
E v o l D i r

April 1, 2013

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

Foreword

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

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

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



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Aberystwyth MarineEvolution May8-10

10th Marine Biological Association Postgraduate Conference

ABSTRACT DEADLINE EXTENDED: FRIDAY
22ND MARCH 2013

Dear colleagues,

The abstract submission deadline for the 10th Marine Biological Association Postgraduate Conference is

THIS FRIDAY 22nd March 2013. This year, the conference is to be held at Aberystwyth University, Wales, from 8-10th May 2013.

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

A fundamental theme of the conference will be the evolution and conservation of marine biodiversity.

Registration is just £70 (including delegate fee, refreshments during the conference, conference dinner, tour of the National Library of Wales, and an optional field

trip). There is plenty of affordable accommodation in the town and reduced travel tickets to Aberystwyth are available when booking in advance.

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

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

Extended abstract deadline - 22nd March 2013
 Extended registration deadline - 5th April 2013

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

We look forward to welcoming you to Aberystwyth in May!

hayley@thewatsons.karoo.co.uk

Beltsville MD FungalEvolution Apr26-28

34th Annual Mid-Atlantic States Mycology Conference
 Friday, April 26 to Sunday, April 28, 2013.

Please visit us at: <https://sites.google.com/site/masmc2013a/> MASMC 2013 is hosted by the Systematic Mycology & Microbiology Laboratory, USDA-ARS, Beltsville, Maryland.

The Middle Atlantic States Mycology Conference has taken place every spring since 1979. MASMC provides new students, postdocs, and mycologists the opportunity to present research findings and obtain inputs from learned colleagues, in a less formal venue than larger national and international meetings.

Keynote Speaker: Dr. Marc Cubeta, North Carolina State University "Min Fulbright sabbatsår med Rhizoctonia svampar och orkidéer" (My Fulbright sabbatical with Rhizoctonia fungi and orchids)

Events include oral presentations, poster session, morning and afternoon coffee breaks, guided tour of the U.S. National Fungus Collections, lunch, student awards presentation, keynote talk by Marc Cubeta, Saturday evening social (includes dinner and drinks) and Sunday

morning fungal foray.

Advanced registration & abstract submission deadline: April 12, 2013.

Advanced registration is \$60, or \$40 for students and post-docs. For more information and to register for the conference, go to: <https://sites.google.com/site/masmc2013a/> MASMC 2013 Organizing Committee Priscila Chaverri (pchaverr@umd.edu) Jo Anne Crouch (joanne.crouch@ars.usda.gov) Steve Rehner (stephen.rehner@ars.usda.gov) Amy Rossman (amy.rossman@ars.usda.gov)

JoAnne.Crouch@ARS.USDA.GOV

BuenosAires PlantEvolution Nov20-23

32nd New Phytologist Symposium Plant interactions with other organisms: Molecules, ecology and evolution

Universidad Católica, Puerto Madero Campus, Buenos Aires, Argentina 20-23 November 2013

The goal of this symposium is to bring together researchers working in a wide range of disciplines in plant biology, ecology and evolution to explore how plants interact with other organisms.

The central objective is to discuss and integrate information from different approaches and perspectives in order to create a synthetic framework for understanding these interactions. Our hope is to have a diverse and dynamic group of scientists, who are willing to step out of their disciplinary comfort zone and engage in an effort to participate in discussions spanning the range from molecular approaches to ecosystem implications. The symposium will take place over three days at the Universidad Católica, Puerto Madero Campus, Buenos Aires, Argentina. Twenty-two invited talks will form the basis of discussion at what will be a relatively small meeting (up to 120 participants). There will be a poster session and conference dinner for all delegates to attend.

Confirmed speakers Marcelo Aizen Universidad Nacional del Comahue, Argentina Amy Austin University of Buenos Aires and IFEVA, Argentina Ian Baldwin MPI for Chemical Ecology, Jena, Germany Carlos Ballaré University of Buenos Aires and IFEVA, Argentina Richard Bardgett Lancaster University, UK Joy

Bergelson University of Chicago, USA Elizabeth Borer University of Minnesota, USA Ray Callaway University of Montana, USA Marcel Dicke Wageningen University, the Netherlands Edward Farmer University of Lausanne, Switzerland Martin Heil CINVESTAV, Guanajuato, Mexico Richard Karban UC Davis, USA Toby Kiers Vrije Universiteit, Amsterdam, the Netherlands Anna-Liisa Laine University of Helsinki, Finland Steven Lindow UC Berkeley, USA Richard Lindroth Cornell University, NY, USA Ariel Novoplansky The Hebrew University of Jerusalem, Israel Ralph Panstruga RWTH Aachen University, Germany Ronald Pierik University of Utrecht, the Netherlands Corné Pieterse University of Utrecht, the Netherlands Natalia Requena Karlsruhe Institute of Technology, Germany Gary Stacey University of Missouri Ted Turlings University of Neuchâtel, Switzerland

<http://www.newphytologist.org/symposiums/view/2>
Anna-Liisa Laine <anna-liisa.laine@helsinki.fi>

Cambridge UK GMOD Community Meeting Apr5-6

Dear all,

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

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

Details of the meeting and links to the registration form are on the GMOD wiki at <http://gmod.org/wiki/-April.2013.GMOD.meeting>. If you are interested in presenting at the meeting, or would like to suggest a topic for the agenda, please email the GMOD helpdesk at help@gmod.org.

Additionally, the GMOD community survey is still open, so if you use, develop, administer, provide, or otherwise come into contact with GMOD and its components, we would love to hear your thoughts. The survey should take no more than ten minutes, is completely anonymous, and you have the chance to win a genome profile from 23andMe (or an Amazon voucher) on completion. The survey results will be reviewed at the April meeting and will be used to help GMOD to

better serve its community and direct future development of the project. The survey can be found at <http://gmod.org/survey.html>. Thank you all for your attention. If you have any questions, please feel free to contact me at amelia.ireland@gmod.org.

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

Chicago SMBE2013 Jul7-11 BalancingSelection

Dear evoldir members,

We would like to draw your attention to a symposium on 'Balancing selection and the maintenance of genetic polymorphism' as part of the 2013 conference of the Society for Molecular Biology and Evolution (SMBE). We welcome abstract submissions for both empirical evidence of balancing selection and the lack thereof as well as theoretical and methodological advances.

Invited speakers:

Deborah Charlesworth (University of Edinburgh)

Dmitri Petrov (Stanford University)

Rasmus Nielsen (University of California, Berkeley)

Symposium description: Balancing selection and the maintenance of genetic polymorphism

Genetic polymorphism is one of the cornerstones of evolution and decades of research have provided intriguing insights into the extent of polymorphism in natural populations, including humans. With the onset of new sequencing technologies and computational tools, this field has again gained momentum. Balancing selection was initially proposed as one of the key mechanisms for maintaining genetic polymorphism over evolutionary time scales. While some empirical examples have been reported, the generality of balancing selection and its actual importance in natural populations is still heavily debated. Here we want to pick up this discussion in the light of the unprecedented availability of population genetic data from model and non-model species as well as evaluate methodological advances for the detection of balancing selection.

The conference takes place in Chicago July 7-11. For more information and registration please visit <http://www.smb2013.org> Organizers: Tobias Lenz & Shamil Sunyaev Brigham and Women's Hospital / Harvard

Medical School –

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Chicago SMBE2013 Jul7-11 FunctionalEvolution

Dear evoldir members,

We excited to announce the symposium, “Molecular Mechanisms of Functional Evolution,” organized as part of the 2013 Annual Meeting of the Society for Molecular Biology and Evolution (SMBE). We are currently accepting abstracts for contributed talks (15min). Abstract submissions are open until March 18th, and travel awards are available to support graduate and post-doc travel to the conference. Please see www.smb2013.org < <http://www.smb2013.org/> > for additional information and for registration.

Invited speakers include:

- Mark Rausher (Dept. of Biology, Duke University)
- Jesse Bloom (Fred Hutchinson Cancer Research Center)
- Virginie Orgogozo (Institut Jacques Monod, Université Paris Diderot)
- Jay Storz (School of Biological Sciences, University of Nebraska)
- Dan Tawfik (Department of Biological Chemistry, The Weizmann institute of Science)
- Günter Wagner (Dept. of Ecology and Evolutionary Biology & Yale Systems Biology Institute, Yale University)

Summary:

A major challenge in biology is to determine the genetic changes and underlying mechanisms that caused the evolution of novel molecular phenotypes, developmental pathways, and morphological traits. An emerging approach seeks to achieve this goal by integrating the conceptual and analytical methods of evolutionary bi-

ology with the experimental tools of molecular biology and biochemistry to infer the mechanisms of evolutionary changes in function and phenotype. Although this 'functional synthesis' is transforming our understanding of the mechanisms of evolution and is attracting a growing number of devotees, it has not been the subject of symposia at previous SMBE meetings. This symposium will highlight the power of the functional synthesis to generate causal explanations of evolution by featuring speakers using experimental methods (such as ancestral gene resurrection and detailed explorations of the biochemical effects of key alleles in locally adapted populations) to directly test evolutionary hypothesis from the across the tree of life. The symposium will also explore future directions for the field, such as the kinds of evidence needed to support mechanistic hypothesis of evolution, the proper roles of sequence analysis and experiment in evolutionary inference, and opportunities to integration the synthesis with other areas of biology.

For more details, please do not hesitate to contact us.

Vinny Lynch, vjlynch@chicago.edu Joe Thornton, joet1@uchicago.edu

vjlynch@uchicago.edu

Chicago SMBE2013 Jul7-11 JunkDNA

Dear All,

As a part of the is year SMBE meeting, I'm happy to announce the symposium “Where did the junk go”? We are currently accepting abstracts for contributed talks (15min). Abstract submissions are open until March 18th, and travel awards are available to support graduate and post-doc travel to the conference. Please check the meeting web site <http://www.smb2013.org/> for additional information and registration. For any inquires related to the symposium please contact Wojciech Makalowski at wojmak@uni-muenster.de. I expect very exciting discussion on this hot topic.

Sincerely,

Wojciech Maka©©owski, Ph.D. Professor and Director Institute of Bioinformatics University of Muenster Niels Stensen Strasse 14 48149 Muenster, Germany

On sabbatical at the Department of Medical Genome Sciences University of Tokyo

Where did “junk” go?

Late Susumu Ohno once said “So much junk DNA in our genome” and the phrase junk DNA was born. For a long time mainstream scientists avoided these parts of the genomes. However, over the years the picture slowly started to appear suggesting that the junk DNA hides a genomic treasure. With the completion of the current ENCODE project junk DNA effectively disappeared because there’s no useless DNA in the genomes no more. This symposium will discuss the current understanding of these not so far ago obscure areas of the genomes with the special attention to transposable elements activities and their evolutionary consequences. The integral part of the symposium will be general discussion of Ohno’s idea and its place in today’s biology.

Invited speakers include:

1. Josefa Gonzalez (Institut de Biologia Evolutiva, Barcelona, Spain)
2. Valer Gotea (National Human Genome Institute, Bethesda, USA)
3. Dan Graur (University of Houston, Houston, USA)
4. Dixie Mager (University of British Columbia, Canada)
5. Masumi Nozawa (National Genetic Institute, Mishima, Japan)

Wojciech Makalowski <wojmak@me.com>

Chicago SMBE2013 Jul7-11 NoncodingRNAs

Dear evoldir members,

As a part of the Annual Meeting of the Society for Molecular Biology and Evolution (SMBE), that will be held in Chicago on July 7-11 2013, we are pleased to announce a symposium on “Noncoding RNAs in development and evolution”. Abstract submissions are open until March 18th. Travel awards are available to allow young scientists to attend the conference. Please go to www.smbe2013.org for additional information and for registration.

Invited speakers:

- Claudia Kutter (Cancer Research UK, University of Cambridge)
- Philipp Khaitovich (Partner Institute for Computational Biology, Max Planck Society, Shanghai, <http://->

www.picb.ac.cn/Comparative/)

- Ana C. Marques (MRC Functional Genomics Unit, University of Oxford)

Summary:

Eukaryotic genomes encode a variety of noncoding RNAs that carry out essential functions, including gene expression regulation, defense of the genome against transposable elements, RNA editing, and mRNA splicing and translation. Due to their versatile roles as gene expression regulators, noncoding RNAs play critical parts in cellular differentiation, morphogenesis and growth. With the recent advances of molecular and genomic technologies, we are acquiring a better understanding of the importance of noncoding transcriptomes in model and non-model organisms. For this symposium, we invite contributions highlighting the biological functions of noncoding RNAs (lncRNAs, miRNAs, piRNAs, etc.) in embryonic development and morphological evolution. We hope that this symposium will help bridge the gap between experimental studies of noncoding RNAs in development and genome-wide evolutionary studies of noncoding transcriptomes.

For more details, please do not hesitate to contact us.

Anamaria Necșulea and Maria Warnefors

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Chicago SMBE2013 Jul7-11 SymposiaDescriptions

SMBE Symposia Descriptions Now Online
[www.smbe2013.org] The preliminary 2013 SMBE
Science Program (including symposia descriptions) is
now online. Please take a moment to review which
topic is of interest to you and then submit an abstract
for an oral or poster presentation. Those not selected
to present an oral presentation may be asked to present
a poster.

Abstract Submission Deadline* is MARCH 19, 2013

Additional Travel Awards Now Available!

SMBE has provided increased funding this year for post-graduate travel awards to allow young scientists to attend and participate in the conference. Travel award recipients in all categories will receive US \$1500 (for recipients in North America) or \$2000 (for overseas recipients). Five awards will be reserved for recipients from underrepresented countries. All applicants will be asked to provide a current CV and cover letter when they submit their abstract.

There are only a limited number of travel awards! Submit your abstract by MARCH 19, 2013 for consideration.

Please visit smbe2013.org for more information.

*Abstract submission for talks closes March 19th; poster abstracts will be accepted until April 15th.

If you have any questions please contact secretariat@smbe2013.org.

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<sbradham@faseb.org>

Chicago SMBE2013 Jul7-11 UndergradAwards

Reminder: the deadline of SMBE 2013 Undergrad Travel Awards is on April 2.

SMBE UNDERGRADUATE TRAVEL AWARDS

2013 ANNUAL MEETING OF THE SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION

July 7-11, Chicago, USA

The Society for Molecular Biology and Evolution (SMBE) is pleased to make available 10 awards for undergraduate students to participate in a Mentoring and Diversity Program at the SMBE meeting (July 7-11, Chicago, USA). Five of these positions will be reserved for undergraduates from traditionally underrepresented groups in our scientific discipline.

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

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

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

http://lbbe-dmz.univ-lyon1.fr/spip.smbe_undergrad/
DEADLINE FOR RECEIPT OF APPLICATIONS:
April 2, 2013

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Cornwall UK EMPSEB 19 Sep3-7 DeadlineExtended

EMPSEB 19- DEADLINE FOR ABSTRACT SUBMISSION EXTENDED TO 8th OF MARCH.

Dear Colleagues,

The registration deadline for the 19th European Meeting of PhD Students in Evolutionary Biology (EMPSEB) has been extended to the 8th of March, giving European PhD students at all stages of their research a further week to apply! The meeting is being held at the University of Exeter Cornwall Campus, UK, from the 3rd-7th September, 2013, and plenary speakers include Professor Geoff Parker, Professor Judith Mank, and Professor Troy Day.

Details about how to register can be found on the website: <http://www.empseb19.com> Registration cost: euro 350 (Price includes transport to Cornwall from selected UK airports, accommodation, and meals for the duration of the conference) Any enquiries should be directed to secretary@empseb19.com

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

in Zurich, Switzerland in 1995.

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

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

Follow us on Twitter & Facebook: <https://twitter.com/empseb19> <https://www.facebook.com/EMPSEB19> publicity@empseb19.com

DalhousieU Endocytobiology Aug18-22

12th International Colloquium on Endocytobiology and Symbiosis

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

THIRD CIRCULAR (22 March 2013)

REGISTRATION AND ABSTRACT SUBMISSION NOW OPEN

Dear Colleagues,

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

There will be registration and an opening reception the evening of Sunday August 18. Talks will begin the morning of August 19th.

CONFERENCE WEBSITE

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

April 30 2013: Early registration closes. April 30 2013: Deadline for receipt of presentation abstracts.

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

Best regards, John Archibald

John Archibald <jmarchib@dal.ca>

FieldMuseum Chicago PlantEvolution Apr20

Chicago Plant Science Symposium 2013 The Field Museum

*Saturday April 20, 2013 *

10:00 AM - 7:00 PM

We are pleased to announce the third year of the annual Chicago Plant Science Symposium. This series is designed bring together the plant science community of the greater Chicago area for a one day symposium that highlights the cutting edge of research in plant evolution, ecology, and conservation. The program will include lunch and a post-conference mixer. Best of all, registration will be free!

The theme of the symposium this year is *"Old Questions, New Tools." *Some questions in plant science have been of interest for many years, but they continue to evolve as new technologies and new tools are developed. The symposium this year will explore a variety of these "old questions" and the new discoveries that "new tools" are enabling. The program includes a diverse set of speakers who are united by the common thread that their research is using new approaches to investigate longstanding questions in plant science. The talks span plant biology, evolution, ecology, and paleontology, and include perspectives from molecular, morphological, and functional data.

Speakers:

* *

*Boris Igic**, University of Illinois at Chicago*

Tempo and mode of breeding system evolution

*Rebecca Montgomery**, University of Minnesota*

Phenology comes of age in an era of rapid climate change

*Deren Eaton**, University of Chicago/Field Museum of Natural History*

*Isolation, introgression and floral divergence in *Pedicularis* as revealed through genomic RAD sequences*

*Lena Hileman**, University of Kansas*

*Diversification of plant developmental programs: look-

ing across clades and across generations*

*Jun Wen**, Smithsonian Institution*

Evolution via the grape vine

*Patrick Herendeen**, Chicago Botanic Garden*

Synchrotron x-ray microtomography in studies of fossil flowers

*Gary Watson**, The Morton Arboretum*

Adapting NASA technology to tree biomechanics research

Registration: Registration is free, but we need to know who is coming to plan for lunch and refreshments.

To register please respond to this email message with your name and institution. You may also send questions to this address.

