos@ucdavis.edu) and Cc to Mrs Janet Brown-Simons (jbsimmons@ucdavis.edu). Closing date for applications is January 10, 2012 but the position will remain open until filled.

istergiopoulos@ucdavis.edu

UCalifornia Davis Heterosis

Postdoc in the genomic basis of heterosis at University of California, Davis

A postdoctoral position in plant evolutionary genomics is available in the Ross-Ibarra lab at the University of California, Davis. Current funding is for one year, but opportunities for extending the position beyond one year are likely. The start date is flexible, but the position is available to start immediately.

The funded project will investigate the genetic basis of heterosis in maize using full-genome sequence of 12

inbred lines in conjunction with phenotypic data from a diallel cross of the same lines. Data for the project is already being generated; the applicant would be responsible for analysis of the genome sequence data to investigate the genetic basis of heterosis for phenotypic traits.

Applicants should have a PhD in evolution, genetics, genomics, computational biology, or a similar discipline. Demonstrated experience with high-density SNP data or next-generation sequence data and familiarity with a unix environment and at least one programming/scripting language is strongly desired. Salary will be competitive and dependent on background and experience.

Applicants should send a cover letter, a CV with publications, and contact information for three references. Applications or queries should be directed to rossibarra@ucdavis.edu.

More information on the lab can be found at www.rilab.org and on UC Davis at www.ucdavis.edu . Jeffrey Ross-Ibarra

Dept. of Plant Sciences and Genome Center 262 Robbins Hall, Mail Stop 4 University of California One Shields Ave Davis, CA 95616

Tel: 530-752-1152 Fax: 530-752-4604 www.rilab.org rossibarra@ucdavis.edu

UCalifornia SantaCruz ExperimentalEvolution

The University of California, Santa Cruz invites applications for the position of Postdoctoral Scholar in the Department of Ecology and Evolutionary Biology, under the direction of adjunct Assistant Professor Samantha Forde. The selected candidate will participate in research on experimental evolution of generalist and specialist viruses.

The selected candidate will participate in interdisciplinary collaboration between the experimental evolution group of Dr. Forde at the University of California Santa Cruz and the mathematical modeling group of Dr. Ivana Gudelj at the University of Exeter, UK. This project will employ a pioneering combination of mathematical modeling and experimental microbial evolution to answer the following question: Why do some viruses evolve to be specialists while others are generalists? The selected candidate will work collaboratively with the PI and help oversee undergraduate student assistants. The selected candidate will have considerable independence and intellectual input into the execution of the project. The selected candidate will be highly motivated, have strong written and oral communication skills, and be able to work well both independently and as part of a small team.

RANK: Postdoctoral Scholar V Employee

SALARY: $38,496 - $43,500 annually, commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: Ph.D. or equivalent in Biology, Ecology, Evolution, Microbiology, or related field. Expertise in experimental evolution of bacteria and bacteriophage, including one or more of the following areas: determining infectivity, host-range, burst rate, and bacterial growth rates, working with chemostats, and creating knock-out mutants.

PREFERRED QUALIFICATIONS: Preference will be given to candidates with a track record of successful grant funding and publishing in leading journals. A strong interest in the evolutionary ecology is preferred. Some familiarity with bioengineering bacteria and/or bacteriophage is a definite asset.

TERM OF APPOINTMENT: Initial appointment is for one year, with the possibility of extension up to three years. Should hiring unit propose reappointment, a review to assess performance will be conducted. In addition, reappointment is contingent upon availability of funding. For appointments within the University of California, the total duration of an individuals postdoctoral service may not exceed five years, including postdoctoral service at other institutions. Under certain circumstances, a sixth year may be considered.

START DATE: As soon as possible after closing date.

TO APPLY: Electronic submission (with attachments in pdf format) is preferred. Applicants should send a cover letter describing their research background and interests, a curriculum vitae, and three letters of recommendation by email to forde@biology.ucsc.edu. Alternate mailing address: Dr. Samantha Forde Ecology and Evolutionary Biology Please refer to Position #T12-18 in your reply. University of California 1156 High Street Santa Cruz, CA 95064

CLOSING DATE: Position is open until filled. Initial consideration of applications will begin on November 21, 2011. Full consideration will be given to applications received by that date .

Samantha E Forde <sameford@gmail.com>

UCBerkeley EvolutionGlobalChangeGenomics

UCBerkeley_EvolutionGlobalChangeGenomics

The Rosenblum Lab will be moving to UC Berkeley in January 2012 and will have openings for postdoctoral researchers. Research in the lab focuses on the processes that generate and impact biological diversity with an emphasis on the mechanisms of rapid organismal change. We are particularly interested in both sides of the evolutionary speciation/extinction "coin" and specifically how changing environments impact these processes. Conceptually, our research addresses integrative questions with evolutionary, ecological, and conservation relevance. Methodologically, we favor an integrative genes-to-communities approach and use techniques from functional genomics to field ecology. The Rosenblum Lab will be housed in UC Berkeley's Environmental Science Policy and Management Department (ESPM), and will be affiliated with the Museum of Vertebrate Zoology (MVZ) and the Berkeley Initiative in Global Change Biology (BiGCB).

The postdoctoral researcher will contribute substantially to projects addressing mechanistic questions about speciation and extinction in reptile and amphibian assemblages of the western US. Specifically, we are studying adaptation and ecological speciation in White Sands lizards and disease-related declines and extinctions in amphibians. Details on these projects can be found at http://nature.berkeley.edu/rosenblum/- . There will also be several new projects, which will be shaped in collaboration with the postdoc. Demonstrated strengths in bioinformatics, population genetics and/or molecular genetics preferred.

Please email CV and brief description of research interests to rosenblum@uidaho.edu by Nov 15th.

rosenblum@uidaho.edu

UEdinburgh HostParasiteEvolution

Post Doc in the ecology and evolution of host-parasite interactions as the University of Edinburgh

See http://www.jobs.ed.ac.uk, vacancy ref014969

Three-year NERC-funded Post-Doctoral research position to study maternal effects on a hosts' ability to resist parasites. A recent publication on this research is: Stjernman & Little. 2011. Genetic variation for maternal effects on parasite resistance. Journal of Evolutionary Biology DOI: 10.1111/j.1420-9101.2011.02363.x.

The work will utilise the crustacean Daphnia as host, and the bacterium Pasteuria ramosa as parasite. This is a naturally coevolving host-parasite system, and thus the project provides an excellent opportunity to gain insight in to how maternal condition will impact evolutionary and coevolutionary outcomes. The lab where the work will be carried out (see http://www.biology.ed.ac.uk/research/-groups/tlittle/) usually focuses on experimental studies, life-history evolution and field-work, but depending on the motivation of the applicant, theory or investigation into the molecular mechanisms of maternal effects is also possible.

Applicants must have, or will shortly obtain a PhD. Ideally, the candidates PhD or other past research will be in evolutionary biology or ecology. We are looking for a highly motivated candidate with deep interests in host-parasite evolutionary ecology and life histories, as opposed to someone with a specific laboratory skill set.

Start date: Dec 1 (flexible)

Duration: 36 months

Supervisor: Tom Little

Informal enquiries: tom.little@ed.ac.uk

Salary will be based on standard UK scales, and will be adjusted based on the age etc of the candidate.

Apply at See http://www.jobs.ed.ac.uk, vacancy ref014969

Informal enquiries to tom.little@ed.ac.uk

Tom Little Wellcome Trust Senior Research Fellow in Basic Biomedical Sciences Institute of Evolutionary Biology Kings Buildings University of Edinburgh EH9 3JT UK

+44 131 650 7781

tom.little@ed.ac.uk

http://www.biology.ed.ac.uk/research/groups/tlittle/
Tom Little <Tom.Little@ed.ac.uk>

UEdinburgh HostParasiteEvolution 2

Reminder that the closing date for the following job is soon (and the vacancy reference number was chopped off in the original!)