Organizers:

Patrick Herendeen, Richard Ree and Andrew Hipp

chicagoplantscience@gmail.com

<http://www.chicagoplantscience.org/rree@fieldmuseum.org>

registration.

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

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

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

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

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

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

Galapagos Evolution Jun1-5 TravelAwardDeadline

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

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

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

Travel awards cover travel/food/lodging/conference

IST Austria EvolutionShape Apr26

The postdocs and PhD students from IST Austria proudly announce the Young Scientist Symposium 2013, an interdisciplinary one-day symposium entirely organized by young scientists. This year’s title of the YSS is “Understanding Shape: in silico and in vivo”.

The concept of shape touches many areas of research and has been approached by a variety of different methodologies in developmental and evolutionary biology, mathematics, computer vision, and neuroscience, which makes it an ideal topic for dynamic and interdisciplinary exchange. We aim at a broad audience from many fields of research that is interested in developing a general understanding of formation, perception, and description of shape across disciplines.

The IST Austria Young Scientist Symposium 2013 Understanding Shape: in silico and in vivo at IST Austria, Am Campus 1, 3400 Klosterneuburg on April 26, 9am-7pm.

For more information and registration, please visit our webpage at <http://ist.ac.at/young-scientist->

[symposium-2013/](#) and see the attached poster. Attendance to the event is free of charge.

With best regards,

The YSS Organizing Team

Sebastian

Sebastian Novak <sebastian.novak@ist.ac.at>

IST Austria Morphological Evolution Apr26

Announcing the launch of the second IST Austria Young Scientist Symposium on Friday April 26th 2013.

The topic for this year's symposium will be "Understanding Shape: in silica and in vivo".

The concept of shape touches on many areas of research ranging from shape description in mathematics, shape formation during development and evolution and shape perception in computer vision and neuroscience. This has led to a number of different approaches and methodologies being developed independently in isolation from each other, especially among biologists and mathematicians.

This symposium aims to bring together people with different approaches to foster discussion. The event is open to everyone, and talks will be broad enough to be interesting to scientists in general.

We are pleased to announce the following distinguished speakers, who will talk : - Robert Aerni¹ (Charles University in Prague) - Ed Connor (John Hopkins University) - Vittorio Ferrari (University of Edinburgh) - Massimo Ferri (Bologna University) - Chaim Goodman-Strauss (University of Arkansas) - Isaac Salazar-Ciudad (Universitat Autònoma de Barcelona)

This one-day event is organised by the students and postdocs of IST Austria, and will take place on the IST Austria campus outside Vienna. Registration is free and includes lunch, and a shuttle bus will be provided too and from Vienna free of charge. There will also be an opportunity for a campus tour if you wish to take a look at the rest of what goes on at IST Austria.

For more information and to register for this event, please see the following website: <http://www.ist.ac.at/-young-scientist-symposium-2013> Unfortunately as this is a free event, we are unable to provide funding for travel for delegates or assist with VISAs or accommo-

modation.

tom.ellis@ist.ac.at

Ithaca AGA2013 Jul20-22 Speciation Continuum

This is the first announcement for the 2013 Symposium of the American Genetic Association, to be held from July 20-22 at Cornell University in Ithaca, NY – Speciation Continuum: A Discussion on the Origin of Species.

More details will be available soon at <http://www.certain.com/system/profile/web/-index.cfm?PKwebID=3D0x44728099a8&varPage=home> Speakers include:

Key Distinguished Lecturer: Sergey Gavrilets, University of Tennessee, Department of Ecology and Evolutionary Biology

Alex Buerkle, University of Wyoming, Department of Botany Bill Etges, University of Arkansas, Program in Ecology and Evolutionary Biology Rosemary Gillespie, University of California, Division of Organisms and Environment Rick Harrison, Cornell University, Department of Ecology and Evolutionary Biology Scott Hodges, University of California, Santa Barbara, Department of Ecology, Evolution, and Marine Biology Jim Mallet, Harvard University, Department of Organismic and Evolutionary Biology and University College London, Department of Genetics, Evolution and Environment Tami Mendelson, University of Maryland, Department of Biological Sciences Sean Mullen, Lehigh University, Department of Biological Sciences Mohamed Noor, Duke University, Biology Department Kevin Oh, Cornell University, Department of Neurobiology and Behavior Brett Payseur, University of Wisconsin-Madison, Laboratory of Genetics Katie Peichel, University of Washington, Molecular & Cellular Biology Trevor Price, The University of Chicago, Department of Ecology and Evolution Howard Rundle, University of Ottawa, Department of Biology Rebecca Safran, University of Colorado, Department of Ecology and Evolutionary Biology Maria Servedio, University of North Carolina at Chapel Hill, Biology Department Laurie Stevison, University of California, San Francisco, Institute for Human Genetics Sara Via, University of Maryland, Department of Biology John Willis, Duke University, Biology Department

Mark your calendars!

Kerry Shaw, President American Genetic Association
agajoh@oregonstate.edu

Lisbon ESEB2013 Aug19-24 ColourPolymorphisms

SYMPOSIUM: The evolution and maintenance of heritable colour polymorphisms: from ecology to genomes

Please note that we are accepting abstracts with suggestions for talks and poster until the 8th of March

Invited speakers: Rosemary G. Gillespie and Jon Slate

Symposium description: Polymorphisms are found in a wide range of taxa but the why and how genetic polymorphisms persist over time remains a classic problem in biology. In humans for example, 5-15% of the examined genes are polymorphic, and in many cases alternative alleles can profoundly alter fitness. The relatively simple genetic basis of many colour polymorphisms (one or a few loci) makes them well-suited to study evolutionary processes, even in non-model organisms. This is part of the reason why colour polymorphic systems have become popular when studying the early stages of speciation and mechanisms facilitating or constraining reproductive isolation. In the past, work on heritable colour polymorphisms has concentrated on the ecology and morph-frequency differences between populations and generations using the framework of classical population genetics. In this sense, studies of heritable colour polymorphisms were used as counterparts to classical *Drosophila* studies, in which marker phenotypes have been used to study genetic dynamics in laboratory evolution assays. Temporal and spatial differences in morph frequencies were then attributed to the action of well-recognized evolutionary forces such as genetic drift, natural selection and sexual selection.

The field on polymorphism research is currently progressing rapidly because of advances in genomic technologies, especially high-throughput DNA sequencing. We have now become capable of scanning large parts of the genome at a cost that evolutionary biologists working on wild populations can afford. The application of these genomic tools to ecological model species means that we can start addressing some of the questions that have puzzled ecological geneticists for decades such as: How many genes are involved in adaptation? What

types of genetic variation are responsible for adaptation? Does adaptation utilize standing genetic variation or does it require new mutations to arise following an environmental change?

This symposium seeks to provide a platform for scientists that are working towards the integration of ecology and genomics in the study of colour polymorphic systems.

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

Organizers: Maren Wellenreuther and Bengt Hansson, Lund University, Sweden

Maren.wellenreuther@biol.lu.se

Maren Wellenreuther

Marie Curie Postdoctoral Researcher Department of Biology, Lund University SE-223 62 Lund, SWEDEN

Phone: +46 46 222 9014 Mobile: +46 709 429930

<http://marenwellenreuther.com/index.html>

<http://www.lu.se/meel/people/postdocs/maren-wellenreuther> maren.wellenreuther@gmail.com

Lisbon ESEB2013 Aug19-24 DeadlineExtended

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

Deadline for abstract submission extended to 8th of March.

There are already more than 900 registered delegates. In order to avoid a last day peak of abstract submissions, the congress organization extends the deadline for the abstract submission to 8th of March.

Octavio Paulo Chairman

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

Lisbon ESEB2013 Aug19-24 EvolutionMulticellularity

ESEB Symposium on “Early germ-soma segregation”

Dear Colleagues:

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

Invited Speakers:

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

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

Organisers

Duur K. Aanen (Wageningen University; email: duur.aanen@wur.nl)

Rick Michod (University of Arizona)

Summary:

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

Description

Most animals segregate, early in development, a small number of germ cells that are destined to give rise to reproductive cells, from somatic cells. Only a few cell divisions separate the germ cell from the gamete stage and germ-cell division is strictly regulated. It has been nearly

25 years since Leo Buss proposed that these individual-level adaptations reduce the scope for within-individual selection, at which level selection often will be deleterious for individual fitness. The early germ-soma segregation thus prevents conflict between selection at the level of the individual and selection at the level of the cell. There is much empirical support for this hypothesis. However, it has been argued that the regular single-cell bottleneck observed in most life cycles in combination with a low mutation rate is sufficient to limit intra-individual genetic variation required for among-

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

Duur Aanen Assistant professor Laboratory of Genetics Wageningen University and Research Center The Netherlands Tel. +31(0)317 483144 Mobile: +31 (0)6 10327948 Fax: +31 (0)317 483146 <http://www.gen.wur.nl/UK/Staff/Scientific%20Staff/-Duur+Aanen> “Aanen, Duur” <duur.aanen@wur.nl>

Lisbon ESEB2013 Aug19-24 ImmunePriming

Dear colleagues, ESEB abstract submission deadline has been extended to the 8th of March. We invite you to participate in our symposium on “Non-genetic transfer of immunity across generations” evolution and underlying mechanisms“, including free dinner sponsored by the Volkswagen Foundation for all symposium participants.

Symposium description: To cope with parasites and pathogens, immunological experience can be trans-

ferred across generations also non-genetically, allowing for higher adaptive plasticity. Recent studies suggest that trans-generational immune priming (TGIP) can also be provided by innate defence components and that it is not limited to maternal effects. Both evolutionary and mechanistic advances in TGIP should be addressed in this symposium in systems ranging from invertebrates to vertebrates.

Invited speakers:

Ben Sadd (ETH Zürich) and Mike Boots (University of Exeter)

For registration and abstract submission, please go here: www.eseb2013.com We are looking forward to seeing you in Lisbon!

Olivia Roth & Gerrit Joop

Gerrit.Joop@agrار.uni-giessen.de

Lisbon ESEB2013 Aug19-24 RecentHumanEvol LastCall

Dear colleagues, this is a reminder that abstract call for the *symposium * *ADVANCES IN QUANTITATIVE APPROACHES TO RECENT EVOLUTIONARY CHANGE IN HUMANS of the ESEB Congress in Lisbon (19-24 August 2013)* closes *tomorrow*(8th of March). So far we received “only” 17 submissions.

Please register and submit your abstracts through the congress website: <https://www.eseb2013.com/> * *

Symposium description: Applying a rigorous evolutionary framework to understand human biology and behaviour present numerous challenges. However, many recent advances have brought this field to a point where resolution of past difficulties may be achieved. The goal of this symposium is to provide a diverse overview of the state-of-the-art in quantitative approaches to investigate human evolution at different levels of biological organisation (from genes or genomes to societies) . While we expect most contributions to focus on selective evolutionary processes, we also very much welcome works assessing the importance of other processes in human evolution (e.g. drift). We decided to limit the scope of this symposium to recent evolutionary change (specifically from from the end of Pleistocene - 10,000 years ago - to present day). This restriction is aimed at counterbalancing the view predominant in some fields that recent changes are of little consequence for understand-

ing human biology. Indeed, not only do we disagree, we think that this focus may more reflect methodological limitation than genuine scientific import.

Invited speaker: Stephen Stearns (Yale), Mark Thomas (UC London) and Jean-Baptiste Michel (Harvard). Organisers: Alexandre Courtiol (Berlin) <https://sites.google.com/site/alexandrecourtio/home> Ian Rickard (Durham) http://www.dur.ac.uk/-anthropology/research/earg/earg_members/-earg_profiles/?mode=staff&id=10886 Hope to see you in Lisbon!

alexandre.courtio@gmail.com

Lisbon ESEB2013 Aug19-24 SpeciesRecognitionSystems

Dear Colleagues,

We are glad to invite you to participate to the symposium

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

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

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

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

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

Invited speakers:

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

We are looking forward to read your abstracts!!!

The organisers

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

John Endler (School of Environmental and life Sciences, Deakin University, Australia, john.endler@deakin.edu.au)

GANEM Guila CNRS Researcher Institut of Evolutionary Sciences, University of Montpellier 2 - Montpellier
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Address: ISEM – cc065, Université Montpellier 2 34095 Montpellier cedex 5, France Web: www.isem.univ-montp2.fr/ganem-guila guila.ganem@univ-montp2.fr

Lisbon ESEB2013 Aug19-24 TradeOffs

Abstract Deadline for ESEB Symposium on Mechanisms of Trade-Offs

Dear Colleagues:

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

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

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

Best wishes,

Bas Zwaan and Thomas Flatt

—

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

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

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

SNYOPSIS Trade-offs are of major importance in evolutionary theory, in particular in life history theory, since they are thought to impose constraints upon the response to selection: trade-offs occur when an evolutionary change in a trait that increases fitness is coupled to an evolutionary change in another trait that decreases fitness. Because organisms are often restricted in terms of resource acquisition, one of the major physiological explanations for the existence of trade-offs is differential resource allocation between competing functions/traits. Recently, however, molecular data have challenged the validity of this view, even though both views may be compatible with each other. Unfortunately, up-to-date, trade-offs have either mostly been approached from a purely phenotypic perspective without much attention to the underlying physiological and genetic mechanisms, or conclusions about trade-offs have been drawn from molecular studies without sufficient consideration of the functional/organismal phenotype. In this symposium we aim to bridge these views by linking our current knowledge of the molecular and physiological pathways with what has been learned about quantitative genetic and phenotypic correlations among traits. Understanding the mechanisms underlying trade-offs and their evolutionary consequences will require an integrative approach, and it is the major aim of our symposium to help foster such an integration.

Website:

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

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

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

We are looking forward to seeing you in Lisbon!

Bas and Thomas

Bas Zwaan

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

E-mail: bas.zwaan@wur.nl

Thomas Flatt

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

Switzerland

E-mail: Thomas.Flatt@unil.ch

Book: Mechanisms of Life History Evolution

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

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

E-mail: Thomas.Flatt@unil.ch

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

Website: <http://www.unil.ch/dee/page94630.en.html>

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

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

Thomas.Flatt@unil.ch

France 27-29 May 2013).

Dear colleagues,

On request from some people interested in this event, we have extended the deadline for abstract submission and registration to the conference SPECIATION 2013.

To register and get information about the conference, please go to: <http://kimura.univ-montp2.fr/-speciation2013/>. Please note that you first need to pre-register following the instructions on the website -Registration procedure¹ tab.

Looking forward to seeing you in Montpellier,

Best wishes Carole Smadja and Isabelle Olivieri

Dr. Carole Smadja CNRS research scientist Institute of Evolutionary Biology, Montpellier <http://www.carole-smadja.staff.shef.ac.uk/> Institut des Sciences de l'Évolution cc065, Université Montpellier 2 34095 Montpellier France Phone: +33 (0)4 67 14 92 70 carole.smadja@univ-montp2.fr

Manchester Landscape Genetics Sept9-12

We would like to draw your attention to our Landscape Genetics symposium at IALE in Manchester, UK, September 9-12, 2013:

<http://www.iale2013.eu/landscape-genetics> Please spread the word and submit your abstract until April 8, 2013:

<http://www.iale2013.eu/call> Best wishes

Janine Bolliger, Swiss Federal Research Institute WSL, Switzerland.

Tonya Lander Natural History Museum, London, UK.

Niko Balkenhol, Department of Forest Zoology & Forest Conservation, Georg-August University of Göttingen, Germany.

niko.balkenhol@forst.uni-goettingen.de

Montpellier Speciation May27-29

DEADLINE EXTENDED to Friday 29 March 2013 for REGISTRATION to SPECIATION 2013 (Montpellier,

Montpellier France SPECIATION2013 May27-29

REMINDER

The deadline for registration to the conference SPECIATION 2013, to be held in Montpellier 27-29 May 2013, is approaching (22 March 2013).

To register and submit abstracts, please go to <http://kimura.univ-montp2.fr/speciation2013/>. Please note that you first need to pre-register following the instructions on the website -'Registration procedure' tab.

Suggestions for accommodation are provided on the conference website.

Best wishes Carole Smadja and Isabelle Olivieri

Dr. Carole Smadja CNRS research scientist Institute of Evolutionary Biology, Montpellier <http://www.carole-smadja.staff.shef.ac.uk/> Institut des Sciences de l'Évolution cc065, Université Montpellier 2 34095 Montpellier France Phone: +33 (0)4 67 14 92 70 carole.smadja@univ-montp2.fr

Munich Population Genomics Mar13-15

Dear Colleagues -

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

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

This meeting will be a combined

student progress report meeting and symposium Population Genomics.

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

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

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

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

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

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

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

We are looking forward to seeing you here!

Best regards,

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

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

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

NHM London BSPB Linnean Soc Apr10-12

Protists, other small organisms, and Next Generation Sequencing: A forum for ideas, news, information, and exchange

EARLY BIRD REGISTRATION DEADLINE EXTENDED TO 23 MARCH 2013

Joint meeting between the British Society for Protist Biology and the Linnean Society

10-12 April 2013, Natural History Museum, London

This meeting will be an exciting forum for exchange of knowledge, experiences, and learning about new experimental and analytical methods associated with NGS, from data generation to analysis. Guest speakers include Si Creer (Bangor University), Micah Dunthorn (Kaiserslautern University), Dawn Field (Molecular Evolution and Bioinformatics Group, CEH), Neil Hall (Advanced Genomics Facility, Liverpool University), Christopher Quince (Computational Microbial Genomics Group, Glasgow University), Konrad Paszkiewicz & Karen Moore (Biomedical Informatics Hub & Exeter Sequencing Service), and Kamran Shalchian-Tabrizi (Microbial Evolution Research Group, Oslo University)

To register & for more information visit <http://www.protist.org.uk/meetings.html> Both members of the BSPB and Fellows of the Linnean Society of London are offered a special members rate.

Martin Carr <martcarr74@gmail.com>

NHM London Protist Evolution Apr10-12

Protists, other small organisms, and Next Generation Sequencing: A forum for ideas, news, information, and exchange

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To register & for more information visit <http://www.protist.org.uk/meetings.html> Book by 10 March for the early bird rate. Both members of the BSPB and Fellows of the Linnean Society of London are offered a special members rate.

To offer an oral or/and poster presentation, please send the title(s) and abstract(s) to David Bass (d.bass@nhm.ac.uk) with the subject line 'BSPB 2013 presentation' by 10 March 2013. In addition to the main symposium there will also be an open session for presentations on any topic in the field of protistology.

Martin Carr <martcarr74@gmail.com>

New York Monocot Evolution Jul7-13

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

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

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

Registration Is Now Open, With Early Bird Rates! Click on the "Register Now" button in the upper right corner of the Monocots V website: <http://www.regonline.com/builder/site/Default.aspx?EventID=1060172> . Conference to be held at The New York Botanical Garden and Fordham University in Bronx, New York City, Sunday, July 7, 2013 7:00 AM - Saturday, July 13, 2013 12:00 PM. The scientific program will consist of symposia, contributed papers and posters, and workshops. Optional activities will include a ticketed banquet, tours of the Botanical

Garden Science campus, and post-conference field trips to the Hudson Highlands of New York and the Pine Barrens of New Jersey. Accommodations will be in the Fordham University residence halls. In addition, several area hotels are offering discount rates to Monocots V registrants.

Hope to see you in New York in July! The Organizing Committee (Conference Development and Scientific Program) Lisa M. Campbell Jerrold I. Davis Alan W. Meerow Robert F. C. Naczi Dennis Wm. Stevenson W. Wayt Thomas

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

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

Oslo 2013 Galaxy Jun30-Jul2

Hello all,

We are pleased to announce that early registration and paper and poster abstract submission are now open for the 2013 Galaxy Community Conference (GCC2013, <http://galaxyproject.org/GCC2013>). GCC2013 will be held 30 June through July 2 in Oslo Norway, at the University of Oslo.

GCC2013 is an opportunity to participate in two full days of presentations, discussions, poster sessions, keynotes, lightning talks and breakouts, all about high-throughput biology and the tools that support it. The conference also includes a Training Day for the second year in a row, this year with more in-depth topic coverage, more concurrent sessions, and more topics.

If you are a biologist or bioinformatician performing or enabling high-throughput biological research, then please consider attending. GCC2013 is aimed at:

- * Bioinformatics tool developers and data providers *
- * Workflow developers and power bioinformatics users *
- * Sequencing and Bioinformatics core staff *
- * Data archival and analysis reproducibility specialists

Early registration saves up to 75% off regular registration costs, and is very affordable, with combined registration (Training Day + main meeting) starting at ~ euro 95 for post-docs and students. Registering early also assures you a spot in the Training Day workshops

you want to attend. Once a Training Day session becomes full, it will be closed to new registrations. Early registration closes 24 May.

Abstract submission for oral presentations closes 12 April, and for posters on 3 May. Please consider presenting your work. If you are working with big biological data, then the people at this meeting want to hear about your work.

Thanks, and hope to see you in Oslo!

The GCC2013 Organizing Committee

Links: <http://galaxyproject.org/GCC2013> <http://wiki.galaxyproject.org/Events/GCC2013/Register>
<http://wiki.galaxyproject.org/Events/GCC2013/Abstracts> <http://galaxyproject.org/> clements-galaxy@gmail.com

many) Walter Salzburger (Zoological Institute, University of Basel, Switzerland) Sébastien Renaut (Botany Department, University of British Columbia, Vancouver, Canada) Roger Butlin (Department of Animal and Plant Sciences, University of Sheffield, UK)

For more information: <http://www.aes-cibio.org/>

The AES conference will be dedicated to the memory of Professor Godfrey Hewitt, whose inspiring research allowed major progresses in the understanding of the origins of biodiversity.

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

jmeloferreira@cibio.up.pt

Portugal Ecological Speciation Apr29-30

Portugal.Ecological.Speciation.Apr29-30

ADVANCES IN ECOLOGICAL SPECIATION (AES) Conference, Portugal, 29-30 April 2013

NEW DEADLINE for Early Registration and Abstract Submission. We extended the deadline to MARCH 29th!

Final programme will be announced on April 5th.

Please visit us on <http://www.aes-cibio.org/>

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

NEW EVENTS! We are organizing a Conference Dinner (April 30th) sponsored by the organization of the conference and a visit to Porto (1st of May, bank holiday) for those participants that decide to stay after the conference.

Invited Speakers:

Dolph Schluter (Biodiversity Research Centre and Zoology Department, University of British Columbia, Vancouver, Canada) Felicity Jones (Friedrich Miescher Laboratory of the Max Planck Society, Tubingen, Ger-

QueenMaryU InsectEvolution May31

Dear all

This message is to invite you to the Royal Entomology Society Infection and Immunity special interest group meeting 2013. The meeting will be held on the 31st May 2013 in the Fogg Building at Queen Mary, University of London. The meeting is an informal one-day conference with a series of twenty minute talks. We particularly encourage PhD students and PostDocs to speak, although more senior researchers are of course also welcome.

The total cost for the meeting is not yet finalised but is likely to be in the region of £10 or less, which will include lunch and coffee. Following the meeting there will be an opportunity to enjoy the scenic ambience and exciting flavours available in the East End of London.

If you would like to attend or speak, or have any other questions please contact me (r.knell@qmul.ac.uk) or Petros Ligoxygakis (petros.ligoxygakis@bioch.ox.ac.uk). Please pass this on to anyone who might be interested who isn't listed above, such as other people in your lab or department who we might have missed off accidentally.

regards

Rob Knell

Rob Knell r.knell@qmul.ac.uk School of Biological and Chemical Sciences, QMUL.

+44 (0)20 7882 7720

Research <http://webspaces.qmul.ac.uk/rknell/>
 Book now out: Introductory R, A Beginner's Guide to Data Visualisation and Analysis using R www.introductoryr.co.uk r.knell@qmul.ac.uk

Roscoff France EvolCancer Nov2-6

*Jacques Monod Conference: **“Ecological and evolutionary perspectives in cancer” to be held in Roscoff (Brittany), France, November 2-6, 2013*

The conference is organized by Michael Hochberg (Montpellier, France) and Paul Ewald (Louisville, USA). Jacques Monod Conference website: http://www.cnrs.fr/insb/cjm/cjmprog_e.html Cancer is a disease of opportunity, associated with clonal evolution, expansion and competition within the body. Specifically, somatic cellular selection and evolution are the fundamental processes leading to malignancy, metastasis and resistance to therapies. The Jacques Monod Conference “ *Ecological and Evolutionary Perspectives in Cancer” *aims to promote this emerging discipline by addressing some of the most important questions about cancerogenesis. The conference will cover 3 themes:

- Interspecific patterns and processes - Progression - Therapies

The first theme will address the observation that infectious agents can cause cancers. Persistent infections may promote cancer because long-term host defensive responses induce inflammation that subsequently increases mutation rates. Why human defensive mechanisms have not evolved to more efficiently control or eliminate invasive cell lineages, and why do some species with more somatic tissue show less than expected incidences of cancer? The second theme will evaluate the role of the tumor environment and natural selection in explaining cancer progression. To what extent are different cancers predictable and what are the key contributing variables? The third theme will tackle the daunting challenge of employing evolutionary theories to improve cancer therapies. It will seek how preventative, curative and management therapies can be improved and even optimized to slow or stop the emergence of resistance to chemotherapies.

Please note that participation at this conference is not limited to research on carcinogenesis: we will consider applications from scientists with affinities towards the themes of the conference, and working on related topics from ecology and the evolutionary sciences, including social evolution, evolution of multicellularity, resistance management, evolutionary medicine of diseases, and species invasions.

* *

Invited speakers and provisional titles

*AKTIPIS Athena *(San Francisco, USA): Challenges and opportunities for evolutionary and ecological approaches to cancer

BEERENWINKEL Nico (Basel, Switzerland): Using next-generation sequencing to estimate genetic tumor diversity and to inform mathematical models of tumor evolution

CICCARELLI Francesca (Milano, Italy): Genome instability and the evolution of cancer

CLAIRAMBAULT Jean (Paris, France)*: *Mathematical assessment of drug resistance in cancer cell populations: Genetic or epigenetic phenomenon?

CRESPI Bernard (Burnaby, Canada): Genomic imprinting in the evolution and development of cancer

*DELHOMMEAU François *(Paris, France): Clonal architecture in myeloid malignancies

*EWALD Paul *(Louisville, USA): Toward a unified theory of cancer

FRIDMAN Hervé (Paris, France): Impact of patient's immunity and inflammation on progression, metastasis and clinical outcome of cancers

GATENBY Robert (Tampa, USA)*: *Evolutionary dynamics in cancer therapy

HAREL-BELLAN Annick (Gif-sur-Yvette, France): Non-coding RNAs and cancer

*HENG Henry *(Detroit, USA): Genome chaos and cancer evolution

*HIBNER Urszula *(Montpellier, France): Host-pathogen interactions: hijacking of cellular functions by the Hepatitis C virus sensitizes the host cell to oncogenic transformation

*HOCHBERG Michael *(Montpellier, France): Optimizing preventative therapies

*MAINI Philip *(Oxford, United Kingdom): Mathematical and computational modeling of cancer growth and dynamics

*MALEY Carlo *(San Francisco, USA): Why we get

cancer and why it has been so hard to cure?

*OLIVIERI Isabelle *(Montpellier, France): What can we learn from evolutionary thinking-based pesticide management for optimizing chemotherapy protocols?

*PACHECO Jorge *(Braga, Portugal): Somatic evolution of cancer in hematopoiesis

*PEPPER John *(Bethesda, USA): Evolutionary insights into acquired resistance to cancer therapy, and how to avoid it

*QUINTANA-MURCI Lluís *(Paris, France): From evolutionary and population genetics to human disease

*RADMAN Miroslav *(Paris, France): Keynote address: Biological clock in carcinogenesis

*SAVAGE Philip *(London, United Kingdom): Why are only some cancers curable with chemotherapy?

*SOLÀ Ricard *(Barcelona, Spain): The evolution of unstable cancer cell populations

*SPROUFFSKE Kathleen *(Zurich, Switzerland): Reconstructing the order of somatic mutations in cancer progression

*STRATTON Michael *(Cambridge, United Kingdom): Sequencing the cancer genome

*THOMAS Frédéric *(Montpellier, France): Evolution of cancer vulnerability among species: Peto's paradox revisited

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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>

Suva Fiji Barcode Jul8-12 CallForAbstracts

Dear Colleagues,

The Consortium for the Barcode of Life (CBOL) at the Smithsonian Institution and CSIRO in Canberra, Australia, are the co-organizers of a full-day symposium/workshop at the 12th Pacific Science Association Inter-Congress, Suva, Fiji 8-12 July 2013. The session is endorsed by the Oceania GBIF Node and the Global Taxonomy Initiative of the Convention on Biological Diversity. The description of the session is presented below. You will see that the day will be divided between

presentations on barcoding as a tool for digitizing collections and a training workshop on other digitization techniques.

The organizers invite you to submit abstracts for the barcoding session to David Schindel (schindeld@si.edu) and for the digitization session to Beth Mantle (Beth.Mantle@csiro.au).

===CONNECTING BIODIVERSITY COLLECTIONS IN THE PACIFIC: DIGITIZATION THROUGH DNA BARCODING AND INFORMATICS

David E. Schindel, Consortium for the Barcode of Life, Smithsonian Institution, Washington, DC, USA
Beth Mantle, Australian National Insect Collection, CSIRO, Canberra, ACT, Australia

Reference collections in museums, herbaria, botanical gardens, zoos and other repositories are critical infrastructure for research, education, regulation and legislation related to biodiversity. These collections provide documentation of research results as well as long-term changes in nature. Patterns of ecological, evolutionary and anthropogenic changes often go unseen and undocumented until samples from these collections material are analyzed and re-analyzed using the latest technology. In order to be accessible and effective, reference collections need to be digitized and their data and metadata made available to the research and education community, to policy-makers, and to the general public. Digitization in the most general sense is the association of an organism and its characteristics to a unique identifier that can be indexed for later searching and retrieval. It can take several forms, ranging from digital capture of label data (date and place of collection, taxonomic identification) to digital image capture and even DNA sequencing.

This full day session will include a half-day symposium of contributed presentations on DNA barcoding and a half-day instructional workshop on biodiversity informatics. The DNA barcoding symposium will contribute toward development of a regional strategy for Oceania for construction and use of standardized barcode libraries. These libraries could serve basic research in ecology and evolution and/or applications such as the protection of endangered species and control of invasive alien species such as agricultural pests. The biodiversity informatics workshop will showcase initiatives such as the Global Biodiversity Information Facility (GBIF), the Atlas of Living Australia (ALA), New Zealand Organisms register (NZOR), and digitization initiatives such as iDigBio and Australia's Virtual Herbarium (AVH). This session will explore applications and network tools appropriate for the small and

scattered countries and territories of Oceania. Participants will learn the latest approaches to the digitization of natural history collections and explore how these could be applied to their collections. The session will conclude with a round-table discussion on strategic development of, and support for, biodiversity informatics in the Oceania region.

The Secretariat of the Convention on Biological Diversity (CBD) has expressed its support for this proposed workshop as a contribution to enhancing capacity in taxonomy (a goal of CBD's Global Taxonomy Initiative, GTI) and strengthening informatics infrastructure in the Pacific region. Academic collaborations on biodiversity facilitate achievement by CBD Parties in the region of Aichi Biodiversity Target 9 (invasive alien species) and Target 19 (Biodiversity science).

“Schindel, David” <schindeld@si.edu>

Trento Italy SIBE Evoluzione2013 Aug28-31

Trento.Italy.SIBE_Evoluzione2013.Aug28-31

EVOLUZIONE 2013, The V Congress of the Italian Society for Evolutionary Biology (SIBE-ISEB)

August 28-31, 2013. Trento, Italy

REGISTRATION AND ABSTRACT SUBMISSION NOW OPEN

Dear friends and colleagues,

Registration is now open for EVOLUZIONE2103 (www.evoluzione2013.it), the biennial congress of the Italian Society for Evolutionary Biology (SIBE). The congress will be held at the end of August (28-31) in the historical town of Trento, in the heart of the Italian Alps, a region renowned for its excellent wine, castles, and the beautiful dolomite mountains.

The congress covers various exiting topics and aims to be extremely interdisciplinary and targeted not only to evolutionists, but also to other scientists willing to get in touch with evolution. There will be plenty of space to present your research as a talk or as a poster. We especially welcome contributions from PhD students, for which there is a specially-reduced 70 euros congress fee, a dedicated “PhD symposium” for off topic abstracts, and awards for the best talk. the official language of the congress will be English, and we encourage the participation of researchers and students from outside Italy.

Symposia include: - EVOLUTIONARY APPLICATIONS FOR BIOSYSTEMS AND AGRICULTURE: Chairs: G. Anfora and C. Varotto (FEM). Speakers include: Andres Moya (Universitat de València), Carlo Soave (UMilan), Roberto Papa (University of Foggia), Elisa Frasnelli (CIMEC, UTrento) and more. - EVOLUTIONARY GENOMICS AND BIOINFORMATICS: Chairs: M. Sironi (IRCCS MEDEA) and D. Sargent (FEM). Confirmed speakers: Francois Balloux (UCL). - EVOLUTIONARY MEDICINE AND HEALTH: Chairs: C. de Filippo and H. Hauffe (FEM). Confirmed speakers: Duccio Cavalieri and Kieran Tuohy (FEM). - LIFE THROUGH TIME: PALEOBIOLOGY AND PALEOBIODIVERSITY: Chairs: S. Renesto and G. Binelli (UInsubria). Speakers include: Mike Benton (UBristol), Davide Pisani (UBristol), Evelyn Kustatscher (LMUMünchen), Giorgio Carnevale (UTorino), Stefano Dominici (UFlorence) and more. - BIODIVERSITY 3D: THE INTERRELATIONS AMONG GENES, SPECIES, AND ECOSYSTEMS: Chairs: C. Vernesi (FEM) and I. Scotti (INRA). Confirmed speakers: Mike Bruford (UCardiff), Krystal Tolley (SANBI). - WALLACE DAY: Chairs: M. Bernardi and M. Mengon (MUSE). An afternoon dedicated to communicating evolution and science to the public, held at MUSE, featuring “entomological” coffee break and aperitif.

The congress is the result of a collaboration between SIBE, Fondazione Edmund Mach, MUSE Trento Science Museum, and the University of Trento/CIBIO. Trento is easy accessible by train from Verona (1 hour), south Germany (4 hours), Austria (3 hours), Milan (3 hours), and from the rest of Europe with Verona and Milan airports. For more information on the location, please visit <http://www.visittrentino.it/en>. The congress dinner, included in the registration fees, will be held on Friday 30th August at the new Science Museum MUSE designed by Renzo Piano. Registration and abstract submission are open until 23rd June, and shortly after we will communicate the decision on which abstracts will be presented as talks. For any query, please visit www.evoluzione2013.it or follow us on <http://www.facebook.com/home.php#!/-events/140997482747661/> or contact one of the chairs: omar.rota@fmach.it, lino.ometto@fmach.it

– Omar Rota-Stabelli PhD Marie Curie - PAT postdoctoral fellow Department of Sustainable Agroecosystems and Bioresources, IASMA Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige, (TN), Italy tel: ++39 0461 615 393 fax : ++39 0461 615 500 Honorary Research Associate of the School of Biological Sciences, University of Bristol

Italian Society for Evolutionary Biology www.sibeb.it The Systematics Association <http://www.systass.org/> Omar's scholar <http://scholar.google.it/citations?user=3Dof14yMwAAAAJ>
omar.rota@fmach.it

UAB Spain Rupicapra Evolution Oct24-25

Dear EvolDir members

On behalf of the organizing committee of the 2nd International Symposium on genus *Rupicapra*, it will be my great pleasure to welcome you to Bellver de Cerdanya (Catalonia, Spain) on 24-25 October 2013. This international meeting aims to bring together scientists, managers, hunters, farmers and naturalists to identify current knowledge gaps in the fields of Biology, Health, Monitoring and Management of this fascinating caprine genus. This effort will be particularly relevant given the current financial crisis and EU policies that encourage researchers to collaborate, but also due to clear evidence of the effects of global changes of mountain ecosystems worldwide. This emerging threat requires a reconsideration of the future research agenda for *Rupicapra* research.

More information can be found on the conference website at

<http://www.rupicaprasymposium.wnature.org/-index.php?lang=en> I hope to see you in Bellver de Cerdanya in October 2013!