Post Doc in the ecology and evolution of host-parasite interactions as the University of Edinburgh

See http://www.jobs.ed.ac.uk vacancy ref 3014969

Three-year NERC-funded Post-Doctoral research position to study maternal effects on the ability to resist parasites. A recent publication on this research is: Stjernman & Little. 2011. Genetic variation for maternal effects on parasite resistance. Journal of Evolutionary Biology DOI: 10.1111/j.1420-9101.2011.02363.x.

The work will utilise the crustacean Daphnia, and the pathogenic bacterium Pasteuria ramosa. This is a naturally coevolving host-parasite system, and thus the project provides an excellent opportunity to gain insight in to how maternal condition will impact evolutionary and coevolutionary outcomes. The lab where the work will be carried out (see http://-/www.biology.ed.ac.uk/research/groups/tlittle/) usually focuses on experimental studies, life-history evolution and field-work, but depending on the motivation of the applicant, theory or investigation into the molecular mechanisms of maternal effects is also possible.

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Tom Little Wellcome Trust Senior Research Fellow in Basic Biomedical Sciences Institute of Evolutionary Biology Kings Buildings University of Edinburgh EH9 3JT UK

+44 131 650 7781

tom.little@ed.ac.uk

http://www.biology.ed.ac.uk/research/groups/tlittle/
Tom Little <Tom.Little@ed.ac.uk>

– Pedro Vale Tel: +33 (0)6.37.19.98.85

Tom Little Wellcome Trust Senior Research Fellow in Basic Biomedical Sciences Institute of Evolutionary Biology Kings Buildings University of Edinburgh EH9 3JT UK

+44 131 650 7781

tom.little@ed.ac.uk

http://www.biology.ed.ac.uk/research/groups/tlittle/

Tom Little <tom.little@ed.ac.uk>

UExeter EvolutionaryBiol

Biosciences CLES Polyandry and sex ratio drive Postdoctoral Research position (Ref: P42567) Salary will be in the range £26,629 to £30,870 Fixed Term for 36 months

Biosciences, Cornwall, wishes to recruit a Post-Doctoral Research Assistant to work in the laboratory of Professor Nina Wedell on a Natural Environment Research Council (NERC) funded research project on polyandry and sex ratio drive in fruit flies. The successful applicant will be involved in determining the causes and consequences of variation in degree of female multiple mating for the fate of a sex ratio distorter in natural populations using molecular, genetic, and behavioural approaches in the fruit fly Drosophila pseudoobscura. The position is available from the 1st February 2012.

Ideally applicants will possess a PhD in evolutionary biology and/or behavioural ecology/molecular biology, preferably with a background in Drosophila. Knowledge of techniques for fly behavioural experiments, dissection and microscopy, QTL, microarray and candidate gene analysis and would be desirable. Prior experience with modelling would also be an advantage. The applicant should be a confident, independent scientist with broad knowledge in the discipline and would be expected to be capable of preparing data for publication and assist in training of graduate students. For fur-

ther information please contact Professor Nina Wedell, e-mail: n.wedell@ex.ac.uk or telephone (01326) 371863.

To apply, please send your CV and covering letter with the contact details of three referees to Professor Nina Wedell, Professor of Evolutionary Biology, Daphne du Maurier, University of Exeter, Cornwall Campus, Penryn, Cornwall, TR10 9EZ (e-mail: n.wedell@ex.ac.uk) quoting the job reference P42567.

The closing date for completed applications is Friday 4th November 2011. Interviews are likely to be held in the week commencing 21st November 2011.

The University of Exeter is an equal opportunity employer and promotes diversity in its workforce and, whilst all applicants will be judged on merit alone, is particularly keen to consider applications from groups currently underrepresented in the workforce.

Tom Price Institute of Integrative Biology Biosciences Building, Crown Street University of Liverpool Liverpool L69 7ZB

+44 151 795 4558

T.Price@liverpool.ac.uk

UFlorida Phylogenomics

The Kawahara Lab at the University of Florida, Gainesville, is currently seeking a postdoctoral fellow to study the phylogenomics of Lepidoptera (butterflies and moths).

Required: Familiarity with Next Generation Sequencing, computer programming/scripting in Perl/Python. An interest in insect evolution is desired, but not necessary.

The position centers around research on comparative genomics of Lepidoptera (butterflies and moths), specifically the Gracillariidae (leaf-mining moths). Responsibilities include sample preparation of genomic libraries for NGS and analysis. The successful candidate will work closely with technicians and students in the lab. Position available Jan 1, 2012 or until the position is filled.

To apply, submit a cover letter, CV, and 3 reference contacts to kawahara@flmnh.ufl.edu. Any questions can be addressed to Akito Kawahara at kawahara@flmnh.ufl.edu. A lab website can be found at: http://www.flmnh.ufl.edu/mcguire/-kawahara/ – Akito Y. Kawahara Assistant Curator of Lepidoptera McGuire Center for Lepidoptera and Biodiversity Florida Museum of Natural History University of Florida 3215 Hull Road Gainesville, FL 32611-2710 USA Tel: 352.273.2018 Fax: 352.392.0479 Email: kawahara@flmnh.ufl.edu http://-www.flmnh.ufl.edu/mcguire/kawahara/

kawahara@flmnh.ufl.edu

UFribourg DaphniaEvolGenetics

A Postdoc position in evolutionary genetics

is available at the Ecology and Evolution unit, University of Fribourg, Switzerland. I am looking for a highly motivated candidate with interest in a keen evolutionary biology. A solid background in population genetics, molecular evolution and/or evolutionary genomics is helpful. Possible topics include breeding system evolution, evolution of senescence, and evolution in small vs. large populations, using Daphnia magna as main study organism. However, the exact project will be worked out together with the successful candidate. Previous experience with Daphnia is not required, but excellent written, verbal, and interpersonal skills, good work ethics, and the ability to think creatively and critically are desired. The starting date is from January 2012 onwards. The position is funded for 2.5 years (or 3 years at 80%) and comes with a competitive salary.

The postdoc will be part of Christoph Haag's group working on evolutionary genetics of Daphnia. Details about the group can be found at

http://www.unifr.ch/biol/ecology/haag/-haag_lab_home.html Please send your application by E-mail to christoph.haag@unifr.ch. Applications should include a single pdf-file containing 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. Applications received before 28 October 2011 will be given full consideration. Interviews will be held as soon as possible afterwards.

Contact information:

Christoph Haag University of Fribourg Department of Biology Unit of Ecology & Evolution Chemin du Musée 10 CH-1700 Fribourg Switzerland

Phone: +41 (0)26 300 88 71 Fax: +41 (0)26 300 96 98

E-mail: christoph.haag@unifr.ch http://-www.unifr.ch/biol/ecology/haag/haag_lab_home.html
HAAG Christoph <christoph.haag@unifr.ch>

UHawaii Manoa CopepodGeneFlow

POSTDOCTORAL FELLOWSHIP - ZOOPLANKTON MOLECULAR ECOLOGY University of Hawaii at Manoa Department of Oceanograph Applications are invited for a postdoctoral fellowship position in zooplankton molecular ecology in E. Goetze's laboratory in the Department of Oceanography, University of Hawaii, at Manoa.

The postdoctoral scientist will lead efforts in nuclear marker development for an NSF-funded project on population connectivity and dispersal in oceanic plankton species. The project aims to test the hypothesis that depth habitat and vertical migration behavior are keys traits that influence dispersal and gene flow among plankton populations in open ocean habitats. Our approach is comparative, and we are working to resolve the spatial patterns of gene flow among populations of eight copepod species that utilize very different depth habitats (surface 1000 m) The postdoc's primary responsibilities on this project will be to (1) develop new microsatellite (or RAD tag) markers for 1-2 planktonic copepods, and (2) apply these markers across a global collection of material (Atlantic, Pacific, and Indian Oceans; subtropical and tropical waters). 454 sequencing will be used for marker development, and applicants with skills in handling these datasets are particularly desired. If interested, opportunities would exist to participate in fieldwork at sea, gain university teaching experience at the graduate and undergraduate levels, attend training workshops, and obtain experience in writing research grants. Support will be provided to present research results at national or international meetings. Initial appointment is for 1 year.