The best

Emmanuel Serrano

Dr. Emmanuel Serrano Ferron Investigador asociado, programa Beatriu de Pinós Servei d' Ecopatologia de Fauna Salvatge (SEFaS) Departament de Medicina i Cirurgia Animals Facultat de Veterinària Universitat Autònoma de Barcelona (UAB) E-08193, Bellaterra, Barcelona (Spain) Tl: +34.935868190 Fax: +34.935812006 E-mail: emmanuel.serrano@uab.cat <http://www.uab.sefas.cat> Current address: Estadística i Investigació Operativa, Departament de Matemàtica, Universitat de Lleida. Lleida, Spain.

Emmanuel Antonio Serrano Ferron
<Emmanuel.Serrano@uab.cat>

UBath Evolutionary Biology

Lecturer/Senior Lecturer/Reader

University of Bath, Department of Biology and Biochemistry

We are seeking an evolutionary biologist with an established research reputation, and the potential to sustain this through securing external funding at Bath. Evolutionary biology is here broadly defined, including, but not limited to, subject areas as disparate as comparative genomics, evolutionary systems biology, behavioural ecology and palaeontology. Candidates with interests in experimental or applied evolution, potentially with medical or epidemiological relevance, are encouraged to apply. An interest in collaborating with academics in the Department, its associated research centres, and in the Faculty of Science and University more widely is desirable, to gain maximum advantage from interdisciplinary research. Candidates will be expected to present their strategy for obtaining external funding to support their research. The appointment level (Lecturer/Senior Lecturer/Reader) will be dependent on the experience of the successful candidate.

The Department of Biology and Biochemistry is ranked 2nd in The Sunday Times University Guide 2013 Biology subject league table, and consistently receives very high student satisfaction in the NSS. With 46 academic staff our research is diverse and in the Research Assessment Exercise 2008, 90% of our research was judged to be internationally recognised, excellent or world-leading. We publish approximately 125 papers each year in peer reviewed journals and our current research grant portfolio stands at £12.5 million. We have over 80 full time postgraduate students.

Further details of the position can be found here:

<http://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-VH1596> Further details of the department are here:

<http://www.bath.ac.uk/bio-sci/research/> Laurence D. Hurst Royal Society Wolfson Research Merit Award Holder Professor of Evolutionary Genetics Department of Biology and Biochemistry University of Bath Bath Somerset, UK BA2 7AY

tel: +44 (0)1225 386424 fax: +44 (0)1225 386779 email: l.d.hurst@bath.ac.uk website:

<http://people.bath.ac.uk/bsslldh/LaurenceDHurst/-Home.html> Laurence Hurst <bsslldh@bath.ac.uk>

UNSW Sydney
Genetics Society of AustralAsia
14-17 Jul

Genetics Society of AustralAsia Conference

The GSA 2013 Conference will be held at the University of New South Wales (UNSW; Sydney, Australia) from 14 to 17 July 2013. The conference will span the entire field of Genetics, and will include speakers from Australasia and around the world. Each day of the conference will include a plenary lecture by an eminent invited speaker, followed by several concurrent symposia. The conference will also include a poster session and specialist workshops on the widely-used software packages BEAST and GenA1Ex. Social events will provide an opportunity to explore the many sights of Sydney.

More information can be found on the conference website at <http://conference2013.genetics.org.au/>. Note that abstract submission and early bird registration close on 13 May 2013.

For general enquiries please contact Professor Bill Ballard (w.ballard@unsw.edu.au), School of Biotechnology and Biomolecular Sciences, UNSW.

s.delaney@unsw.edu.au

UNewSouthWales SocialEvolution
Feb2-5

Cooperation and Conflict in the Family Conference < <http://www.evolveconomics.com/> > First announcement - see <http://www.evolveconomics.com/> The Cooperation and Conflict in the Family conference will be held at UNSW in Sydney, Australia from February 2-5 2014.

The conference provides an opportunity for researchers to discuss the economic and evolutionary biology approaches to these issues, explore common ground and identify collaborative opportunities. Areas of interest include: We will bring together leading economic and

evolutionary researchers to explore the nature of conflict and cooperation between the sexes in the areas of marriage, mating and fertility.

* Conflict in mating: How does conflict between the reproductive interests of men and women affect mating markets and sexual strategies? * Fertility: How is the fertility decision made in marriage? What are the trade-offs between quality and quantity of children? What factors are behind the demographic transition and low fertility of the modern era? * Investment: How do the competing interests of men and women affect parenting behaviour, work and household decisions?

DESCRIPTION

Economics and evolutionary biology have a rich history of analysis of cooperation and conflict in the family. Evolutionary biology sources the beginnings of this analysis to the work of Darwin in the mid to late 19th-century, while the economic study of the family has origins that are more recent, dating to the late 1950s. Since then, however, a strong tradition has emerged of the application of the economic approach to fertility, marriage, mating markets and investment in the quality and quantity of children.

While the ground being explored is common, the economic and evolutionary approaches are rarely reconciled. Particularly, the concepts of fitness and utility, which lie at the heart of evolutionary biology and economics, have not been unified across the disciplines. Fitness provides a basis for the emergence of traits and preferences, while in an economic utility framework they are assumed.

Cooperation and conflict in the family provides a fertile area to build a bridge between these concepts. In recent decades, understanding of family dynamics has been revolutionised by parallel insights in evolution (sexual conflict theory) and economics that the interests of men and women can diverge, altering the balance between cooperation and conflict within the family.

In February 2014, Sydney will play host to an unprecedented gathering of economic and evolutionary thinkers who will explore the potential for a closer synthesis between evolution and economics in order to address the compelling mysteries that surround sex and reproduction.

CONFIRMED SPEAKERS

* David Barash < https://www.google.com.au/-url?sa=3Dt&rct=3Dj&q=3D&esrc=s&source=-web&cd=1&cad=rja&ved=0CDQQFjAA&url=http%3A%2F%2Ffaculty.washington.edu%2Fdpbarash%2F&ei=20lAUeDaJqWkiAf6_4DwCQ&usg=-

AFQjCNEPPXCJ7UmbQAT-Mv1KXSCuuen13A&sig2=-xlBaWqv8y4uPUW4AmR5Maw&bvm=-bv.43287494,d.aGc >, University of Washington * Monique Borgerhoff Mulder < <http://anthropology.ucdavis.edu/people/fzborger> >, University of California Davis * Lena Edlund < <http://jagiellonia.econ.columbia.edu/~le93/> >, Columbia University * Joe Henrich < <http://www2.psych.ubc.ca/~henrich/> >, University of British Columbia * Michael Jennions < http://biology.anu.edu.au/hosted_sites/-jennions/ >, Australian National University * Hillard Kaplan < <http://www.unm.edu/~hkaplan/> >, University of New Mexico * Hanna Kokko < http://biology.anu.edu.au/hosted_sites/kokko/ >, Australian National University * Jason Potts < <http://www.rmit.edu.au/browse/About%20RMIT%2F;ID=3Dc5w026edczcm1;STATUS=A?QRY=-economics&STYP> >, Royal Melbourne Institute of Technology

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UNotreDame ArthropodGenomics Jun12-15

7th Annual Arthropod Genomics Symposium
ARTHROPOD GENOMICS 2013 ONWARD

Friday, March 29, 2013: Early Bird Registration Deadline
Friday, March 29, 2013: Submit Poster Abstracts Due

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

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

The Arthropod Genomics Symposium will begin Thursday evening, June 13, 2013, and conclude late afternoon on Saturday, June 15, 2013 (an optional dinner is scheduled for Saturday night).

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

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

UNotreDame ArthropodGenomics Jun13-15 TravelGrant

The Early Registration Deadline has been extended through Friday, April 19, 2013. Take advantage of the early registration rates!!

An Arthropod Genomics Symposium Travel Grant is being offered to support registration, lodging, and transportation to attend the 7th Annual Arthropod Genomics Symposium held at the University of Notre Dame from June 13 - June 15, 2013. Postdoctoral fellows and graduate students will be eligible to apply for funding; applications from individuals who do not have other financial support for the meeting will be favored.

The grant will cover: (1) registration to the symposium - \$375 for postdocs, \$175 for graduate students, (2) three nights residence hall lodging - \$52/night, and (3) up to \$1,000 for transportation costs.

The application must include: (1) CV - limited to two pages, (2) estimated cost of transportation, (3) abstract for poster presentation, (4) a paragraph on why you are interested in attending the symposium, including how your participation will increase diversity and add to the discussion, and (5) justification of your financial need.

Please send request for funding and required materials to the Eck Institute for Global Health (eigh@nd.edu) by April 5, 2013. All applications will be reviewed and applicants will be notified by April 15, 2013 on the status of the award.

The 2013 Symposium is sponsored by the University of Notre Dame Eck Institute for Global Health, Kansas State University Arthropod Genomics Consortium, and the University of Illinois, Urbana-Champaign.

eigh@nd.edu

UStAndrews EvolutionMatingSystems Sep4-6

SECOND NOTICE AND CALL FOR ABSTRACTS
“Thirty years of Thornhill & Alcock: The Evolution of
Insect Mating Systems”

ENTO 13: Royal Entomological Society International
Symposium and National Science Meeting. 4th-6th
September 2013, University of St Andrews, Scotland.

Online registration is now open for ENTO 13. ENTO
13 will comprise an international symposium celebrat-
ing 30 years of Thornhill & Alcock’s landmark publica-
tion on the evolution of insect mating systems, with ple-
nary talks from 15 leading researchers from the around
the world. There will also be the National Science
Meeting, for which we invite contributed talks and
posters on research associated with one of our seven
themed sessions or on any topic in entomology for one
of our open sessions.

Themed sessions for the National Meeting include: Sex-
ual Selection in Insects; Nuptial Feeding in Insects; Pol-
linator Behaviour, Ecology and Evolution; Beneficial
Insects: Biological Control and Beyond; Entomology
for the Masses: Impact and Outreach; Insect Commu-
nity Ecology; Insect Genomics.

Online registration can be found here: <http://www.royensoc.co.uk/register/> Full details of ENTO
13 and how to offer talks and posters can be found
here: <http://www.royensoc.co.uk/content/ento-13-4-6-september-2013> DEADLINE for early-bird registration
and abstract submission is 30th April 2013

For further information please email: ento13@st-
andrews.ac.uk International Symposium Convenors:
David Shuker (david.shuker@st-andrews.ac.uk) and
Leigh Simmons (leigh.simmons@uwa.edu.au) National
Science Meeting Convenor: Graham Stone (gra-
ham.stone@ed.ac.uk)

Dr David M Shuker School of Biology University of St
Andrews Harold Mitchell Building St Andrews KY16
9TH UK

Tel: +44 1334 463376 Fax: +44 1334 464466

Email: david.shuker@st-andrews.ac.uk

Website: <http://insects.st-andrews.ac.uk> dms14@st-
andrews.ac.uk

Utah Evol2013 Jun21-25
UndergradDiversity TravelAward

Undergraduate Diversity at Evolution 2013

We are pleased to announce an undergraduate travel
award to bring talented and diverse undergraduates to
the Evolution meetings this June 21-25 in Snowbird,
Utah. For the 11th year in a row we will fly a cohort
of undergraduates from throughout the US and Puerto
Rico to present a poster at the meetings, receive men-
toring from graduate students, postdocs and faculty,
and participate in a career-oriented ‘Undergraduate Fu-
tures in Evolutionary Biology’ panel and discussion.
The program covers the costs of travel, registration,
food and accommodation at the meetings.

The application deadline is Friday, April 5th, and deci-
sions will be announced by Friday, April 12th. Appli-
cations are welcomed from all undergraduates, and the
admissions goal is to create a diverse pool of students.

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

www.nescent.org/eog/undergraddiversity Applications
consist of a short statement of interest, a letter of rec-
ommendation and the title and abstract of the poster
to be presented.

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

For inquires contact one of the organizers:

Scott Edwards - sedwards@oeb.harvard.edu

Richard Kliman - rmkliman@cedarcrest.edu

Jory Weintraub - jory@nescent.org

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

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

Zurich TreeAdaptation Sep1-5

may I ask you to advertise in your network for the conference ClimTree 2013 that partly concerns population genetics (e.g.: session on 'Adaptability of tree species to CC (phenotypic plasticity, genotypic variation)').

Best Tom

ClimTree 2012: International Conference on Climate Change and Tree Responses in Central European Forests

Zürich, September 1 - 5, 2013

Zurich invites you to the ClimTree 2013 conference in early September of this year. In total, 8 keynotes and 12 introductory talks across 12 sessions will frame this conference, which aims to present state-of-the-art research regarding direct (physical environment) and indirect effects (interspecific interactions) of Climate Change (CC) on the performance of trees and forest ecosystems in Central Europe.

2nd Circular and Call for Papers : [http://-](http://www.climtree2013.org/)

www.climtree2013.org/ Hope to see you in Zurich in September! Organizing team: Thomas Wohlgemuth, WSL Birmensdorf, Switzerland (head; thomas.wohlgemuth@wsl.ch) Peter Bebi, WSL-SLF Davos, Switzerland Harald Bugmann, ETH Zürich, Switzerland Kathrin Priewasser, WSL Birmensdorf, Switzerland Susanne Raschle, WSL Birmensdorf, Switzerland Cyrille Rathgeber, LERFoB, Nancy, France Andreas Rigling, WSL Birmensdorf, Switzerland Andreas Schuck, EFICIENT-OEF, Freiburg i.Br., International Heinrich Spiecker, Univ. Freiburg i.Br., Germany

Dr. Thomas Wohlgemuth WSL Swiss Federal Research Institute Zürcherstr. 111, CH-8903 Birmensdorf Switzerland

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Thomas Wohlgemuth <thomas.wohlgemuth@wsl.ch>

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Basel Conservation Biogeography

PhD Position at the Centre for African Studies
Basel/Environmental Sciences Department in Conservation Biogeography

The Centre for African Studies Basel calls for applications for two doctoral positions in the Environmental Sciences Department funded by the Humer Foundation (Humer-Stiftung zur Förderung des wissenschaftlichen Nachwuchses).

The research falls into our research axis Environment and Development and is to be carried out within the framework of the interdisciplinary project Ecosystem Services and Vulnerability, which seeks to contribute to a better understanding of the effects of habitat modification on biodiversity, and their consequences on people's livelihood. Applicants shall demonstrate their suitability for successfully addressing one of the two sub-projects listed in the attachment. The funding allows promising researchers to commit themselves fully to their projects over a period of three years. Applicants have to fulfil the conditions for admission to PhD studies in Geography, Geosciences, Environmental Sciences or Zoology at the Science Faculty of the University of Basel. The researchers will carry out their projects within the research groups Biogeography and Physical Geography respectively but will also be trained in the framework of the interdisciplinary PhD programme in African Studies, which offers a framework for PhD students in all disciplines at the University of Basel working on African issues.

Subproject 1: Biodiversity value of the coastal lowland forests of mainland and island areas of Tanzania Future conservation policies have to take account of the genetic diversity within each species. We aim to conduct a large-scale study into amphibians found throughout the Coastal Lowlands of Tanzania to test whether environments where genetic diversity of species is the highest are those with the greatest number of species.

Biodiversity loss is currently occurring at unrivalled rate and this has been causally linked mainly to human land use changes. This loss of biodiversity is of major ecological, economical and societal concern. Implementation of measures that limit the extinction of species and preserves the evolutionary processes that sustain biodiversity is vital. However, where might these places of high biodiversity exist in Africa and how accurately can we measure them? Taking a case study area in the

lowland Tanzanian coastal forests we intend to test this question using up to date modern molecular systematic and macro-ecological approaches.

Very little is known about African assemblages in relation genetic diversity and their conservation value. We will establish a fine-grained inventory of the amphibian fauna of the coastal lowlands. The coastal lowlands are poorly understood and of high conservation threat. We aim to evaluate biodiversity across this region, looking at different measures and approaches to best optimize conservation strategies. For this project we are looking for a highly motivated individual who is interested in biodiversity and conservation biogeography.

Submission: The application is to be submitted by email to veit.arlt@unibas.ch, whereby the documents marked with an asterix shall be assembled in one single pdf document in the order as listed above.

Deadline: 15 April 2013

Requirements: - Applicants must hold an excellent MSc degree or equivalent qualification in Geosciences and/or Biosciences or related disciplines (depending on the sub-projects listed in the attachment); - have very good English language skills; - be ready to take up their project by 1 September 2013.

Your application includes: - * a letter of motivation (not exceeding two pages) with special reference to the research topic and one of the two sub-projects; - * a curriculum vitae (not exceeding two pages); - * two letters of recommendation by university professors; - * copies of undergraduate and postgraduate diplomas complete with transcripts; - an electronic copy of your MSc-thesis; - electronic copies of published articles or other academic contributions (if applicable).

Further information:

- See the description of the research project Ecosystem Services and Vulnerability attached. - Visit our websites: www.zasb.unibas.ch, www.duw.unibas.ch.

Dr Simon Loader Department of Environmental Sciences Biogeography University of Basel Klingelbergstr. 27 CH-4056 Basel Switzerland

Tel: ++41 61 267 07 23 e-mail: Simon.Loader@unibas.ch google e-mail: simon.p.loader@gmail.com Homepage: <http://www.biogeography.unibas.ch/loader> Associate Editor, The Herpetological Journal: <http://www.ingentaconnect.com/content/bhs/thj> IUCN SSC Amphibian Specialist Group Regional Chair for East Africa

Simon Loader <simon.p.loader@gmail.com>

DurhamU DogDomestication ChineseMegafauna

Two new NERC-funded Phd positions available.

Starting Oct 1, 2013 for three years.

Deadline for applications April 15, 2013.

The Department of Archaeology has two Natural Environmental Research Council funded PhD studentships (A and B) starting on 30 September 2013 to award to suitable applicants.

These studentships last for three years, cover the full cost of tuition fees for UK students, pays an annual tax-free stipend, and have an annual Research Support and Training Grant.

Eligibility for these posts is as follows:

-UK students are eligible for fees, stipend and research costs

-EU students who have been resident in the UK for 3 years immediately prior to the start of the award (including full-time education) are also entitled for a full award

-EU students are eligible for fees but not for the stipend or the research costs

-Non-EU students are unfortunately not eligible to apply

We encourage all applicants to apply for more than one project. In order to apply, please send the following:

- 1) Your Curriculum Vitae
- 2) A covering letter explaining why you are well qualified for the project for which you wish to be considered. If you are applying for more than one project, please provide a covering letter for each and specify the project code in your letter.
- 3) Two letters of recommendation in support of your application.
- 4) Apply on line through Durham University's website at: www.dur.ac.uk or via this link

https://banss.dur.ac.uk/blive.ssb/-bwskaLog.P_DisPLoginNon To Helen Wood, post-graduate secretary (Helen.wood@durham.ac.uk) by:

Monday, April 15th, 2013

Studentship A: Tied studentship for the following project:

Testing Pleistocene Dog Domestication by Combining Ancient DNA and Morphometrics

Primary Supervisors: Dr Greger Larson (Durham University), Prof Keith Dobney (University of Aberdeen), Prof. Jean-Denis Vigne (Natural History Museum, Paris), Dr. Mietje Germompren (Natural History Museum, Brussels), Dr. Susan Crockford (University of Victoria, Canada)

The dog is unique amongst the domesticated animals in being not only the first species to be domesticated, but also to be the only domestic animal to predate the advent of farming. Though there is a pervasive uncertainty regarding where and how many times dogs were domesticated, most researchers are confident that true dogs appear across the Old World at about 15kya.

There sudden appearance in disparate geographic locations, however, has led some researchers to suggest a more intimate and deeper antiquity to wolf-human interaction. In fact, recent evidence has been interpreted to suggest that domestic (or incipient) dogs were present before the Last Glacial Maximum in Belgium, the Czech Republic, and southwestern Siberia. Others, however, argue that these purported early dog remains represent either wolves going through the initial phases of an incomplete domestication process, short-faced wolves adapting to new feeding opportunities afforded by the debris available at human hunting sites, or simply individuals from morphologically distinct or variable local populations of Late Pleistocene wolves.

As part of NERC-funded research grant, this tied studentship will systematically collect 2D and 3D data of dental, cranial and specific skeletal morphologies from both the early fossil canids from Belgium, the Czech Republic and S.W. Siberia, as well as from some additional (contemporary) sites across the project study area. In addition, the student will extract DNA from fossil material and generate both mitochondrial and nuclear datasets. The GM and DNA results will be compared to data generated as part of the larger project in order to ascertain the degree of similarity of these early canids to the dogs and wolves from more recent contexts. These analyses will provide a significant advance on our current limited understanding of the status of these remains, and certainly suggest whether dogs were domesticated nearly 20,000 years early than the currently accepted appearance of the first dogs.

Project details The PhD student will be jointly registered and supervised between the University of Aberdeen and Durham University (Archaeology Depart-

ments). An MoU already exists between the two Institutions in terms of official provision, supervision and award of a PhD programme. Data for this student project will be collected in tandem with the material required for the broader dog domestication baseline data collection and analyses.

Although some experience with either genetics, bioinformatics, zooarchaeology, evolutionary biology and/or morphometric techniques is ideal, the student will be given advanced training in all of these techniques by the project team, and will work closely with international collaborators. GMM training will take place at the Natural History

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

GoettingenU StatisticalGenetics

Dear colleagues,

please consider the following advertisement of a PhD position.

Best regards

Henner Simianer

The Centre for Statistics at Goettingen University, Germany, is inviting applications for

1 PhD Position in Statistical Genetics

(75 % E 13 TV-L, ~ 45k gross income p.a.)

within the Research Training Group (RTG) 1644 Scaling Problems in Statistics, funded by the German Research Foundation (DFG). The position is open from October 1, 2013 and is funded for 3 years.

The highly interdisciplinary Research Training Group aims at the solution of current questions in the areas of agricultural economics, ecology, econometrics, genetics, and remote sensing by means of statistical methods, and at the development of the latter. It distinguishes itself through joint supervision and a structured study program consisting of methodologically oriented lectures, interdisciplinary research seminars and skills courses, and includes a career enhancement program for female PhD students.

The Research Training Group involves working groups from Agroecology, Agricultural Economics and Rural Development, Animal Breeding and Genetics, Ecosystem Modelling, Forest Inventory and Remote Sensing, Genetic Epidemiology, Mathematical Stochastics, Statistics and Econometrics. For more information, visit www.uni-goettingen.de/rtg1644 The advertised position will be located at the Department of Animal Sciences in the Animal Breeding and Genetics Group of Prof. Henner Simianer (<http://www.uni-goettingen.de/en/92842.html>)

In the planned project Modeling allele and haplotype dynamics in fragmented and structured populations methods will be developed and tested to model the dynamics of allele and haplotype frequencies in fragmented and structured populations. Starting from existing theory and methods new or improved approaches will be developed and their performance will be assessed with simulated data. A specific aim is to develop tools to generate distributions of selection signature statistics under the null-hypothesis of no selection in structured populations. Validated approaches will be applied to high density genotype or sequence data of real populations with with known population history. For more details, visit www.uni-goettingen.de/rtg1644/jobs The successful candidate holds a M.Sc. degree or equivalent in agricultural sciences, statistics, mathematics, physics, or in related fields, ideally with a good knowledge both in quantitative/ population genetics and statistics. Very good knowledge of English is required.

Goettingen University is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply.

Disabled persons with equivalent aptitude will be favored.

To apply for this position, please upload your application via the online application site <https://s-lotus.gwdg.de/uni/uwfb/rtg1644-2013.nsf/enter> Further application details you find on that site. The closing date for applications is May 15, 2013.

Contact: Coordinator Barbara Strauss (b Strauss@uni-goettingen.de) or Henner Simianer (hsimian@gwdg.de)

Dr. Henner Simianer Professor of Animal Breeding and Genetics Department of Animal Sciences Georg-August-University Goettingen Albrecht-Thaer-Weg 3, 37075 Goettingen

Tel.: +49-551-395604, Fax: +49-551-395587

Email: hsimian@gwdg.de

<http://www.uni-goettingen.de/tierzucht> “Simianer, Henner” <hsimian@gwdg.de>

Complete application procedures and programme information are available at:

http://www.igc.gulbenkian.pt/pages/facilities.php/-A=3D169__collection=3Darticle saranlcarvalho@gmail.com

IGC Lisbon EvolutionaryBiology

INSTITUTO GULBENKIAN DE CIÊNCIA

PHD PROGRAMME IN INTEGRATIVE BIOLOGY & BIOMEDICINE International programme at the Instituto Gulbenkian de Ciência Call for Applications

The Instituto Gulbenkian de Ciência (IGC) is now accepting applications for the 2014 class of its PhD Programme in Integrative Biology and Biomedicine (IBB). We are looking for highly motivated and independent thinkers who aspire to conduct innovative, risk-taking, multidisciplinary research. The Programme demands a strong interest in organism-centered biology on a solid cell & molecular basis, within an evolutionary framework. Candidates from all areas are welcome, including those outside biology and medicine. There is no age limit, and candidates at all stages, from recent graduates to experienced professionals, are encouraged to apply.

The IGC is a center for excellence in the Life Sciences, an international community of over 300 researchers, students and staff working in evolution, development, cell biology, immunology, neuroscience and more, using model systems ranging from plants to worms, flies, fish, mice and humans. Candidates with background and interests in mathematical modeling, bioinformatics and computational biology are also welcome at the IGC. Our students are strongly encouraged to design projects that integrate different areas, and take full advantage of our co-operative research environment. For information on specific laboratories and areas of research, go to:

http://www.igc.gulbenkian.pt/pages/groups.php/A=3D143__collection=3Darticle__group=1 The IGC campus is located just outside of Lisbon, within walking distance of the sea and of several other research institutions, with complementary strengths in structural biology and biochemistry. Selected students will receive six months of classes and workshops taught by leading experts from around the world, before developing a thesis project to be performed over three and a half years. Full tuition and stipend for 4 years of study for successful applicants is available. The deadline for applications is March 30th, 2013.

MaxPlanck 8 EvolutionaryBiology

The *International* Max Planck Research School *for Evolutionary Biology*

is offering *up to* 8 PhD fellowships*.

The graduate school is dedicated to highest level of research and training in all areas of contemporary Evolutionary Biology. It is a joint initiative of the Max Planck Institute for Evolutionary Biology, the University of Kiel and the Helmholtz Center for Ocean Research Kiel (GEOMAR). The school offers an internationally competitive research environment with state of art facilities. The participating groups are working on a broad variety of scientific topics including molecular, behavioral, theoretical and organismal approaches.

The graduate program starts with a rotation period of three months followed by a PhD project of three years including seminars, courses and workshops. The language of the graduate school is English. Financial support is provided throughout the program.

To obtain further information about our PhD program and application details please visit our website at <http://imprs.evolbio.mpg.de>. Well-motivated and highly-qualified students from all countries are welcome to apply. A Master of Science degree or a Diploma as well as a strong interest in Evolutionary Biology and flexibility in the research project are prerequisites for entering the program. We are looking forward to your online application for a PhD fellowship in the beautiful landscape of Northern Germany.

The deadline for applications is April 14, 2013.

Selection days will be held on June 18/19 and the program itself starts on September 16, 2013.

Contact: Dr. Kerstin Mehnert,

August-Thienemann-Str. 2, 24306 Plön, Germany

email: imprs@evolbio.mpg.de phone: +49(0)4522 763 233

The coordinator

Kerstin Mehnert

The steering committee

Diethard Tautz, Hinrich Schulenburg, Manfred Milinski and Thorsten Reusch

Dr. Kerstin Mehnert Scientific Coordinator IMPRS, Press and Public Relations, International Office

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www.evolbio.mpg.de, imprs.evolbio.mpg.de

Kerstin Mehnert <mehnert@evolbio.mpg.de>

alent of ~\$33,000 before tax) with no teaching requirements for 3.5 years (the length of a PhD in Australia). Funding of project costs are covered, including attending at least one conference per year. The project start date can be any time in 2013, although an early start is preferred.

Interested students should send their CV, a brief statement of their research interests and the contact details of two referees to melodie.mcgeoch@monash.edu. Applicants must preferably have completed at least one year of post-graduate research (including Honours or Masters) and evidence of published research will be an advantage. Preference will be given to those with a botany or entomology major, an ecology and/or soil science background and strong quantitative skills, including experience in multivariate analysis, spatial statistics, GIS and programming in R (or alternative).

jmkalwij@hotmail.com

Melbourne 2 ConservationBiology

Two PhD positions in ecology (Melbourne, Australia)

Two Ecology/Conservation Ecology PhD positions are available on the spatial ecology of dynamic communities and the function of invaded landscapes Deadline for applications: 2 April 2013 Two fully-funded PhD stipends are available to students interested in working on the ecology of dynamic communities (such as alien species communities or those responding to climate change) in Associate Professor Melodie McGeoch's collaborative research group. She has recently joined Monash University in Melbourne, Australia (<http://monash.edu/science/about/schools/biological-sciences/staff/mcgeoch/index.html>). One of the positions will be co-supervised by Dr Cang Hui (<http://academic.sun.ac.za/cib/team/academic/-chui.asp>) and will involve a field-based research trip to Cape Town, South Africa. The second position will be co-supervised by Dr Heloise Gibb (<http://www.latrobe.edu.au/scitecheng/about/staff/-profile?uname=3DHGibb>), currently based at LaTrobe University, Melbourne.

The research will involve working with native and alien plant communities, using a combination of existing data, field-based data and modelling. The balance between field work and modelling involved in the research will differ between the two positions. The project design will be developed in collaboration between the student and supervisors. The stipend includes all course fees plus ~\$25,000 AU per annum tax free (the equiv-

NatIUSingapore ButterflyEvoDevo

A series of PhD positions and one postdoctoral position will be opening in the lab of Antonia Monteiro at the National University of Singapore (NUS) from July 2013 onwards. Students/postdocs who are interested in investigating the molecular and developmental basis of wing pattern evolution and/or the molecular/physiological basis of wing pattern learning in butterflies are encouraged to apply to the graduate program at NUS (<http://www.dbs.nus.edu.sg/>) or enquire directly with A. Monteiro. There are two deadlines a year for PhD applicants, one in May 15, with entrance in January, and one in Nov 15, with entrance in August. The minimum GRE requirements for the graduate program (Masters and PhD) are verbal, 500; quantitative, 700; written analytical, 3.5, or GATE (minimum 90 percentile). Applicants who did not have their earlier education in the English language should also provide TOEFL scores (minimum 85 for internet-based test). If interested please contact antonia.monteiro@yale.edu.

Antónia Monteiro <antonia.monteiro@yale.edu>

QueensU Belfast LampreyEvolution

Please see the link below for a 3 year PhD position on the evolution and ecology of lampreys at Queen's University, Belfast. <http://www.findaphd.com/-search/ProjectDetails.aspx?PJID=43822&LID=110>

The project is co-supervised by myself and Paulo Prodöhl and will include molecular genetics, stable isotope ecology and population biology. It is open to EU/UK students, and the deadline for applications is March 29 2013.

Please forward to suitable students/friends/colleagues.

All the best Chris

Dr Chris Harrod* Lecturer in Fish & Aquatic Ecology, Queen's University Belfast School of Biological Sciences, 97 Lisburn Road, Belfast BT9 7BL, UK c.harrod@qub.ac.uk UK Mobile: +44 (0) 7977419314 UK Office: +44 (0) 2890972271

*Chile address Instituto de Investigaciones Oceanológicas, Universidad de Antofagasta, Avenida Angamos 601, Antofagasta, Chile *Chile Mobile: +56 9 7399 7792 *Chile Office: +56 55 637400 <http://www.qub.ac.uk/schools/SchoolofBiologicalSciences/-Staff/DrCHarrod> >

Chris Harrod <c.harrod@qub.ac.uk>

StockholmU Butterfly Genomics

Butterfly ecological and evolutionary functional genomics

1 PhD position at the Department of Zoology, Stockholm University in the group of Dr. Christopher W. Wheat. The PhD position is funded for 4 years, with the potential to extend the position to 5 years through moderate teaching commitment.

Rapid advances in genomic sequencing and bioinformatics now provide the opportunity to find the variation affecting traits that have fitness consequences in the wild. Importantly, these advances allow for species with well studied ecologies to now be the focus of functional genomic study. We have just received extensive financial support from the Knut & Alice Wallenberg Foundation and the Swedish Research Council, for our project 'Insect life cycle genomics and adaptation in the wild'.

The project is an Ecological and Evolutionary Functional Genomics (EEFG) collaboration, bringing together researchers with expertise in population genet-

ics, ecology, ethology, morphology, immunology and molecular genetics with the aim to uncover how organisms manifest a life cycle that is adapted to local environmental conditions. The central idea of the project is to address this difficult questions using an integrative approach, leveraging insights gained from two insect systems: the green-veined white butterfly *Pieris napi* and the fruit fly *Drosophila melanogaster*. Our goal is to use genomic tools to study *P. napi* populations adapted to different ecological situations, and when we find genes that are candidates for being involved in such adaptation we will study their effects in the *Drosophila* system. We will initially target three phenotypes: diapause, wing pattern and immunity.

The research will take place within the population genetics and ecology groups, which are composed of internationally recognized leaders in butterfly ecological research with a long history of study on *Pieris* butterflies. We will make use of existing genomics and bioinformatics platforms at e.g. SciLifeLab (www.scilifelab.se) for next generation sequencing, RNA-Seq and other high-throughput services, including high-performance computational analyses (<http://www.uppmax.uu.se>). Currently we are in the process of generating a high quality genome for *Pieris napi*, as we will be using this extensively for our genomic analyses.

The Phd position will include all steps from field- and laboratory experiments to analysis of genomic data and gene expression (RNA-Seq).

Qualification and competence To be qualified for research studies in population genetics the applicant must have completed a research degree (e.g. Master's), or have passed at least 120 hp (2 years) of biological studies, including an approved independent project of at least 30 hp at advanced level ('examensarbete') within population genetics or a related subject. Applicants, who have in principle acquired the corresponding competence in Sweden, or abroad, are also qualified.

Undergraduate course work and research experience in areas relevant to the project work are expected. Experience with butterflies, programming, and bioinformatics, or interest these things, is of merit.

The holder of the position will also contribute to other related projects utilizing genomic tools in the department, such as Ekoklim (www.zoologi.su.se/ekoklim).

Formal announcement: http://www.zoologi.su.se/en/about/lediga/CW_Utlysning_popgen_02-13%20Eng_ny.pdf Link to Chris Wheat's website <http://www.christopherwheat.net> <http://www.zoologi.su.se/en/about/staff/person.php?suid=cwhea> Chris Wheat <chris@christopherwheat.net>

UBristol AnimalBehaviour

NEW TAUGHT MSc PROGRAMME IN ANIMAL BEHAVIOUR AT THE UNIVERSITY OF BRISTOL, UK

Please circulate to your students – a flyer for posting on notice-boards is here: <http://tinyurl.com/MScAnimBehav> This one-year, full-time Masters offers a unique opportunity for students to strengthen their knowledge and confidence in the study of how animals interact with both the physical and the social worlds they inhabit. This programme provides rigorous scientific training in animal behaviour for students aspiring to careers in animal biology, ecological and behavioural research, science communication, and wildlife management and conservation.

You will be taught by world-leading researchers, giving you the opportunity to learn about the latest, cutting-edge developments in animal behaviour, including behavioural ecology and evolution, optimisation and life history theory, sensory biology, decision-making, neural/physiological mechanisms of behaviour, social biology, and sexual selection. You will develop key transferable skills in statistics, data handling and presentation, scientific writing and communication, and research methods, and complete a substantial independent research project.

We welcome applications from talented UK and overseas graduates in Biological Sciences (or related disciplines) who are motivated to contribute to the next major breakthroughs in science.

Full prospectus details are here: http://www.bristol.ac.uk/prospectus/postgraduate/2013/-prog_details/SCIF/1102 Details of our postgraduate school, including information about our other new taught MSc in Agricultural Ecology, and the £50m facilities we will shortly be moving into are here: <http://www.bris.ac.uk/biology/courses/postgraduate/> – this page also has information about research degree opportunities (at MRes and PhD levels) within the School.