The School of Ocean and Earth Science and Technology (SOEST) was established at the University of Hawaii at Manoa to promote excellence in interdisciplinary research and graduate education in marine, atmospheric, and geological sciences. This postdoctoral position is within the Department of Oceanography at SOEST, and is located on the main Manoa campus. Additional information about the Biological Oceanography Division and the Department of Oceanography can be found at: http://www.soest.hawaii.edu/-oceanography/ . Qualifications: The successful candidate will have a PhD in oceanography, marine biology, zoology or a related field, and strong molecular skills. While not required, ideal candidates will have experience with nuclear marker development in other organisms, and will have some experience with handling large genetic datasets (from 454 or Illumina platforms).

How to apply: Electronically submit a coverletter, CV, brief statement of research experience and interests, and names and contact information for three references to egoetze@hawaii.edu. Review of applications will begin on November 4, 2011 and will continue until a suitable candidate is found. An ideal start date would be in Winter 2011-2012 (or sooner). Feel free to contact Dr. Goetze with questions about the research or position.

Erica Goetze Department of Oceanography University of Hawaii at Manoa Marine Science Building, # 606 1000 Pope Road Honolulu, HI 96822

Erica Goetze <egoetze@hawaii.edu>

UKansas Biodiversity

Postdoctoral Researcher in Biodiversity Science at the University of Kansas

The research group of Andrew Short in the Department of Ecology and Evolutionary Biology and Biodiversity Institute at the University of Kansas invites applications for the position of postdoctoral researcher. We seek applicants with research interests and demonstrated experience in modern Biodiversity Science (including, but not limited to molecular and morphological systematics, phylogeography, ecological niche modeling, biogeography, and bioinformatics) to conduct both independent and collaborative research on or utilizing aquatic beetles as the focal/model taxa. We are particularly interested in ecological diversification in aquatic habitats, Neotropical biogeography, and molecular methods in systematics. The position is available for 18 months with possible 6- month extension. The successful applicant will plan, conduct, and publish research in the biodiversity sciences independently and in collaboration with lab personnel; contribute to the professional development of undergraduate and graduate students; and assist with lab management and operations. Required qualifications: Ph.D. in Biology, Entomology, or related field by date of employment. Record of excellence in research as demonstrated by publication in peer-reviewed journals and written statement of

research experience and interests. Demonstrated experience with modern molecular methods in systematic biology.

Desired qualifications: Research experience in Coleoptera or aquatic insects. Fieldwork experience in challenging conditions. Demonstrated knowledge or fluency in Spanish or Portuguese

Applications: Apply to: https://jobs.ku.edu and search for Position #00000300. Applicants should submit a current CV, statements of research experience and research interests, and three professional references. Review of applications to begin November 1, 2011 and will continue until the position is filled. Target start date: June 1, 2012 (very flexible). For more information on our research group visit http://sites.google.com/site/-theshortlab/ . Inquiries may be directed to Andrew Short (aezshort@ku.edu). EO/AA employer.

Andrew Short Assistant Professor & Curator Division of Entomology, Biodiversity Institute Department of Ecology & Evolutionary Biology University of Kansas Lawrence, KS 66045

Office: 785.864.2323 Email: aezshort@ku.edu http:/-/sites.google.com/site/theshortlab/ Andrew Short <aezshort@ku.edu>

ULiverpool DaphniaEpigenetics

Daphnia epigenetics post-doc, UoLiverpool Stewart Plaistow, Steve Paterson, Daimark Bennett

Closing date for receipt of applications: 11 November 2011

You will join a 3 year NERC funded project to determine the role of non-genetic inheritance (parental effects, epigenetics) in explaining contemporary evolution. Using Daphnia pulex and its response to various pollutants as a model system, we will combine ecotoxicology, novel molecular genomic techniques, and experimental evolution into a single study. The project represents an exciting opportunity to determine the evolutionary and ecological significance of non-genetic inheritance while simultaneously developing novel environmental risk assessment tools using state of the art molecular genomic techniques. You should have a PhD in evolutionary biology or similar and relevant experience.

Further details and application pack from http://www.liv.ac.uk/working/job_vacancies/-research/R-574466.htm Informal enquiries contact s.plaistow@liv.ac.uk or s.paterson@liv.ac.uk

– Steve Paterson

Institute of Integrative Biology University of Liverpool Liverpool, L69 7ZB, UK Tel +44 151 795 4521 Fax +44 151 795 4408 Mob +44 151 794 7668 s.paterson@liv.ac.uk

“Paterson, Steve” <S.Paterson@liverpool.ac.uk>

UMelbourne DenguePopulationGenetics

RESEARCH FELLOW - NHMRC - ASIA PACIFIC CENTRE FOR INNOVATIVE DENGUE PREVENTION (RE-ADVERTISED)

Department of Genetics, Faculty of Science, The University of Melbourne

Salary: $56,226* - $76,299 p.a. (*PhD entry level: $71,081 p.a.) plus 9% superannuation

This Postdoctoral Research position based at The University of Melbourne Parkville Campus, offers the unique opportunity to work with one of Australia’s leading ARC Laureate Fellows as part NHMRC- funded Asia Pacific Centre for Innovative Dengue Prevention. You will work as part of a team of internationally renowned scientists towards implementing exciting new methods for the reduction of dengue transmission in Australia and ultimately worldwide.

The role requires a PhD in spatial ecology or ecological / population genetics, or equivalent qualification, expertise in experimental design and insect handling, as well as familiarity with population genetics theory and the theory of age structured populations, and have a proven track record in publications.

Re-advertised position, previous applicants need not apply. Employment Type: Full Time (Fixed-term) position, available 2 years (1 October 2011 - 30 September 2013) Enquiries only to: Emily Thomson, Tel +61 3 8344 2522, Email emilyct@unimelb.edu.au Close date: 6 November 2011

For position information and to apply online go to www.hr.unimelb.edu.au/careers< http://-www.hr.unimelb.edu.au/careers >, click on ’Job Search’ and search under the job title or job number

0027392.

Lynne Pryor <lpryor@unimelb.edu.au>

UMinnesota SpeciationAdaptation

Post-doctoral Position: Ecological Genetics and Population Genomics of Speciation

A post-doctoral position is available in the Moeller Laboratory in the Department of Plant Biology at the University of Minnesota. The post-doc will participate in an NSF-funded project examining ecological speciation in the genus Clarkia using both field experiments and population genomics.

Our research investigates the role of natural selection in the evolution of reproductive isolation between incipient species, including studies of prezygotic and postzygotic isolating mechanisms. In particular, we are examining the role of mating system divergence in the evolution of prezyogtic isolation using manipulative field experiments in the foothills of the Sierra Nevada of California. We are also examining the population genomics of local adaptation and species divergence using next generation sequencing.

Candidates should have a strong background in ecological and/or evolutionary genetics. Previous experience with complex field experiments, molecular population genetics, and the analysis of next generation sequence data is desirable but not required. I am particularly interested in creative, highly motivated, and independent researchers with interests in the integration of ecological and molecular approaches to examine fundamental questions in evolutionary biology.

More information on my lab and our current research can be found at: http://www.cbs.umn.edu/labs/moeller Applicants should send an email to moeller@umn.edu describing their background and interests, CV, and the names and contact information of at least two references. The position includes a competitive salary and benefits package and is renewable for up to 2.5 years contingent upon performance. The start date of the position is flexible.

David Moeller Assistant Professor Department of Plant Biology St Paul, MN 55108 (612) 624-1037 http://www.cbs.umn.edu/labs/moeller/ moeller@umn.edu

UNorthCarolina ChapelHill EvolutionaryTheory

Postdoctoral Position at the University of North Carolina, Chapel Hill

A position is available for a Postdoctoral Research Associate in the lab of Maria Servedio at the University of North Carolina, Chapel Hill, to work on theoretical models of male and mutual mate choice. The applicant will be expected to develop an independent research project(s) in addition to collaborating with the PI on theoretical projects. Prior experience with theoretical modeling techniques, a strong mathematical background, and programming skills is preferred. A Ph.D. and a strong background in evolution is required.