Please direct general queries to biol-postgrad@bristol.ac.uk, and specific queries about the course to sean.rands@bristol.ac.uk

sean.rands@bristol.ac.uk

UCanterbury NZ SpermCompetition

UCanterbury.NZ.Sperm.Competition PhD Position in postcopulatory sexual selection

We are looking for a highly motivated PhD student for a project based in New Zealand, examining adjustments made to ejaculate quality in response to an individual's social position. This 3-year project is part of a new Marsden grant led by Dr Patrice Rosengrave (University of Otago), in collaboration with Dr Tammy Steeves (University of Canterbury), Prof Boris Baer (The University of Western Australia), and Prof Bob Montgomerie (Queen's University, Canada). We will undertake a series of innovative experiments, using the chinook salmon (*Oncorhynchus tshawytscha*) as our model species, to determine whether changes in sperm quality observed in response to an individual's social position are the result of alterations in the gametes themselves, seminal fluid, or a combination of the two. We will also investigate how such changes in ejaculate quality influence a male's reproductive success during sperm competition. Travel to Prof Baer's lab in Perth is likely.

The successful applicant will have an interest in evolutionary biology, particularly in sexual selection and sperm competition. Strong background knowledge in statistical analyses and experimental design is essential. Previous field or laboratory experience is desirable but not necessary.

The PhD position will be based at the School of Biological Sciences at Canterbury University (UC). International students are encouraged to apply.

The successful candidate will secure a doctoral scholarship. Options include:

International UC Doctoral Scholarships: <http://www.canterbury.ac.nz/scholarshipsearch/-ScholarshipDetails.aspx?ScholarshipID=6935.128>,

Domestic UC Doctoral Scholarships: <http://www.canterbury.ac.nz/ScholarshipSearch/-ScholarshipDetails.aspx?ScholarshipID=6935.127>

The Closing date for UC scholarships is 15 May 2013. Potential international applicants are encouraged to consider funding options in their own country (eg, NSERC).

Informal pre-submission enquiries are welcome. Otherwise please send a formal submission including a Cur-

riculum Vitae, academic transcript, a sample of your written scientific work, the names of three referees and a cover letter to:

Dr. Patrice Rosengrave:
patrice.rosengrave@otago.ac.nz before 15 April 2011

<http://gemmell-lab.otago.ac.nz/index.php/-our-team/research-and-postdoc-research-fellows/14-patrice-rosengrave> <http://www.biol.canterbury.ac.nz/people/rosengrave.shtml>
<http://www.ciber.science.uwa.edu.au/-studentprojects.html>

Patrice Rosengrave PhD Postdoctoral Fellow Centre for Reproduction and Genomics Department of Anatomy University of Otago PO Box 913 Dunedin 9054 New Zealand

Mobile 027 526 8681 email:
patrice.rosengrave@otago.ac.nz http://anatomy.otago.ac.nz/research/GemmellLab/-Gemmell_Lab/People.html <http://www.crg.org.nz/patrice.rosengrave@otago.ac.nz>

UCanterbury New Zealand RNA Bioinformatics

RNA Bioinformatics PhD Opportunity

Applications close 30 April 2013

There is an open PhD position to study bioinformatic approaches to characterising non-coding RNAs at the University of Canterbury in New Zealand.

<http://www.biol.canterbury.ac.nz/phd-opportunity-bioinformatics.shtml> The successful candidate will be involved in analysing a wealth of data generated by new sequencing technologies. The research group has a broad range of interests including but not exclusive to the bioinformatic characterisation of novel RNA families, genome annotation of ncRNAs, RNA evolution, RNA pseudogenes and the analysis of gene expression data.

Candidates will be encouraged to contribute to public databases such as Rfam and Pfam and develop any corresponding Wikipedia entries. In the early months of the PhD project this work will help the candidate gain invaluable experience while developing their own research program. Once proficient in these skills the candidate will be encouraged to develop tools for classifying RNAs based upon homology, motif complements,

pseudogene status and/or experimental evidence.

The bioinformatics team at the Biomolecular Interaction Centre and the School of Biological Sciences is a new and dynamic group interested in the free and rapid dissemination of research discoveries. They collaborate widely, including with groups in the UK, Denmark, US, Sweden, Germany and beyond.

*For further enquiries please contact: * Paul Gardner (paul.gardner@canterbury.ac.nz) Required background

An honours or masters degree in a biological or mathematical discipline such as biochemistry, genetics, molecular biology, maths, statistics, physics, computer science or equivalent and a demonstrated interest in developing bioinformatic skills.

Closing date 30 April, 2013.

A PhD stipend of up to \$25,000 NZD including fees.

The funding is provided by a Rutherford Discovery Fellowship from the NZ government and is administered by the Royal Society of New Zealand.

Regulations regarding the PhD program at the University of Canterbury can be found here: http://www.canterbury.ac.nz/courses/grad_postgrad/-phd.shtml *Application:* Please email a CV, cover letter, the names of at least two referees and where you heard about this position to: paul.gardner@canterbury.ac.nz

Paul P. Gardner, Senior Lecturer, SBS2 Rm520, School of Biological Sciences < <http://www.biol.canterbury.ac.nz/> > University of Canterbury, New Zealand

Phone: +64 (0)3 364 2987 ext. 6742 Email: paul.gardner@canterbury.ac.nz

Me on the Intertubes: Staff page. < <http://tinyurl.com/ucppgardner> > Blog. < <http://rnainformation.blogspot.co.nz/> > Education material. < <https://sites.google.com/site/rnainformatics/> > Wikipedia. < <http://en.wikipedia.org/wiki/User:Ppgardne> > Twitter. < <https://twitter.com/ppgardne> > GoogleScholar. < <http://scholar.google.co.nz/citations?user=yag55pAAAAAJ&hl=en> > Github. < <https://github.com/ppgardne> > Rfam. < <http://rfam.sanger.ac.uk/> > RDF. < <http://www.royalsociety.org.nz/programmes/funds/-rutherford-discovery/awardees/2010-awardees/-gardner/> > BIC. < <http://www.bic.canterbury.ac.nz/> > BioMath. < <http://www.math.canterbury.ac.nz/-bio/> >

Assistant Editor in Chief, RNA Biology. <

tinyurl.com/rnafamily > Software Editor, PLOS Computational Biology. < <http://www.ploscompbiol.org/static/edboard.action> >

“Paul P. Gardner” <paul.gardner@canterbury.ac.nz>

UCollegeDublin EvolutionaryBiology

Masters in Evolutionary Biology (University College Dublin, Ireland)

The MSc in Evolutionary Biology at UCD is tailored for science graduates wishing to advance their career in evolutionary biology, either by bridging the gap between undergraduate and doctoral level education, or providing the breadth and depth of knowledge to build up a career in science communication. The course is highly integrative, with topics on palaeobiology, phylogenetics, molecular genetics, cellular architecture, life-history, conservation genetics, evolutionary theory, popular science and a summer research project.

We are now inviting applications for the course starting in September 2013. Further information and application details can be found at <http://www.ucd.ie/graduatestudies/coursefinder/taughtprogrammes/msc-evolutionary-biology/> Enquires should be sent to evolution@ucd.ie

Course Coordinator: Dr Jon Yearsley School of Biology and Environmental Science University College Dublin, Belfield, Dublin 4 Ireland

jon.yearsley@ucd.ie

UExeter DiseaseTransmissionBumblebees

BBSRC SWDTP studentship: Pass the bug: Disease transmission networks in wild bumblebee populations Ref:

Bumblebees are key pollinators of crops and wild flowering plants, and many bumblebee species are in decline. Horizontally transmitted parasites pose a large risk to these pollinating insects, as many of these species have overlapping niches with ample opportunities for

pathogens to infect novel host species. At present we have a very poor understanding as to how diseases flow within and between bee species, and what impact they have on their hosts. In this project, you will use genomic tools to investigate transmission networks in natural populations of bumblebees, asking which ecological factors promote disease transmission. This project will run in parallel to a large BBSRC project studying the life histories of bumblebee communities at the colony level. Local populations will be comprehensively sampled, allowing you to study how pathogens are transmitted between colonies and species and how this may impact on population-wide fitness. By studying sequence evolution in rapidly evolving viral diseases, you will be able to apply powerful genomic modeling approaches developed for emerging diseases such as HIV to infer transmission pathways. These can be used to identify potential transmission hotspots, such as particular host species, food plants or landscape features. These field results can then be experimentally validated using lab or field experiments. The project will combine fieldwork, molecular and experimental infection assays and phylogenetic analysis. The work will heavily rely on molecular techniques, such as quantitative PCR and sequencing, for quantifying infections and for studying viral sequence evolution. Another important component will be bioinformatics and phylogenetic modeling. You will receive training in all of these methods from experts in the field. This PhD is part of the BBSRC South West Doctoral Training Partnership and will provide you with an extensive taught component on bioinformatics and modeling. Together with two rotation research projects in the first year, this will provide an excellent basis for this PhD project. This project also includes a non-academic work placement that will allow you to gain practical job experience. The project will be co-supervised by Dr. Lena Wilfert and Dr. Juliet Osborne, with field work being carried out in collaboration with Dr. Alison Haughton (Rothamsted Research) and Prof. Dave Goulson (University of Sussex). You will also be closely involved with the disease group at University of Exeter in Cornwall, including Prof. Mike Boots, Prof. Angus Buckling and Dr. Britt Koskella and there are opportunities for working with collaborators at ETH Zurich in Switzerland. Please contact Dr. Lena Wilfert (lena.wilfert@ex.ac.uk) for informal enquiries. The deadline for application is the 2nd of April 2013; please apply online via <http://www.exeter.ac.uk/studying/funding/award/?id=1177> This project has been shortlisted for funding by the BBSRC South West Doctoral Training Partnership (DTP), a collaboration between the Universities of Exeter, Bristol, Bath and Rothamsted Research institute. This project is one of a number that are in competition

for funding. Studentships will be awarded on the basis of merit. The four year programme is designed to provide training in cutting edge world-class bioscience and food security research, including a structured first year of tailored taught courses and the completion of two laboratory rotations before progression onto the three year PhD. In addition, following the postgraduate training policy of the Biotechnology and Biological Sciences Research Council (BBSRC), all students will complete a three month professional internship, providing an invaluable experience of work outside of academic research. For further details about the programme please see <http://www.bristol.ac.uk/swdtp/> Applicants for this studentship must have obtained, or be about to obtain, a First or Upper Second Class UK Honours degree, or the equivalent qualifications gained outside the UK, in an appropriate area of science or technology. The studentship will cover a stipend at the standard Research Council rate (£13,726 per annum for 2013-2014), research costs and tuition fees at the UK/EU rate for students who meet the residency requirements outlined by the BBSRC (see http://www.bbsrc.ac.uk/web/FILES/Guidelines/studentship_eligibility.pdf).

Dr. Lena Bayer-Wilfert Royal Society Research Fellow
Centre for Ecology & Conservation Biosciences, College
of Life & Environmental Sciences University of Exeter,
Cornwall Campus Tremough, Penryn, TR10 9EZ UK

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lena.wilfert@ex.ac.uk

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To read the entire message look it up at <http://life.biology.mcmaster.ca/~brian/evoldir.html>

UExeter EvolutionAgeing

PhD position: Mathematical modelling of human ageing and disease, University of Exeter

We are looking to recruit a highly motivated and dedicated student with a real interest in applying mathematics to fundamental problems in medicine. The successful applicant will have a unique and exciting opportunity participate in a lively research environment where mathematicians and medical scientists share a common research vision. The position is available from September 2013 and will employ mathematical models

to study age-related diseases in humans such as cancer and dementia.

The successful applicant will be working on the development and analysis of mathematical models in Dr Gudeljs lab at the University of Exeter, in close collaboration with colleagues at the Medical School, Professors Melzer and Mill and Dr Harries. We are looking for PhD students with a mathematical, computational or physics background and ideally be familiar with ordinary differential equations, their use in modelling, analysis (Dynamics Systems techniques) and simulations.

The application deadline is 8th April 2013 and more information about the project and how to apply can be found at:

<http://people.exeter.ac.uk/ig232/Home.html> “Gudelj, Ivana” <I.Gudelj@exeter.ac.uk>

UExeter EvolutionIntelligence

BBSRC SWDTP Studentship: Vocal mediation of cooperation, cognition and culture in wild jackdaws Ref: 1180

The evolution of intelligence remains one of the most important, yet poorly understood, issues in biology. Despite suggestions that sociality is a critical driver of cognitive evolution, we know little about the cognitive mechanisms underpinning key social behaviours such as negotiation, cooperation and cultural learning. Crucially, virtually nothing is known about how these mechanisms relate to reproductive fitness.

The aim of this project is to utilise cognitive experiments, acoustic analyses and stochastic mechanism-fitting models (a novel analytical tool for determining cognitive/learning mechanisms) to investigate the role of vocalisations in enabling flexible responses to dynamic social environments. Specifically, it will use a long-term study population of wild jackdaws, members of the large-brained corvid family that form life-long pair-bonds, to test vocal mediation of:

1. Negotiation within social relationships: the informational content of calls given during decision-making processes including coordination of pair movements, offspring provisioning and anti-predator responses.
2. Performance in cooperative problem-solving experiments: recognition of when cooperation and behavioural coordination are necessary to achieve rewards; use of calls to recruit suitable collaborators.

3. Cultural learning: exploring the importance of vocal signals in promoting skill acquisition during experimental social learning tasks.

Findings will be related to measures of pair-bond strength (e.g. vocal matching, affiliation) and seasonal reproductive success. This project will therefore represent the first attempt to determine how variation in socio-cognitive abilities impacts on individual fitness and will thus provide valuable insights into the selection pressures driving the evolution of intelligence.

Supervisors:

1) Dr Alex Thornton, Centre for Ecology and Conservation, University of Exeter, Cornwall Campus (www.wildcognitionresearch.com)

2) Dr Andy Radford, School of Biological Sciences, University of Bristol (<http://www.bio.bris.ac.uk/-research/behavior/Vocal.Communication/home.html>)

This project has been shortlisted for funding by the BBSRC South West Doctoral Training Partnership (DTP), a collaboration between the Universities of Exeter, Bristol, Bath and Rothamsted Research institute. The four year programme is designed to provide training in cutting edge world-class bioscience and food security research, including a structured first year of tailored taught courses and the completion of two laboratory rotations before progression onto the three year PhD. In addition, following the postgraduate training policy of the Biotechnology and Biological Sciences Research Council (BBSRC), all students will complete a three month professional internship, providing an invaluable experience of work outside of academic research. Taught components in terms 1 and 2 of the first year will be based at the University of Exeter's Streatham Campus in Exeter. For the remainder of the programme the successful applicant will primarily be based at the lively research environment of the Centre for Ecology and Conservation, at the University of Exeter's Cornwall Campus near Falmouth. For further details about the programme please see <http://www.bristol.ac.uk/swdtp/> Applicants for these studentships must have obtained, or be about to obtain, a First or Upper Second Class UK Honours degree, or the equivalent qualifications gained outside the UK, in an appropriate area of science or technology. This is a highly interdisciplinary project at the boundary of evolutionary biology and comparative cognition. The successful applicant will show a strong level of background knowledge in these areas and excellent analytical skills. Previous experience of behavioural field research would be advantageous.

The studentship will cover a stipend at the standard

Research Council rate (Â£13,726 per annum for 2013-2014), research costs and tuition fees at the UK/EU rate for students who meet the residency requirements outlined by the BBSRC (see http://www.bbsrc.ac.uk/-web/FILES/Guidelines/studentship_eligibility.pdf).

Please contact Dr Alex Thornton (alex.thornton@exeter.ac.uk) for informal enquires about the project. General enquiries can be made to cles-studentships@exeter.ac.uk.

Application procedures:

Please upload the following documents to the studentship application form - <http://www.exeter.ac.uk/-postgraduate/money/studentships/application/>

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UGlasgow QuantMethodsBiodiversity

Institute of Biodiversity, Animal Health & Comparative Medicine, University of Glasgow

<http://www.gla.ac.uk/researchinstitutes/bahcm/>
<http://www.gla.ac.uk/researchinstitutes/bahcm/-degrees/> MSc in Quantitative Methods in Biodiversity, Conservation & Epidemiology: Quantitative approaches in biodiversity measurement and informatics, ecology, epidemiology and conservation biology, covering such topics such as conservation genetics; public, veterinary and ecosystem health; wildlife disease ecology; emerging and zoonotic diseases; sampling and survey methods for freshwater, terrestrial and marine environments; invertebrate and vertebrate identification; the impact of environmental change at local and global scales; quantitative approaches for measuring biodiversity; phyloinformatics; molecular methods used in DNA barcoding; advanced statistics and mathematical modelling. The course is designed to integrate practical field and computer-based skills with molecular techniques and advanced analytical methods. Emphasis will be both on fundamental and applied research problems and 'hand-on' skill training. The programme consists of two terms of taught courses: the first term is comprised of a suite of modules designed to improve generic skills necessary for modern biological

research (scientific communication, introduction to R, experimental design & power analysis, advanced linear models) and a course in measuring biodiversity and abundance (which combines field sampling with quantitative analysis of biodiversity data); the second term starts with Programming in R and then students can choose from a wide range of options, all with an emphasis on quantitative approaches to measuring biodiversity, modelling ecological processes, applying advanced statistics, or investigating epidemiology. In addition, students have the option of choosing courses from another MSc programme offered by the Institute of Biodiversity, Animal Health & Comparative Medicine: “Animal Welfare Science, Ethics & Law”. The emphasis in the 2nd term is on flexibility; students can select their own portfolio of courses from the list below. The taught component is followed by an independent research project in the third term, geared towards applying the skills learned in the taught courses.

Quantitative Courses: Infectious disease ecology & the dynamics of emerging disease Single-species population models Multi-species models Introduction to Bayesian statistics Spatial and network processes in ecology & epidemiology Freshwater sampling techniques Invertebrate identification Vertebrate identification Phyloinformatics Molecular analyses for DNA barcoding and biodiversity measurement Conservation genetics & phylogenetics

Animal Welfare Courses: Animal welfare science Assessment of physiological state Biology of suffering Care of captive animals Enrichment of animals in captive environments Legislation related to animal welfare

Motivation: There is a growing interest in the inter-related fields of biodiversity, animal ecology, conservation biology, epidemiology, applied behaviour and animal welfare. Despite overlap between these subject areas, there is very little opportunity in current undergraduate programmes to acquire the range of sophisticated practical skills required in the modern practice of these disciplines. There are also few postgraduate opportunities to combine skills across these subject areas. At a fundamental level many of the core skills are shared between these areas and these MSc programmes are designed to exploit this by providing the opportunity for motivated students to gain the relevant skill sets over the course of a number of short courses, which will allow the student flexibility to design the most appropriate combination of skills and experiences relevant to their future career paths.