Research in the Servedio lab concentrates developing mathematical models of speciation and mate choice. Please see http://www.bio.unc.edu/Faculty/Servedio/Lab/Home.html or contact Maria Servedio (servedio@email.unc.edu) for more information on projects ongoing in the lab.

The appointment is for 2 years with a flexible start date. Send applications including a CV, description of research experience and interests, brief description of background in theory and related skills, and names and addresses of three references to Maria Servedio at servedio@email.unc.edu

Informal inquiries are welcome as well. Review of applications will begin on October 30 and continue until the position is filled.

servedio@email.unc.edu

UNotreDame Genomics

The University of Notre Dame Environmental Change Initiative (ND-ECI; http://environmentalchange.nd.edu/) is seeking three Postdoctoral Fellows (PDF) to work in the area of environmental genomics. The ND-ECI is a recent addition to a series of targeted investments to grow excellence in environmental science, genomics, and

bioinformatics at the University of Notre Dame. Researchers in the ND-ECI will find a rich environment for collaboration through the EckInstitute for Global Health< http://globalhealth.nd.edu/index.html >, the Interdisciplinary Center for Network Science and Applications< http://icensa.nd.edu/ >, and state-of-the-art equipment in the Genomics and Bioinformatics Core Facility< http://globalhealth.nd.edu/index.html >. Successful applicants will be integral members of a dynamic multidisciplinary team, including faculty, research staff, and graduate students, exploring genetic and genomic aspects of environmental change. There will be abundant opportunities for collaboration, granstmanship, mentoring of graduate students, and professional development.

We seek one PDF to work with a team of biologists and computer scientists to forge links between microbialecophysiological traits, genome content, and the role of microbial communities in ecosystem function and global change scenarios. Applicants should have earned or will soon earn a Ph.D. in some area of biology or bioinformatics and possess experience in aquatic or soil microbial ecology and/or microbial genomics. A successful applicant would work closely with Drs. Stuart Jones (http://-biology.nd.edu/people/faculty/jones/), Michael Pfrender (http://biology.nd.edu/people/faculty/pfrender/), and Scott Emrich (http://www.nd.edu/˜semrich/).

We seek a second PDF with expertise in conservation genetics and molecular ecology to collaborate with faculty and graduate students on the early detection ofaquatic invasive species using environmental DNA. Qualified candidates should have completed their Ph.D. by January 2012 and have a well-documented publication record. The ideal candidate would have experience in marker design, qPCR, and sample preparation for high-throughput sequencing. Experience with aquatic systems is preferred but not required. A successful applicant will be a member of the David M. Lodge Lab (http://nd.edu/˜lodgelab/).

We seek a third PDF in the area of environmental genomics to examine the relationship between gene function and adaptation in changing environments. Applicants that have earned or will soon earn a Ph.D. in biology or bioinformatics and possess experience in genomics, population genetics, metagenetics, computational biology or related fields are encouraged to apply. Knowledge of statistics, in particular high-throughput sequence and microarray data analysis, is also highly desired. A successful applicant will be a member of the Michael Pfrender Lab (http://www.nd.edu/-˜mpfrende/).

Applicants should send one single pdf with a cover letter explaining how their research experience and trajectory could contribute to ND-ECI and a CV, plus the names of at least three references, to the Environmental Change Initiative at eci@nd.edu. Please put "Environmental Genomics Application" in the subject line. The University of Notre Dame is an equal opportunity employer with a strong institutional and academic commitment to diversity.

– Environmental Change Initiative University of Notre Dame http://environmentalchange.nd.edu/ Office (574) 807-9322

Innovation Park 1400 E. Angela Blvd., Unit #117 South Bend, IN 46617

"environmental change initiative (eci) - (eci)" <eci@nd.edu>

UProvence BacterialPhylogenomics

Position available : 2 years EBM lab and URMITE lab

subject

Rickettsia species are obligate intracellular bacteria that include major human pathogens, such as Rickettsia prowazekii, the agent of epidemic typhus. Genomic studies by our laboratories demonstrated that these bacteria undergo a paradoxal reductive genomic evolution, where progressive gene loss co-exists with multiplication of genes or repeated genomic fragments. The objectives of the project are: 1) to identify in genomic sequences from all Rickettsia species repeated and common fragments enabling the design of molecular detection tools; 2) to identify in genomic sequences from all Rickettsia species the most variable fragments enabling the design of genotyping tools; 3) to study the gene loss phenomena associated to increase in pathogenicity; and 4) to define genomic citeria enabling the taxonomic classification of these bacteria.

The candidate should have a good back ground in bioinformatics and phylogenetic analysis

Pierre Antoine Pontarotti

Directeur de Recherche CNRS Responsable de l'Equipe Evolution biologique et Modélisation UMR 6632 Université de Aix Marseille/CNRS . http://sites.univ-provence.fr/evol/ Président de l'Association pour l'Etude de l'Evolution Biologique http://sites.univ-provence.fr/aeeb/ we are organizing the 16th Evo-

lutionary Biology Meeting at Marseilles http://-sites.univ-provence.fr/evol-cgr/ Pierre PONTAROTTI <Pierre.Pontarotti@univ-provence.fr>

URhodeIsland PhytoPlanktonPopGenetics

Postdoctoral research associate position : Phytoplankton PopGen- Connecting local, regional and global scales of gene flow in planktonic marine diatoms. The Rynearson lab, at the University of Rhode Island's Graduate School of Oceanography invites applications for a Postdoctoral Research Associate position. The research project combines genetic, physiological and physical oceanographic approaches to investigate gene flow in phytoplankton.

Responsibilities and Duties: The postdoctoral associate will be responsible for conducting laboratory and field research on grant-funded work to examine global patterns and rates of gene flow in planktonic diatoms, and for disseminating results in publications and presentations. The individual will be required to contribute to the functioning of the lab, assist with graduate and undergraduate student mentoring, perform outreach and educational activities and develop future research projects.

Qualifications: Candidates are required to have a Ph.D. degree by January 2011 in Oceanography, Biology (Ecology or Evolution) or a related field. Excellent command of the English language (written and verbal) and quantitative analytical skills are required. Candidates should possess demonstrable experience in the field of ecology or evolution as well as some of the following: conceiving, designing and conducting empirical research; ability to work with and analyze molecular markers; familiarity with genetic and bioinformatics techniques; computer programming; simulations and modeling; quantitative and statistical analyses.

Appointment: The position is for 12-months, commencing January or February, 2012 with the possibility of renewal depending on performance. The successful candidate will receive training in research collaboration, presentation and publication of results, and outreach and mentoring. There will be opportunities for teaching and development of research proposals.

To Apply: Applications must include (1) a maximum 3-page statement of career goals, research vision and interests; (2) curriculum vitae, (3) reprints of relevant publications and (4) names and addresses of three referees willing to write confidential letters of recommendation. All materials should be emailed as a single pdf document to: rynearson at gso.uri.edu with 'Post-Doc Application' in the subject line. Candidates will be selected based on overall excellence, including academic qualifications, letters of recommendation, and prior skills, experience, and research goals that are compatible with the goals of the funded research. The position is compensated through a competitive salary and excellent benefits package. *Closing date*: For full consideration, applications must be received by November 16, 2011 or until the position is filled.Further information: - Rynearson lab: http://www.gso.uri.edu/-users/rynearson - URI Graduate School of Oceanography: http://www.gso.uri.edu/ Tatiana Rynearson <rynearson@gso.uri.edu>

USaoPaulo CnidariaPhylogenetics

Postdoctoral Position at the University of São Paulo (USP)

A 2-year post-doctoral fellowship is available starting in November, 2011 as part of a FAPESP (www.fapesp.br) grant to study micro and macroevolutionary processes underlying diversification in cnidarians. The specific post-doctoral project focuses on the development of novel analytical approaches to incorporate rRNA secondary structures into phylogenetic analysis. The candidate is expected to help mentor and manage an active team of graduate and undergraduate students working on a variety of grant-supported projects. The candidate will also have the opportunity to develop and lead collaborative research project(s) if directly related to cnidarian phylogenetics and/or biodiversity.

Applicants should have a track record of peer-reviewed publications in systematics, molecular biology, RNA secondary structures and cnidarian phylogenetics (emphasis on medusozoans is preferred).

Qualifications:

- A Ph.D. (concluded in the previous 5 years) in biology, genetics, zoology, or related

- Fluency in English (knowledge of Spanish and/or Portuguese is a plus) - Proficiency in at least one computer language

Fellowship: R$ 64.000,00 per year (aprox. US$

40.700,00)- FAPESP fellowships are tax free (see details in http://www.fapesp.br/en/5427 . Deadline is November 06, 2011, or until position is filled. To apply please submit curriculum vitae, statement of research interests (maximum two pages) and two letters of recommendation by email to the lead PI - Prof. Antonio C. Marques, Dept of Zoology IB University of São Paulo, Rua do Matão Trav. 14 no. 101, 05508-900, São Paulo SP, Brazil . For further information please contact Dr. Marques at marques@ib.usp.br. Applications already submitted on previous searches will be reconsidered.

Marcos Barbeitos <msbarbeitos@gmail.com>

USheffield EvolutionaryGenomics

Postdoctoral position: evolutionary and ecological genomics at the University of Sheffield

The laboratory of Patrik Nosil (http://-ebio.colorado.edu/labs/nosil/) will be moving to the University of Sheffield, UK in January 2012. The lab is seeking applicants to fill a postdoctoral position around this same time period. The position is funded by the European Research Council (ERC starter grant) and will require the integration of ecological, evolutionary, and genomic methodologies. The overall project is aimed at using replicated field experiments in herbivorous Timema walking-stick insects to measure selection directly at the genomic level. Specifically, field experiments measuring fitness will be combined with high-throughput genotyping by sequencing to estimate the distribution and intensity of selection on genomic regions in nature. Such experiments will be conducted across multiple taxon-pairs within the genus Timema and will reconstruct how genomes vary as speciation unfolds from beginning to end.

The postdoctoral fellow would be responsible for data analysis of large, population genomic datasets. A Ph.D. is required for the position. Previously demonstrated expertise and facility in the following areas would be beneficial and well-suited to the position: UNIX environment and HPC computing, programming in R, Perl, C, etc., applied probability and hierarchical Bayesian models and existing population genomic models.

The successful applicant would receive salary with benefits for two years and would join a lab that is strongly funded for research on speciation and genomics (i.e., via the aforementioned ERC starter grant, roughly 2.7 million US dollars in funding over the next five years). Additionally, the successful applicant would benefit from collaboration with the Buerkle lab (U. Wyoming) on major analytical and computational developments in evolutionary genomics.

The target start date for the position is early 2012. However, the position will remain open until a suitable applicant is found. Applicants should email their C.V. and a short statement of interest to Patrik Nosil at the following address: patrik.nosil@colorado.edu

Patrik.Nosil@Colorado.EDU

UStAndrews CricketEvolGenomics 2

This is a reminder about an approaching deadline for a 3-year evolutionary genomics postdoc at the University of St Andrews - the full ad is below. Applications should be received by 07 October, 2011 for full consideration, and informal enquiries can be made to Nathan Bailey (nwb3@st-andrews.ac.uk).

A 3-year postdoctoral position in developmental and evolutionary genetics is available in Nathan Baileys lab at the University of St. Andrews.

Project Description: The postdoctoral researcher will work on a NERC-funded project examining genomic and transcriptomic changes underlying rapid evolution in the wild. The project is based at St. Andrews and is a collaboration with Michael Ritchie (St. Andrews, UK) and Marlene Zuk (UC Riverside, USA). A contemporary morphological mutation eliminates sound-producing structures on male cricket wings in a wild population of the field cricket Teleogryllus oceanicus. The primary role of the postdoc will be to perform mapping crosses, genome and transcriptome sequencing, and RAD-mapping with three main goals: (1) identify markers associated with the mutation and construct a linkage map to pinpoint the causative mutation(s), (2) identify candidate genes associated with the mutant morphology, and (3) examine the cascade of transcriptomic changes resulting from the mutation(s).

Qualifications: A PhD (or soon to be awarded) in a relevant field is required. The ideal candidate will have molecular genetics experience and a strong bioinformatics background with evidence of suitable programming and analytical skills. A strong publication record for the applicants career stage and a commitment to dissemination of results are required. A significant portion

of the postdocs role will be to organize day-to-day laboratory activities related to the project, work with technical staff at St. Andrews, and liaise with the NBAF sequencing facilities at the Universities of Edinburgh and Liverpool, so the candidate should also possess excellent interpersonal skills. The position is open to candidates of any nationality.

Career Development: The postdoc will be encouraged to develop additional lines of research suited to his/her interests. The project is collaborative, so there is scope for interactions with the co-PIs plus travel to collaborating laboratories.

Informal Enquiries: Please contact Nathan Bailey (nwb3@st-andrews.ac.uk) with any informal enquiries. Further information about the lab is available at: www.flexiblephenotype.org . Application: Please apply through the University of St. Andrews HR website: https://www.vacancies.st-andrews.ac.uk/welcome.aspx and search for job reference number ML1042. Applications should include a cover letter, CV, a brief (~1 page) statement detailing your research interests and career goals, and two letters of reference.

Closing date: 07 October 2011

Nathan Bailey <nwb3@st-andrews.ac.uk>

UVirginia Evolution Ecology Physiology

Postdoctoral Researcher in Evolutionary Ecology and Physiology

The Department of Biology at the University of Virginia invites candidates for a post-doctoral Research Associate in the lab of Dr. Robert Cox. (http://-faculty.virginia.edu/coxlab/Cox_Lab/Home.html).

The focus of this research position will be tailored to the skills and expertise of the successful applicant, but will ultimately complement the lab's interests in sexual conflict, life-history evolution, vertebrate endocrinology, and evolutionary physiology. The post-doc will work closely with the PI and lab personnel to design and lead research in the field and lab, prepare grant proposals and manuscripts, mentor undergraduate and graduate students, and contribute to a vibrant and collaborative group of ecologists and evolutionary biologists at UVA (http://dept.biology.virginia.edu/eebio/). A Ph.D. in Biology or a related discipline is required, with preference given to candidates with a strong background in evolutionary biology. Candidates with expertise in molecular genetics and genomics are encouraged to apply, as the lab seeks to connect emerging questions in evolutionary physiology with existing departmental strengths in these areas. The ideal candidate will demonstrate the ability to integrate across biological disciplines and use this appointment as an opportunity to develop and pursue novel and exciting questions.

Application Procedure: To apply, please submit a Candidate Profile including (1) cover letter detailing your research interests, (2) curriculum vitae, and (3) contact information for three references. Candidate Profiles should be submitted online through Jobs@UVA (https://jobs.virginia.edu). Search for posting number 0608675.

Review of applications will begin October 28, 2011. However, the position will remain open until filled. Ideal start date is January 2012, but timing is flexible and earlier or later start dates can be arranged. This is a one-year appointment, however appointment may be renewed for an additional two, one-year increments, contingent upon available funding and satisfactory performance.

Questions regarding the position should be directed to Robert Cox: rmc3u@virginia.edu

Questions regarding the Candidate Profile process or Jobs@UVA should be directed to Mary Liberman: ml5ac@virginia.edu

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, Minorities, Veterans and Persons with Disabilities are encouraged to apply.