Uniqueness of the Programme: These MSc programmes are hosted by the Institute of Biodiversity, Animal

Health and Comparative Medicine (IBAHCM), which includes top quality researchers who focus on combining ecology and evolution with more applied problems in animal health and welfare. This direct linking of veterinarians and life sciences is rare but offers unique opportunities to provide training that spans both fundamental and applied research. These programmes encompass key skills in monitoring and assessing biodiversity critical for understanding the impacts of environmental change; quantitative analyses of ecological and epidemiological data critical for animal health and conservation; and ethics and legislative policy critical for promoting humane treatment of both captive and wild animals. The uniqueness of this programme is the opportunity to gain core skills and knowledge across a wide range of subjects, which will enhance future career opportunities,

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UGreifswald EvolBatDiseases

PhD Position - Bat-Virus Interactions

Application deadline: 15.03.2013

Within the framework of the German Research Foundation (DFG) Priority Program ‘SPP 1596 - Ecology and Species Barriers in Emerging Viral Diseases’, the Department of Applied Zoology and Conservation, Zoological Institute and Museum, University of Greifswald, Germany offers (beginning 1 May 2013)

1 PhD-Position on Bat-Virus Interactions (Reference number 13-Ma03)

The project will investigate the influence of the local diversity of host populations as determinants of reservoir-born virus dynamics in neotropical bats. The candidate will engage in fieldwork (about two months a year) with bats and in state of the art laboratory work on bat DNA (about 10 months a year).

Specific tasks - Catching and handling of bats during fieldwork - Sample collection (bat wing tissue, ectoparasites, faeces) - Laboratory work in a DNA lab (Genotyping, Sequencing, SNPs) - Data analyses and writing of scientific papers

Requirements - Diploma or Master in Biology (Zoology)
 - Strong background in evolutionary biology and/or molecular ecology - Expertise in field and population genetic techniques - Profound knowledge of statistics and data analyses/handling - Organizational skills and ability to work in a team - Profound knowledge of English (speaking and writing) basic knowledge in German and Spanish are of great advantage

The position is limited for three years. The reimbursement occurs to TVöD 13 (65 %). The University Greifswald is an equal opportunity employer. Applications from women are strongly encouraged. Preference will be given to disabled applicants with the same qualifications. For further information visit the university homepage or contact Professor Gerald Kerth (gerald.kerth@uni-greifswald.de).

Applicants should submit a letter explaining their interests in and particular skills for this position, a CV, a summary of their Diploma or Master Thesis and publication list (if available), preferentially in a single pdf-file, before March 15, 2013.

Professor Dr. Gerald Kerth

Angewandte Zoologie und Naturschutz Zoologisches Institut Johann Sebastian Bach-Str. 11/12 D - 17489 Greifswald

Tel.: +49 (0)3834 864100 Fax: +49 (0)3834 864252

gerald.kerth@uni-greifswald.de

Gerald Kerth <gerald.kerth@uni-greifswald.de>

responsible for the earliest stages of adaptive differentiation, specialization, and speciation. There are excellent opportunities to work with Icelandic collaborators at Holar University College and the University of Iceland as well as colleagues in Scotland at St. Andrews University and University of Glasgow. Projects will involve some combination of field work in Iceland and exposure to state-of-the-art molecular techniques including Next Generation Sequencing technologies. For more information see, <http://www.uoguelph.ca/ib/people/-faculty/ferguson.shtm> Students will receive a guaranteed minimum stipend for their program period with PhD Awards available to strong domestic candidates (see <http://www.uoguelph.ca/ib/>). Funding opportunities are available for international students.

Applicants should be highly motivated and have an excellent academic record. Interested students should send a statement of research interests and relevant experience, curriculum vitae with a list of publications (if any), unofficial grade transcripts and the names and e-mail addresses of at least two referees as a single PDF file to Dr. Moira Ferguson at mmfergus@uoguelph.ca. The positions are available May 1, 2013 and will remain open until suitable candidates are identified.

Dr. Moira M. Ferguson Professor & Chair Department of Integrative Biology University of Guelph Guelph, Ontario Canada N1G 2W1 Tel: (519) 824-4120 x53598, x52726 Fax: (519) 767-1656 Email: mmfergus@uoguelph.ca

mmfergus@uoguelph.ca

UGuelph EvolGenetFishes

Graduate Opportunities (MSc or PhD)

Evolutionary Genetics of Fishes – Department of Integrative Biology, University of Guelph, Guelph, Ontario, Canada**

Exciting opportunities are available for graduate students (MSc/PhD) interested in the processes underlying adaptive diversification in nature. We study the repeated evolution of ecologically-specialized morphs of Icelandic Arctic charr (*Salvelinus alpinus*) where the typical pattern of ecological and phenotypic divergence is a broad continuum of benthic and limnetic phenotypes. The gradient of extant ecological specialization in the wild makes this a powerful system for disentangling the ecological and genetic mechanisms that are

UHelsinki Evolutionary Biol

PhD position: Evolutionary Biology and Sequence Analysis

Institute of Biotechnology, University of Helsinki, Finland

We are looking for a student to work on methods development and/or evolutionary analysis of large sequence data sets. Possible study topics include:

- Evolutionary analysis of genome-scale sequence data - Methods development for / analysis of high-throughput metagenomic / transcriptome sequencing data - Methods development for multiple sequence alignment and evolutionary sequence analysis

The position is funded for four years.

The host group consists of biologists, bioinformaticians and computer scientists and has a strong history in methods development for sequence alignment and sequence analysis. The group has excellent local collaborations with evolutionary biologists and computer scientists and has access to raw data (from Illumina, SOLiD, Roche 454 and PacBio platforms) produced at the local core facility and to a computer cluster at the Finnish supercomputer centre.

We seek for a highly motivated candidate with a university degree in evolutionary biology, bioinformatics, computer science or a related field. We expect familiarity with Linux/Unix systems and (some) experience in computer programming; prior experience in evolutionary analysis and analysis of high-throughput sequencing data is an advantage. The candidate should be fluent in English, which is the working language at the host institute, and is expected to apply for a place and participate in one of the local graduate schools.

To apply, please send your application (including a cover letter, CV and two letters of recommendation) to ari.loytynoja@helsinki.fi (PDF format) before 31/03/2013. For an outline of the group's research see <http://www.biocenter.helsinki.fi/bi/loytynoja>. Representative publications: Löytynoja, Vilella and Goldman. (2012) Accurate extension of multiple sequence alignments using a phylogeny-aware graph algorithm. *Bioinformatics*, 28, 1684-1691. Löytynoja and Goldman. (2008) Phylogeny-aware gap placement prevents errors in sequence alignment and evolutionary analysis. *Science*, 320, 1632-1635.

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

ari.loytynoja@helsinki.fi

UHelsinki OrganEvolution

PhD position: University of Helsinki Institute of Biotechnology

Organ Evolution and development.

The Developmental Biology Program of the University of Helsinki is seeking to recruit a M.S. student to start a PhD and participate in investigations on the evolu-

tion of mammalian organ morphology. The successful applicant will have the opportunity to develop an independent project within the scope of the core research interests of the lab. The project involves using computational models of organ development that relate genetic variation with complex organ 3D multivariate morphological variation. The patterns of morphological evolution between and within mammalian species would be analyzed from these models to understand the roles of natural selection and development in explaining the direction of evolutionary change.

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

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

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

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

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

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

isalazar@mappi.helsinki.fi

UIceland PopulationGenomics

Ph.D. position in evolutionary biology - evolutionary genomics of a groundwater amphipod.

A three year PhD position is available at the Department of Life and Environmental Sciences at University of Iceland, Reykjavik, supervised by Snaebjörn Pálsson, Associate professor, in collaboration with Christophe J. Douady, Professor at Claude Bernard University in Lyon, France.

The project is on population and evolutionary genomics of *Crangonyx islandicus*, a recently discovered subterranean amphipod endemic to Iceland. High throughput sequencing methods will be applied. Firstly to evaluate the genetic patterns, partition and diversity with respect to habitats. Secondly to compare the transcriptome of *C. islandicus* with *Crangonyx pseudogracilis*, living in surface freshwater.

Recent work in Snaebjörn Pálsson's lab suggests that *C. islandicus* is composed of two or more cryptic species. Based on geographical patterns of genetic variation we showed that the species has diverged within Iceland for the last five million years, and has thus survived repeated glaciations of Ice age in groundwater. Analysis of the diversity points to refugias in fissures along the tectonic plate boundary in Iceland.

Applicants should have a masters degree, preferably with experience in bioinformatics, genomics and/or population genetics. Good computer skills are helpful. The position is financed by the Icelandic Research Council. The candidate will be selected based on his or her education, research interest, former work and two letters of recommendation.

The application, with recommendation letters, should be sent to Snaebjörn Pálsson (snaebj@hi.is), before April 15th 2013. Further information is provided by Snaebjörn, and can be obtained at <http://www.hi.is/~snaebj>. Snaebjörn Pálsson <snaebj@hi.is>

UKent EvolutionMitochondria

A PhD Fellowship in Evolutionary Cell Parasitology is

available at the School of Biosciences at the University of Kent (Canterbury/UK).

Project Description: Understanding the role and evolution of mitochondria in eukaryotic parasites

Mitochondria have multiple functions in eukaryotic cells. In canonical mitochondria, aerobic oxidative phosphorylation is a key process, since it provides ATP for the cell. Proteomic analyses of isolated mitochondria estimated that only 15% of the mitochondrial proteins are associated with energy metabolism (1). Other important processes within typical mitochondria include heme biosynthesis, \hat{I}^2 -oxidation of fatty acids, Fe/S cluster assembly, amino acid metabolism, mitochondrial genome maintenance and gene expression, protein folding and translocation, mitochondrial biogenesis (fusion and fission), and apoptosis. Microbial parasites have retained functionally distinct mitochondrion-related organelles (2), with overall functions that have been diversified from the canonical processes mentioned above. Moreover, there is still much to discover about mitochondrial processes as proteomic studies of different mitochondria showed that 20 – 40% of proteins are of unknown functions.

The aims of this project are to investigate the evolution, function and distribution of several distinct mitochondrial processes in microbial parasites and their role in the adaptation to parasitism. These aims will be addressed experimentally to reveal the purpose, evolutionary origins and trajectory as well as the function(s) of mitochondria and related organelles. Investigations of the mitochondria in parasites could lead to the identification of new drug targets for combating parasitic diseases as well as an understanding of how the mechanisms of parasitism evolve over time. The project will combine a variety of techniques including cell biology, biochemistry, proteomics, genetics and bioinformatics (for further reading see (3-7)).

The successful candidate will be part of the Tsaousis' lab (Molecular and Evolutionary Parasitology), a newly established laboratory at the University of Kent. In addition, the candidate will collaborate with Dr. Mark van der Giezen's lab at the University of Exeter and Prof. Joel Dacks' lab at the University of Alberta.

We are looking for a highly motivated student with great interest in evolutionary cell parasitology. Experience in microbiology, biochemistry and/or bioinformatics will be an asset. Informal enquiries can be addressed to Dr. Anastasios Tsaousis (tsaousis.anastasios@gmail.com).

Funding Notes: The studentship provides a stipend at current RCUK standard Home / EU rates of £13,590

per annum and covers Home / EU tuition fees. International applicants will have to meet the difference between Home /EU Fees and International Fees.

Applications can be made online (<http://www.kent.ac.uk/bio/study/postgraduate/applications.html>) where the project title should be entered as the proposed area of research and Dr Anastasios Tsaousis as supervisor. Please include a CV and a cover letter. Applications must be received by 30 April 2013.

Information about the School can be found at <http://www.kent.ac.uk/bio/> and information about Canterbury can be found at <http://www.canterbury.co.uk/>.

References: 1.Sickmann A, et al. (2003) The proteome of *Saccharomyces cerevisiae* mitochondria. *Proc Natl Acad Sci U S A* 100(23):13207-13212. 2.Hjort K, Goldberg AV, Tsaousis AD, Hirt RP, & Embley TM (2010) Diversity and reductive evolution of mitochondria among microbial eukaryotes. *Philos Trans R Soc Lond B Biol Sci* 365(1541):713-727. 3.Goldberg AV, et al. (2008) Localization and functionality of microsporidian iron-sulphur cluster assembly proteins. *Nature* 452(7187):624-628. 4.Long S, et al. (2011) Stage-specific requirement for Isa1 and Isa2 proteins in the mitochondrion of *Trypanosoma brucei* and heterologous rescue by human and *Blastocystis* orthologues. *Mol Microbiol* 81(6): 1403-1418. 5.Tsaousis AD, et al. (2011) A functional Tom70 in the human parasite *Blastocystis* sp.: implications for the evolution of the mitochondrial import apparatus. *Mol Biol Evol* 28(1):781-791. 6.Tsaousis AD, et al. (2008) A novel route for ATP acquisition by the remnant mitochondria of *Encephalitozoon cuniculi*. *Nature* 453(7194): 553-556. 7.Tsaousis AD, et al. (2012) Evolution of Fe/S cluster biogenesis in the anaerobic parasite *Blastocystis*. *Proc Natl Acad Sci U S A* 109(26): 10426-10431

Dr. Anastasios D. Tsaousis (PhD) Sina Adl's Laboratory Department of Soil Science College of Agriculture and Bioresources University of Saskatchewan 51 Campus Drive, Saskatoon, SK, S7N 5A8, Canada

From July 1st, 2013: Lecturer in Biosciences

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ULincoln EvoPhysiologyOfHearing March19

EXTENDED DEADLINE - MARCH 19, 2013

The physiology and evolution of an insect ear capable of detecting extreme ultrasounds

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

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

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

Applications will be by CV plus covering letter emailed to the primary supervisor for the relevant project by 5pm on 19 March 2013. Shortlisted applicants will be

invited to interview in the week commencing 25 March 2013. Applicants do not need to complete a University of Lincoln online application form unless invited to interview.

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

<http://bioacousticssensorybiology.weebly.com/-opportunities.html> Dr. Fernando Montealegre-Z., B-MSc, PhD Senior Lecturer in Zoology Biomechanics and Sensory Biology School of Life Sciences Riseholme Campus University of Lincoln Lincoln LN2 2LG, UK

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

ULouisianaMonroe SnailPopulations

I am looking to recruit one M.S. student for Summer/Fall 2013 examining the utility of inter-simple sequence repeats (ISSRs) as population markers in freshwater snails. The successful candidate will screen four to six populations of the pleurocerid *Elimia potosiensis* with multiple primers as part of a larger project examining the genetic and environmental factors affecting shell shape. Pending available funds, the student will compete for an \$8,000 annual teaching assistantship plus full tuition waiver for at least four semesters. Preferably the student would start in June 2013 ; funds are in place for summer employment.

Applicants must have demonstrable experience with standard DNA methods including extraction, PCR amplification, and agarose gel electrophoresis. At least one reference/recommendation must speak to the student's ability in the lab.

More information on my lab can be found at <http://www.ulm.edu/~minton>. Applicants must have a minimum 3.0 undergraduate GPA and 1000 M+V GRE score. Since assistantships are awarded on a competitive basis, the higher the GPA and GRE the better. Note that these values are higher than ULM's minimum graduate admissions standards.

Interested students can contact me directly at minton@ulm.edu and browse to our departmental website <http://www.ulm.edu/biology> . -

Dr. Russ Minton Associate Professor of Biology University of Louisiana at Monroe 700 University Avenue Monroe, LA 71209-0520 USA Phone: 318-342-1795 Fax: 318-342-3312 Email: minton@ulm.edu <http://sites.google.com/site/mintonr1>

Russell Minton <minton@ulm.edu>

UMuseumBergen InvertSystematics

A PhD fellowship in insect or mollusc systematics is available at the University Museum of Bergen. Description of the fellowship and how to apply on the web is found at: <http://www.jobbnorge.no/job.aspx?jobid=-92343> [from the announcement] At the Museum of Natural History, University Museum of Bergen, a 4-year temporary position as research fellow is open within the field of systematic zoology.

The position is associated with one of the research groups in systematics at the museum (<http://www.uib.no/rg/pse>, <http://www.uib.no/rg/biosyst>). The fellow will be working on the taxonomy and phylogeny of a selected group of insects or molluscs (snails). The applicant must contact potential advisors to make a research proposal that fits within existing research at the museum. The proposed research must include classical morphology based techniques in taxonomy and the application of molecular data and methods for species validation and phylogenetics.

Applicants must have a MSc degree or equivalent education in evolutionary biology with relevance to biosystematics. Thesis work must be completed and graded before the application deadline. Potential candidates for the position should have some experience with molecular methods in systematics or ecology, and be familiar with studies on animal morphology. Further evaluation criteria include the ability for independent work, study progression, grades on the MSc thesis and other relevant evolutionary biology subjects, and proven skills in scientific authorship.

The PhD fellow must take part in the University's approved PhD program leading to the degree within a time limit of 4 years (1 year work duty). Hence, applicants must meet the formal admission requirements for the PhD program. Application for admission to the PhD study, including progress plan for education and research will be made together with the project advisor. The PhD fellow will become a member of the Norwegian-Swedish research school in Biosystematics

(<http://www.forbio.uio.no>). Museum duties include 25 % of the total employment and will include curation of the scientific collections at the museum.

Starting salaries at salary level 50 (code 1017) on the government salary scale (corresponding to NOK 416.600 per year, following ordinary meriting regulations (wage levels 50-55).

Additional information on the position is obtainable from associate professor Bjarte Jordal (bjarte.jordal@um.uib.no), phone +47 55582233.

Bjarte Henry Jordal <Bjarte.Jordal@um.uib.no>

UNebraska Insect Adaptation

A Graduate Research Assistantship (GRA) is available at the Department of Entomology, University of Nebraska-Lincoln under the joint supervision of Nick Miller and Blair Siegfried. The GRA will join a project investigating the molecular mechanisms underlying the adaptation of western corn rootworm (*Diabrotica virgifera virgifera*) to transgenic Bt corn. The first cases of western corn rootworms with field-evolved resistance to Bt corn were reported in 2010. Since then, additional reports of resistance have occurred every year. This is a rare opportunity to study an emerging adaptation as it happens. We are seeking a PhD student with a strong interest in applying molecular and genomic tools to address questions regarding resistance evolution. Exceptional applicants interested in pursuing a Masters degree will also be considered.