– Robert M. Cox Assistant Professor Department of Biology University of Virginia P.O. Box 400328 Charlottesville, VA 22904-4328 Phone: 434-982-1987 http:/-/faculty.virginia.edu/coxlab/ cox.robert.m@gmail.com

UWyoming ComputationalGenomics

Postdoctoral Position in Computational Comparative Genomics

A postdoctoral position is immediately available in the Liberles Group at University of Wyoming in the field of computational comparative genomics. The project

involves developing new models to detect positive selection and for the evolution of gene duplicates and to apply new and existing models to a large Chordate comparative genomic dataset. The successful candidate will have strong skills in programming coupled to experience with databases and with genomic sequence data and/or gene family analysis. The position is grant funded and includes a competitive salary and benefits package. University of Wyoming is located in Laramie, WY, 2 hours north of Denver in the Rocky Mountains. It is an ideal location for those with interests in outdoor activities in the mountains. To apply, please send a CV, letter of motivation, and contact information for three references to liberles@uwyo.edu. Review of applications will continue until the position is filled.

Required disclaimer written by the University of Wyoming Office of Diversity: The University of Wyoming is committed to diversity and endorses principles of affirmative action. We acknowledge that diversity enriches and sustains our scholarship and promotes equal access to our educational mission. We seek and welcome applications from individuals of all backgrounds, experiences, and perspectives.

David Liberles <liberles@uwyo.edu>

UWyoming PlantEvolutionaryGenetics

Agroecological annotation of gene function and network characterization in Brassica rapa. One postdoctoral position in Evolutionary Genetics is available to study in the lab of Cynthia Weinig at the University of Wyoming. The position is associated with a five-year multi-investigator NSF project that includes collaborators from Dartmouth College, Kansas State University, and University of California-Davis. The overarching aims of this project are to 1) annotate shade-avoidance genes using diverse genotypes and agroecologically relevant conditions in order to understand variability in yield, and 2) elucidate the shade-avoidance network via computational methods that predict plant architecture from complex genotypes and that are applicable to other traits. These objectives are highly complementary in that phenotypic and environmental data collected to annotate gene function can be used with genetic regulatory information as inputs to develop systems biology models of shade avoidance.

Preference will be given to candidates with a strong background in evolutionary genetics, particularly quantitative genetics, and candidates with either molecular genetic or modeling experience. The position offers opportunities to learn new measurement and analytical techniques in alternative disciplines through collaboration with other labs. Activities of the different labs will include function-value trait characterization, quantitative-genetic analysis and QTL mapping in RILs and natural accessions of B. rapa, fine-scale mapping and transgenic rescue to clone QTL, RNAseq in lab and field settings, and development and dissemination of B. rapa genetic resources for enhancing K12 and undergraduate education. In addition, the position requires data analysis, publication of manuscripts and participation in workshops on career development. Applicants should send a Curriculum Vitae, a brief letter stating specific research interests, research accomplishments, and future research objectives as well as the names and contact information for three professional references as a single pdf file to Cynthia Weinig (cweinig@uwyo.edu). A Ph.D. is required by the time the successful applicants start a position. Review of applications will begin Nov. 1 and continue until suitable candidates are identified. The start date is negotiable and salary will be competitive with full benefits.

The University of Wyoming is committed to diversity and endorses principles of affirmative action. We acknowledge that diversity enriches and sustains our scholarship and promotes equal access to our educational mission. We seek and welcome applications from individuals of all backgrounds, experiences, and perspectives.

Cynthia Weinig Associate Professor Departments of Botany and Molecular Biology 1000 E. University Ave, 3165 Laramie WY, 82071 Email: cweinig@uwyo.edu TEL: 307 766-6378 FAX: 307 766-2851

Cynthia Weinig <cweinig@uwyo.edu>

Vienna thermal adaptation

Postdoctoral position: genetics of thermal adaptation in Drosophila

A postdoctoral position is available at the Institute of Population Genetics, Vetmeduni Vienna (Austria). The research focus of the Institute of Population Genetics is on understanding the genetics of adaptation. This central question in evolutionary biology is being tackled using up-to-date methods and a variety of approaches,

including experimental evolution, quantitative genetics, examination of life history traits, Evo-Devo, empirical population genetics, bioinformatics and statistics.

The successful candidate will have access to an excellent data set on thermal adaptation in Drosophila including: 1) Genome-wide polymorphism data from laboratory selection experiments exposing Drosophila to different temperature regimes. 2) Gene expression data of Drosophila populations evolved to different temperatures in the laboratory 3) GWAS data for traits related to thermal adaptation 4) Genome-wide polymorphism data for natural populations from environments with different temperatures

We are searching for a candidate with a keen interest to understand thermal adaptation in Drosophila by combining information from these proprietary data sets. Given the scale of the experiment, sound statistical knowledge is essential and programming skills are beneficial.

In recent years, Vienna has developed into one of the leading centers in evolutionary biology (http://-/www.evolvienna.at). In addition, Vienna is home to the VDRC Stock Center, and a high-profile Drosophila research community, most notably at the IMP (http://www.imp.ac.at/) and the IMBA (http://-/www.imba.oeaw.ac.at/). In addition to a stimulating scientific environment, Vienna also offers an extraordinarily high quality of life. Affordable housing, excellent public transport, great restaurants, a range of international schools, two operas, two music centers, many theaters and museums in combination with a pleasant climate make Vienna one of the most attractive cities in Europe.

The position is available from the beginning of 2012. The application should be emailed to christian.schloetterer@vetmeduni.ac.at as a single pdf containing CV, list of publications, a statement of research interests, and the names of three references with contact details. While the search will continue until the position is filled, applications should be received by October 28, 2011 to ensure full consideration.

Christian Schlötterer Institut für Populationsgenetik Veterinärmedizinische Universität Wien Josef Baumann Gasse 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

WayneStateU GenomicsData

Job Title: Postdoctoral fellow

Location: Center for Molecular Medicine and Genetics (CMMG), Wayne State University School of Medicine. The CMMG is a unique interdisciplinary unit within Wayne State Universityâs School of Medicine. The center is built around modern molecular genetics, and comprises basic researchers, physician-scientists, computational scientists, and genetic counselors. For more information please see http://cmmg.biosci.wayne.edu/ . Description: Full-time position. We are seeking a postdoctoral fellow or research analyst who can take the lead on analyzing genomic data from multiple interrelated projects with the potential to yield multiple high-impact papers. Position would be jointly funded by two PIs with an extensive history of collaboration (Wildman and Uddin); successful applicants would work closely with both PIs.

Job Functions: â Develop and implement statistically robust, systems biology approaches to analyzing gene expression and DNA methylation microarray data.

â Develop and implement statistical analyses of genomic data integrated across multiple levels (i.e. miRNA expression, gene expression, DNA methylation and DNA sequence variation).

â Analyze next generation sequencing data and compile the results from multiple species for evolutionary analysis.

â Draft manuscripts in part (i.e. methods, results) or whole, as the project requires.

â Provide oral and written progress updates to PIs and other lab members.

Qualifications: PhD in biostatistics or genomics required. Familiarity with analyzing genomic data (including gene expression and methylation microarray, next generation and exome sequencing) as well as expertise in evolutionary genetic and genomic analysis preferred. Experience with and facility using R, Bioconductor required; knowledge of SAS a bonus. Strong written and oral communication skills a must. Salary commensurate with experience.

Contact: Please send CV, including the contact information for three references, to Richelo Soliven: rsoliven@wayne.edu

“Soliven, Richelo” <rsolive@med.wayne.edu>

WorkshopsCourses

CzechRepublic Genomics Jan8-25

2012 Workshop on Genomics, ÄeskÃ½ Krumlov, Czech Republic

Core Workshop: 8 - 21 January 2012 Advanced Topics Session: 23 - 25 January 2012

Application Deadline: 15 November is the preferred application deadline, after which time people will be admitted to the course following review of applications by the admissions committee. However, later applications will certainly be accepted.

Registration Fee: 1800 USD. Fee includes opening reception and mid- course dinner, but does not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels.

For general Workshop information: http://evomics.org Direct Workshop Link: http://evomics.org/-workshops/worksho...cesky-krumlov/ Direct Advanced Topic Link: http://evomics.org/workshops/advanced-topics/ Co-directors: Scott A. Handley, Naiara RodrÃ'guez-Ezpeleta and Karin Rengefors

The Workshop on Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of genomics focusing primarily on the analysis of next-generation sequencing data. Faculty are chosen exclusively for their effectiveness in teaching theory and practice. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students. Scientists with strong interests in the uses of short-read sequence data, analytical methods, comparative structure of genomes, using next- gen sequence data to study non-model organisms, SNP detection and analysis, genome visualization tools and related areas are encouraged to apply for admission. Lectures and computer laboratories total ˜90 hours of scheduled instruction. Admission is limited and highly competitive, with admissions decisions determined by an international committee. No programming experience is required.

Topics to be covered include: - Sequencing technologies: short-read sequencing technologies of various types - Manipulation of sequence data using the command-line and quality assessment and control techniques - Assembly and alignment: basic analyses in de novo and re- sequencing studies - The use of next-generation sequence data to study non-model organisms - RAD (Restriction site Associated DNA) sequence analysis - Genome characterization: gene content; genome structure; SNPs - Assigning sequences to taxonomic groups in metagenomic studies - Transcriptome quantification and mapping for expression and gene structure elucidation - The use of frameworks (Galaxy) for genome data comprehension and analysis - Evolutionary genomics - Population genomics Whatâs new this year? - New Website: Updated design, content and application forms can be found at http://evomics.org. Workshop schedules as well as other detailed information can be found at this site which is frequently updated.

- Advanced Topic Sessions: In addition to the core two-

week Workshop curriculum we will be organizing 2-3 day Advanced Topic Sessions on Programming and on the use R/Bioconductor for genomic analysis.

- Scholarships: A limited number of scholarships will be provided to help off-set the costs of participating in the Workshop. More details about these opportunities will be made available very soon.

- Amazon Web Services Support: We have been awarded a grant to provide cloud computing support using Amazon Web Services. Every participant will be provided with access during their participation in the Workshop. Offered in partnership with the Graduate Research School in Genomic Ecology (GENECO) http://www.geneco.se/ For more information and online application see the Workshop web site - http://-evomics.org handley.scott@gmail.com

London SystematicsAssociationLecture 5thOct

The Systematics Association Sir Julian Huxley lecture

Taxonomy in the 21st century

Prof. Charles Godfray, University of Oxford.

The Linnean Society, Burlington House, Piccadilly, London Wednesday 5th October 2011, 6 pm

The meeting is open to visitors. Wine will be served after the lecture to members and guests. Please advertise this lecture as widely as you can.

Abstract: Taxonomy is one of the oldest branches of biology and in a time of major loss of biodiversity of critical importance today. But the subject currently faces great threats and as well as great opportunities - many tasks that traditionally required taxonomic expertise can now be performed by non-specialists using modern molecular techniques, and the users of taxonomy expect information to be made available seamlessly over the web. In the lecture I'll explore some of the major challenges facing the subject, drawing on the recent NERC-sponsored report "Developing a National Strategy in Taxonomy & Systematics". I shall argue that the future of taxonomy and systematics is assured, as long as the subject takes the lead in redefining itself as a modern information science.

– The Wellcome Trust Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

James Cotton <james.cotton@sanger.ac.uk>

Montreal HumanPopGenet Oct11

ICHG Satellite Workshop

Populations of the New World: impact

of founder effects on health

http://ichg2011popworkshop.yolasite.com/

Tuesday, October 11th, 2011, 8:00 am to 4:00 pm

Room 513CD, Montreal Convention Center

PROGRAM & SPEAKERS

1st Session: Genetics and genealogies

Marie?\Hélène Roy?\Gagnon (U. of Montreal)

& Helene Vézina (U. of Quebec (Chicoutimi))

Genomic and genealogical investigation of the French Canadian

founder population structure

Philip Awadalla (U. of Montreal)

Interrogating the Genomic and Environmental Control Points of

Chronic Disease in a Prospective Aging Quebec Cohort ?\ CARTaGENE

Agnar Helgason (deCODE Genetics)

Using IBD segments to study admixture and population structure in

Iceland

2nd Session: Amerindian Health Issues

David Reich (Harvard U.) The Genetic History of Native Americans

Robert Hanson (NIDDK, NIH) Genetic Studies of Diabetes Mellitus in Pima Indians

Predicting risk for sudden death: The power of clinical and basic

Laura Arbour (U. of British Columbia)

science with communities

3rd Session: Admixtures

Nelson B. Freimer (UCLA) Mapping Disease genes in Latin American founder populations

Carlos D. Bustamante (Stanford U.) Population genetics and genomics of admixture in the Americas

Rick Kittles (U. of Chicago) Genetic Histories of Africans in the New World

John Novembre (UCLA) Admixture and Recombination in African?\Americans

4th Session: Selection and adaptation

Anna Di Rienzo (U. of Chicago) Adaptations to local environments in Native Americans

David Goldstein (Duke U.) Identifying pathogenic mutations in whole genome sequence data

Meeting organizers: Damian Labuda & Guy Rouleau, U.of Montreal

Meeting secretary: Ron Lafreniere

PRE?\REGISTRATION (free) required - TO REGISTER send email to RON LAFRENIERE AT RON.RMGA@GMAIL.COM

No registration to ICHG/ASHGM required

Dr Damian Labuda <damian.labuda@umontreal.ca>

Paris EvolutionaryGLMs Nov21-24

The laboratory of Ecology & Evolution (UMR7625 Paris, France) and the Research School Ecology & Evolution of the Centre for Ecological and Evolutionary Studies (Groningen, Netherlands) jointly organize a PhD level course on Generalized Linear Models and Mixed Models, which are essential statistical tools in evolutionary biology. The course also provides an introduction to the use of the statistical freeware R.

Aims Ecological and evolutionary data are often complex, with many interacting variables. The most basic tools to analyse such data are “generalized linear models”, where generalized means that the techniques can be used for many statistical distributions. Generalized linear models are therefore used to analyse count data, proportions, survival times, etcetera. The models are versatile and allow you to investigate the relevance of many explanatory variables, which can either be categorical or continuous variables. When the technique is extended with the estimation of variances of random effects, one obtains mixed models. An example is the famous “animal model”, essential when investigating additive genetic variances and heritabilities.

In this course, students are introduced to modelling data in general, and to model selection among glm’s and mixed models specifically. The course consists of lectures, computer exercises in which your own data can be used and discussion.

Computer exercises are used to make all participants acquainted with R statistical software. Everyone is expected to bring a dataset to be analysed. In order to assure that all participants have easy access to computer facilities, it is advised to bring your own laptop.

This year the course will be held from 21 - 24 November 2011 at the CEREEP-ECOTRON station in Saint-Pierre-les-Nemours (± 1 hour from Paris) in France.

More information and instructions for registration can be found at: http://www.rug.nl/fmns-research/-rsee/phdcourses/glmecologists?lang=en As an afterthought, we’d like to let you know that we intend to compensate for the CO2 emissions caused by travelling to the meeting and the meeting itself and we plan to do this by planting trees at the station. Participants can contribute to this.

Course lecturers: Tom Van Dooren (CNRS, UMR7625 Ecology and Evolution, Paris, France) Wolf Mooij (NIOO, Wageningen, Netherlands) Thomas Tully (IUFM, UMR7625 Ecology and Evolution, Paris, France) Francois Mallard (ENS, UMR7625 Ecology and Evolution, Paris, France)

vandoore@biologie.ens.fr

Portugal BioinformaticsStatistics Oct24-28

Deadline Oct 17th *BFB11 Biostatistical Foundations in Bioinformatics* Fully based in *R*. this course revisits Statistics on subjects that matter for Bioinformatics. From Probability to HMMs, for example. Course dates: Oct 24th and 28th 2011 http://gtpb.igc.gulbenkian.pt/bicourses/-BFB11 Pedro Fernandes Instituto Gulbenkian de Ciência Apartado 14 2781-901 OEIRAS Tel +351 21 4407912 http://gtpb.igc.gulbenkian.pt Pedro Fernandes <pfern@igc.gulbenkian.pt>

Portugal GenomicsBioinformatics Nov7-9

Deadline Oct 17th *BIG11 Bioinformatics for Integrative Genomics* Integration, analysis and visualization of genomics data Course dates: Nov 7th, 8th and 9th 2011 http://gtpb.igc.gulbenkian.pt/bicourses/BIG11 – Pedro Fernandes Instituto Gulbenkian de Ciência Apartado 14 2781-901 OEIRAS Tel +351 21 4407912 http://gtpb.igc.gulbenkian.pt Pedro Fernandes <pfern@igc.gulbenkian.pt>

SanAntonio AnthroGenomics Jan9-10

AGAR: Application of Genomics to Anthropological Research

Dates: Monday, January 9th - Tuesday, January 10th, 2012 Location: The Texas Biomedical Research Institute, San Antonio, Texas Organizers: The American Association of Anthropological Genetics (AAAG) Education Committee in collaboration with the Texas Biomedical Research Institute< http://txbiomed.org/ >(details below)

The Application of Genomics to Anthropological Research (AGAR) Workshop aims to provide students and scholars interested in evolutionary anthropology with a thorough introduction into the theory and application of state-of-the-art genomic research. The workshop will be led by experts from across the field of human genomics, who will instruct and interact with participants in both semi-formal and casual settings. Specifically, the workshop will comprise (1) keynote lectures from leaders in anthropological genomics, (2) formal presentations describing general as well as anthropology-specific applications of genomic tools, (3) Q&A sessions that address the practical issues of genomic research, (4) informal chalk-talk sessions in which the participants can discuss their own projects, and (5) social events to foster contacts and future collaborations. The goal of this event is to provide anthropologists previously unfamiliar with the field of genomics sufficient knowledge to apply (and at a minimum to understand the application of) genomic tools to their future research.

Please visit http://www.anthgen.org/AGAR for more information and registration.

â Graciela S. Cabana, Ph.D. â Assistant Professor of Anthropology â Director, Molecular Anthropology Laboratories â University of Tennessee â 250 South Stadium Hall â Knoxville, Tennessee 37996-0720 â ph | 865.974.6989 â fx | 865.974.2686 â http://web.utk.edu/~anthrop/faculty/cabana â â

gcabana <gcabana@utk.edu>

Turku Finland TheoryOfSpeciation Aug19-26

The Helsinki Summer School on Mathematical Ecology and Evolution 2012: THEORY OF SPECIATION

Dear Colleagues,

We are pleased to invite students and young researchers to the summer school Theory of Speciation to be held between 19 and 26 August 2012 in Turku, Finland. The core program of the school consists of five series of lectures,

Sergey Gavrilets: Population genetics of speciation Nick Barton: Multilocus models of speciation Sander van Doorn: The role of sexual selection in speciation Eva Kisdi: The ecology of speciation Daniel Bolnick: Theory and empirical speciation research

All young researchers working in mathematical ecology/evolution can apply from all countries, especially from Europe and the Mediterranean. The school is aimed at PhD students of biology with sufficient theoretical background and at PhD students of mathematics with interest in ecology and evolution, but we also welcome advanced undergraduates and postdocs. The deadline for applications is 15 April 2012. There is no fee for registration.

For more details and application, see http://wiki.helsinki.fi/display/huippu/mathbio2012 . Eva Kisdi and Tadeas Priklopil

kisdi@mappi.helsinki.fi

UColoradoBoulder BiodiversityInformatics Jun24-30

Call for Applications: VertNet Biodiversity Informatics Training Workshop

We are excited to announce a call for applications for VertNets first biodiversity informatics workshop. Please share this information with your colleagues, students, friends, and anyone else whom you believe would be interested in this opportunity.

[image: Univ. of Colo Boulder Image]The *Biodiversity Informatics Training Workshop (BITW), June 24-30, 2012*, will provide participants with the training and experience to work with primary biodiversity data sources and new tools necessary to become proficient in biodiversity informatics and conduct biodiversity research. Led by experienced informaticists and researchers, the BITW will emphasize the use and analysis of aggregated biodiversity data from VertNet, and other sources, for a wide of variety of research.

During the course of five days, participants will work closely with trainers to address compelling biodiversity research questions, focusing on the entire scope of a research project, from initial data acquisition to tools for data evaluation to analysis and finally, project dissemination and outreach. The workshop will include large and small group exercises on a common curriculum as well as the opportunity for participants to discuss and explore individual research questions with trainers. During the workshop, participants will explore and utilize:

- Data sources for discovery, acquisition, data standards, database creation and organization (e.g., VertNet, GBIF, Darwin Core) - Organization, analysis, work flow, and data improvement tools - Biodiversity measurement and analyses techniques (e.g., species richness, turnover) - Species distribution modeling approaches - Dissemination, education and outreach mechanisms (e.g., citizen science)

Who should attend? Advanced undergraduates, recent post baccalaureates, and early-career graduate students currently working, or interested in a career in a biodiversity related field, including, but not limited to, ecology, conservation, geography, biology, environmental science, computer science, and library science.

Workshop Selection and Support Acceptance to the BITW is a competitive process and the workshop is limited to 25 participants. *All applications materials and recommendations must be received by 11:59pm PT on January 10, 2012 for consideration**.* Accepted participants will be notified in March 2012. Individuals selected for participation will receive support to cover reasonable costs for transportation, accommodations, and per diem. Accommodations will be provided on the University of Colorado Boulder (CU) campus.

*Application materials are available at http://-vertnet.org/about/BITW.php . Submit application materials online (**http://vertnet.org/about/-BITW.php**) or send all completed materials and one letter of recommendation to dbloom@vertnet.org or David Bloom, VertNet Coordinator, Museum of Vertebrate Zoology, UCB, 3101 Valley Life Sciences Building, Berkeley, CA 94720.*

Carol L. Spencer, Ph.D. Staff Curator of Herpetology & Researcher Museum of Vertebrate Zoology 3101 Valley Life Sciences Building University of California, Berkeley, CA, USA 94720-3160 atrox10@gmail.com atrox@berkeley.edu TEL: 510-643-5778 /FAX: 510-643-8238

http://www.herpnet.org http://mvz.berkeley.edu/ http://www.vertnet.org Carol Spencer <atrox@berkeley.edu>

ULisboa Bioinformatics Nov21-25

Dear all,

I would like to call your attention to the workshop that we are organizing in Lisbon:

Practical workshop: Bioinformatics and Systems Modelling

November 21st to 25th 2011

Faculty of Sciences, University of Lisboa, Portugal

Deadline for registration: October 30th 2011

Course aim

The technological advances of the last decade have allowed for the easy generation of massive amounts of data on the components, interactions and organization of biological systems, heralding a new era for Systems Biology. This course aims to give graduate and post-graduate students with a background in biological sciences, a hands-on perspective on how to obtain, in-

tegrate and analyze complex data sets from multiple experimental sources using inter disciplinary tools and discuss the challenges that still have to be met in the future. Topics include basic and intermediate concepts on databases and data-mining, network analysis, systems modelling and prediction, with an emphasis on gene expression, protein interaction and signalling. *Target audience*

MSc graduates, PhD students and junior post-doctoral fellows in biochemical/biological/biomedical sciences wishing to expand their knowledge on bioinformatics, modelling and network analysis for systems biology. *Course info, fees and registration:*

This course is an elective within the Advanced Training Course Program for 1st year PhD students in Biochemistry of the Department of Chemistry & Biochemistry (Bologna 3rd cycle) and is part of a workshop series within the post-graduate programme in Molecular and Cellular Biology of the Epithelium in Health and Disease (more information on: http://www.dqb.fc.ul.pt).

The course is open to national and international students on a first come, first serve basis, to a maximum of 20 participants. Credits for external (Bologna) PhD given upon request.

Registration fee: 200 euros (350 euros for participants attending 2 workshops).

Andreia J. Amaral, PhD BioFIG - Center for Biodiversity, Functional and Integrative Genomics Instituto de Medicina Molecular University of Lisbon Tel: +352 217500000 (ext. office: 28253) email:andreiaamaral@fm.ul.pt ; andreiaamaral@fc.ul.pt

andreia.fonseca@gmail.com

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.