To apply, or for further information, please contact Nick Miller (nick.miller@unl.edu) or Blair Siegfried (bsiegfried1@unl.edu).

nick.miller@unl.edu

UOldenburg EvolutionAnimalNavigation

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

Ph.D. position at the University of Oldenburg

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

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

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

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

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

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

date would be 1st April 2013.

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

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

UOslo Macroevolution

A 4-YEAR POSITION AS PhD FELLOW IN BIOLOGY (MACROEVOLUTION) is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, University of Oslo.

Project description

The successful candidate will work with a team of researchers at the CEES to understand how spreading grasslands drove the evolution of teeth morphology in ungulates by use of a combination of phylogenetic comparative and paleontological approaches. The project will use paleontological data from databases of ungulates and grasses, molecular phylogenies based on the literature or data from GenBank, and information on extant species. The successful candidate will receive training in modeling and statistical analysis of comparative and paleobiological data in a phylogenetic setting. There is opportunity to participate in the mathematical modeling and methods development of trait evolution, adaptation and coevolution. The candidate will work closely with several researchers at the CEES with complementary skills, including Barbara Fischer (mathematical modeling, coevolution), Thomas F. Hansen (phylogenetic comparative methods, statistical modeling), Lee Hsiang Liow (paleobiology), and Nils Chr. Stenseth (evolutionary modeling, coevolution).

Qualifications

We search for a candidate who has completed a MSc degree (or equivalent) of high quality in biology or paleobiology, and who has a strong interest in evolution. Candidates should have strong quantitative skills and interests. Training in mathematics or statistics is an advantage but not required. Prior experience or interest in macroevolution is an advantage, and the candidate may be required to do some programming. A good command of English is required. More information on this position and on how to apply is available here: <http://www.mn.uio.no/cees/english/about/-join-cees/vacancies/grassland-ungulate-evolution.html>

Salary

NOK 416 600 - 468 400 per year

If you have any questions regarding the application procedure or would like to know more about the project, please contact:

Nils C. Stenseth, n.c.stenseth@ibv.uio.no Thomas F. Hansen, t.f.hansen@ibv.uio.no Lee Hsiang Liow, l.h.liow@ibv.uio.no Barbara Fischer, barbara.fischer@ibv.uio.no

Application deadline: April 15, 2013 Latest starting date: October 1, 2013

barbara.fischer@bio.uio.no

UStAndrews NewCaledonianCrows

Tool use in new caledonian crows – University of St Andrews

SUMMARY

New Caledonian crows *Corvus moneduloides* are amongst the most proficient non-human tool users. In the wild, they use at least three distinct tool types to extract invertebrate prey from deadwood and vegetation, with some of their tools requiring complex manufacture, modification and/or deployment. Most research to date has focused on the species' cognitive abilities and on mapping natural variation in tool morphology, but the evolutionary, ecological and social contexts of these birds' unusual tool-use behaviour remain poorly understood.

Recent work by Dr Christian Rutz's group has opened up a range of exciting research avenues, some of which could be explored productively as part of this 4-year PhD project. There is considerable flexibility with regards to specific research objectives, but the successful candidate is likely to conduct both fieldwork and lab-based experiments, with excellent scope for collaboration with other group members (currently, 2 Postdocs and 3 PhD students).

This fully-funded PhD project offers excellent opportunities for a highly motivated and capable student: to join a dynamic and expanding research group; to conduct topical research on animal tool use and social learning in a high-profile study system; to participate in an established, well-funded and prolific research project; and to receive training in state-of-the-art ecological research techniques. The group is based in the School of Biology, University of St Andrews, UK – an

internationally recognised centre of excellence in the project's core research fields.

KEYWORDS: animal, behaviour, behavioural ecology, bird, cognition, culture, ecology, evolution, field biology, intelligence, ornithology, social learning, tool use.

DEADLINE: 30 April 2013 (later, if no appointment has been made)

START DATE: flexible

CONTACT (for informal enquiries): Dr Christian Rutz (cr68@st-andrews.ac.uk)

FURTHER APPLICATION DETAILS:
www.findaphd.com **RESTRICTIONS:** Home or EU students only

SELECTION CRITERIA

- excellent academic track record - demonstrable skill and enthusiasm for behavioural research and fieldwork - high degree of self-motivation and independence - ability and willingness to live and work overseas (for extended time periods and sometimes under challenging field conditions) - clean driving licence - prior research experience is an advantage, but not essential

REFERENCES

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- Rutz, C., Burns, Z.T., James, R., Ismar, S.M.H., Burt, J., Otis, B., Bowen, J. and J.J.H. St Clair (2012). Automated mapping of social networks in wild birds. *Current Biology* 22, R669–R671.
- Rutz, C. and J.J.H. St Clair (2012). The evolutionary origins and ecological context of tool use in New Caledonian crows. *Behav. Processes* 89, 153–165.

Christian Rutz <cr68@st-andrews.ac.uk>

UTasmania TasmanianDevils

PhD project opportunities on Tasmanian devils and their contagious cancer

School of Zoology, University of Tasmania

The project: Are Tasmanian devils adapting to changing selection pressures with severe mortality from facial tumour disease?

Tasmanian devils, the world's largest marsupial carnivore, are disappearing in the wild from a novel contagious cancer. Almost all animals contract the disease and die once they reach sexual maturity. Strong selection is expected on life history and behavioural traits that may increase lifetime reproductive output of individuals. We have demonstrated that devils show phenotypic plasticity in their life history in response to this strong selection, with increased food allowing faster growth rates and an increase in precocial breeding. This study will use genomic sequencing to construct pedigrees of devils at sites where we have studied populations from before disease arrival. We will investigate changes in selection on life history and behavioural traits and examine whether there are changes occurring at a genetic level. It will be cosupervised by Dr Chris Burridge.

What kind of person could do this project? This is a laboratory and computer-based genetics study with a strong bioinformatics/analytical component. There will be some opportunity to visit field sites and participate in trapping wild devils.

Project funding: This project has part-funding under of an ARC project "Can Tasmanian devils adapt and survive" by Menna Jones.

Scholarships: Domestic students (Australia and New Zealand) can apply for an Australian Postgraduate Award (APA) through the University of Tasmania worth \$24,653, with merit-based schemes available for top-ups.

International students: UTAS offers a number of schemes by which international students can obtain a scholarship; some offer assistance with tuition fees. Prospective candidates are also encouraged to seek scholarship schemes from their own country.

When to apply: Scholarship applications can be sub-

mitted any time of year. The outcome of applications is usually known within 6 weeks and commencement can start immediately following acceptance.

UTAS provides a free laptop to all PhD students and funding schemes for international conference attendance during the PhD.

More information: <http://www.utas.edu.au/-zoology/> Contact: Dr Menna Jones Email: Menna.Jones@utas.edu.au Phone: +61 407 815606

Dr Menna Jones | ARC Future Fellow School of Zoology University of Tasmania Private Bag 5, Hobart, Tasmania 7001, Australia

Email: Menna.Jones@utas.edu.au Ph: +61 407 815606 | Fax: +61 3 62262745 Web: <http://fcms.its.utas.edu.au/scieng/zoo/-pagedetails.asp?lpersonId=1321> Menna Jones <Menna.Jones@utas.edu.au>

UWyoming EvolutionaryEcology

We are recruiting two students (Ph.D. and M.S.) to pursue the Rangeland Ecology and Watershed Management degree at the University of Wyoming in the Department of Ecosystem Science and Management. Research will investigate the consequences of plant genotype-by-habitat interactions for the restoration of western shrublands in Wyoming and the Colorado Front Range. Students will explore population genetic and field studies of native plant communities.

Applications are encouraged from prospective candidates with a background and interest in restoration ecology, plant biology and population genetics. Evidence of excellent written and communication skills and enthusiasm for field and laboratory research are a plus. Applicants to the Ph.D. program at the University of Wyoming should have completed a Master's degree. In rare cases, we will accept a Ph.D. student without an M.S. Graduate support includes stipend, tuition and research funding for three years and there will be opportunities to apply for additional funding.

We are interested to fill these positions as soon as possible.

Please send inquiries and questions to Kristina Hufford at khufford@uwyo.edu to initiate an application for study. Applications will consist of a cover letter and copies of transcripts, GRE scores, resume and 3 letters

of reference. For more information about application to the UW graduate program, please visit:

<http://www.uwyo.edu/admissions/graduate/-index.html>

The University of Wyoming is located in Laramie, a city of 30,000 in the heart of the Rocky Mountain West. Located on a high plain between the Laramie and Snowy Range mountains, the city has excellent access to public lands that provide opportunities for skiing, hiking, camping, bicycling, fishing and climbing. Laramie is near many of Colorado's major cities and university communities (Fort Collins: 1 hour; Boulder:

1.5 hours; Denver: 2 hours).

Kristina Hufford, Ph.D. Ecosystem Science and Management University of Wyoming Dept. 3354 1000 E. University Avenue Laramie, WY 82071 USA (307) 766-5587

Kristina Hufford <khufford@uwyo.edu>

UZurich ConservationGenomics

PhD thesis in conservation genomics

One three-year Ph.D. studentship is available in the laboratories of Lukas Keller and Andreas Wagner at the University of Zurich to study conservation genomics of Alpine ibex.

Evolutionary adaptation is essential for endangered species to survive in the long term, yet the role of functionally important genetic variation in the small, isolated populations typical for endangered species is only poorly known. These two PhD theses will address this gap by studying the conservation genomics of the Alpine ibex (*Capra ibex*), a species that has experienced recent and severe bottlenecks. Using modern population genomics techniques in more than a dozen ibex populations, the successful candidates will study functionally relevant genetic variation and relate it to the dynamics of these populations.

The successful candidates are independent, creative, interactive and highly motivated researchers, with a strong background and interest in evolutionary biology. These projects require the students to immerse themselves into both conservation and genomics. Thus, a background in one, and a willingness to learn the other is essential. Experience with a major programming or scripting language is a bonus, because computational

data analysis that requires programming will be a major part of the research work.

These PhD projects are part of the University of Zurich's Research Priority Program 'Evolution in Action' and will be jointly supervised by Lukas Keller (conservation genetics) and Andreas Wagner (bioinformatics) of the Institute of Evolutionary Biology and Environmental Studies. The Wagner lab at the University of Zurich uses next-generation sequencing and functional genomics approaches, together with laboratory evolution experiments, to study the dynamics of genetic change in evolving populations. More generally, the lab has extensive experience with bioinformatics analyses of whole genome sequences ranging from plants to humans. The Keller lab studies evolutionary processes relevant for the long-term survival of endangered species, and has extensively worked on Alpine ibex. The working language in both laboratories is English.

Zurich consistently ranks amongst the world's cities with the highest quality of life. While it offers all the pleasures of living in a bigger city, thanks to its central location and excellent public transport system, it is extremely easy to get out of the city and head for the mountains.

Applicants should have an MSc (or equivalent) in a relevant field. To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@ieu.uzh.ch: 1) a statement of research interests not exceeding two pages, 2) a 1-page summary of your MSc work, 3) a detailed CV including publication list (if available), 4) a scanned academic transcript (list of grades in university courses), and 5) the contact details of three references. Please include the word "IBEX" in the subject line. Review of applications starts on March 25 2013, but candidates are considered until the position is filled. The ideal starting date is in the fall of 2013.

If you have any questions please contact Lukas Keller at lukas.keller@ieu.uzh.ch or Andreas Wagner at andreas.wagner@ieu.uzh.ch

Many thanks and best regards, Annette

annette.schmid@ieu.uzh.ch

UZurich FrogAdaptation

Open position for a PhD student University of Zurich,

Switzerland Working with Josh Van Buskirk

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

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

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

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

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

VirginiaTech SystematicsBioluminescence

Graduate positions in systematic entomology at Virginia Tech

Join Dr. Paul Marek's laboratory in the Department of Entomology at Virginia Tech studying bioluminescence, mimicry, and the discovery & description of planetary

biodiversity.

Background - In the Sierra Nevada Mountains of California, bioluminescent millipedes scatter upon the forest floor and on a moonless night 'resemble a starry sky'. The most remarkable feature of these millipedes is their ability to glow at a wavelength of 495 nm. This is only one of two known instances of bioluminescence in the entire millipede class Diplopoda. Bioluminescence in millipedes is restricted to only eight species of the genus *Motyxia*, which are endemic to a very small area in the Sierra Nevada Mountains, and *Paraspirobolus lucifugus* (a distantly related species in the order Spirobolida) from islands in the Pacific Ocean.

Our current research program aims to discover the evolutionary circumstances under which this unique adaptive innovation arose. The first part of the project consists of molecular phylogenetics as a foundation to address monophyly of the genus, and as a basis for new species descriptions. Did luminescence evolve multiple times, and under what circumstances? The second part of the project is a field test of luminescence and whether it functions as a nocturnal warning signal. Currently, we are using next generation transcriptome sequencing to understand the DNA-level differences between luminescent and closely related non-luminescent taxa.

[www.cell.com/current-biology/fulltext/S0960-9822\(11\)00887-6](http://www.cell.com/current-biology/fulltext/S0960-9822(11)00887-6)

blogs.discovermagazine.com/notrocketscience/2011/09/26/if-you-see-a-glowing-millipede-best-not-to-bite-it/

For the spring semester 2014, we seek graduate students (PhD and masters) to collaborate in National Science Foundation supported research investigating the evolution of bioluminescence in millipedes. Opportunities are also available in taxonomy/systematics of millipedes and insects including, but not limited to, local Appalachian species. International applicants are welcomed. Laboratory facilities are available for molecular systematics, spectral measurements of bioluminescence, and morphology-based taxonomy. A vast insect collection is also available.

Please send a curriculum vitae and letter of interest to Dr. Paul Marek, paulemarek@gmail.com, by May 7, 2013. Visit our website for more details, www.apheloria.org and www.ento.vt.edu. Guidelines for applying to Virginia Tech's Graduate School can be found at: graduateschool.vt.edu/admissions/applying/.

Blacksburg, VA was named by Outside magazine as one of the top 10 places to live in the country, and offers an abundance of outdoor activities including mountain biking, caving, rafting, and hiking - www.vt.edu/where_we_are/blacksburg . http://-apheloria.org/Paul_Marek/Students.html Paul Marek <paulemarek@gmail.com>

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CEA France Metagenomics

Biocomputational engineer position in metagenomics at the Laboratory of Bioinformatics Analyses in Genomics and Metabolism (LABGeM)

Background:

Genoscope (<http://www.genoscope.cns.fr> - Genomics Institute of the French Alternative Energies and Atomic Energy Commission (Commissariat à l'Énergie Atomique et aux Énergies Alternatives) is one of the top level platforms in the field of genomics.

Following the sequencing and primary analysis steps of raw DNA sequences, deep analysis of these biological big data requires intensive computing and bioinformatics methods still in evolution. As part of the Infrastructure France Genomics (Investments Avenir, <https://www.france-genomique.org/>), the aims of which is to integrate, at the national scale, the capabilities of genome analysis and bioinformatics processing of the generated data, a position of Engineer Bio-computer (CDD 18 months to 36 months), with a specialization in metagenomics, is opened in the LABGeM team (CEA / CNRS UMR8030 & IG).

Missions:

- Technological and implementation of programs dedicated to assembly of metagenomes and métatranscriptomes

- Development of workflows dedicated to qualitative and quantitative analysis of metagenomes

(gene prediction, metagenome comparisons, taxonomic assignations) under the MicroScope platform (<http://www.genoscope.cns.fr/agc/microscope>) and the CCRT (CEA computing center)

- Participation in the development of an extension of the MicroScope platform dedicated to the analysis of metagenomes / métatranscriptomes relying on internal expertises coming from the SynBioWatch project (<http://www.genoscope.cns.fr/synbiowatch/>).

Skills / knowledge:

- Languages: Java, R, PHP

- Knowledge of DBMS (MySQL, PostgreSQL) as well as SQL and NoSQL systems (MongoDB)

- Practical knowledge of Unix / Linux systems and scripting languages

- Knowledge of bioinformatics tools used for the analysis of metagenomic data

- Experience in the field of data analysis (metagenomics and metatranscriptomics).

- Knowledge of bioinformatics workflow managers (eg, Galaxy, JBPM / Drools)

Contract Period: 18 to 36 months

Application: To apply please send us a cover letter, a CV, and copies of your main scientific productions and three referees to Stéphane Cruveiller, scruveil_AT_genoscope.cns.fr, François Le Fevre, flefevre_AT_genoscope.cns.fr and Claudine Médigue, cmedigue_AT_genoscope.cns.fr.

Deadline for applications: 08/04/2013

flefevre@genoscope.cns.fr

DukeU LabManager EvolAnimalCommunication

Laboratory Manager position available *

in the Patek Laboratory at Duke University

The Patek Lab is conducting a search for a laboratory manager to assist in all aspects of laboratory experiments and day-to-day operations. Research in the Patek Lab probes the interface between physics and biology by studying the evolution of fast movements and animal communication. We examine systems such as jaw-jumping ants, sound-producing spiny lobsters and hammering mantis shrimp. We use techniques rang-

ing from bioacoustics and phylogenetics to high speed videography and materials testing. The Patek Lab will be joining the Biology Department at Duke University in the summer of 2013. For more information, visit: <http://bio.umass.edu/biology/pateklab/home>. Patek <patek@bio.umass.edu>

DukeU Teaching Evolution

Full-time teaching/prep positions in the Biology 202L "Genetics and Evolution" course, Duke University

Position description: Work full time (40 hours/week) as a teaching assistant and laboratory prep assistant in the introductory biology program for the 2013-2014 academic year. The position has two main components, teaching and behind-the-scenes laboratory preparation.

Teaching component: The primary teaching responsibility of the position is to lead laboratory sections of up to 16 students in the Biology Department's genetics and evolution Gateway course, Biology 202L. Each Biology 202L section meets weekly for 2.5 hours for a combined hands-on laboratory/problem-based learning session. Additional teaching responsibilities include (a) attending and taking notes at all course lectures including the weekly large discussion section, (b) grading weekly student written assignments, (c) helping with the preparation and grading of mid-semester hourly and final exams, and (d) assisting students during office hours and otherwise mentoring students as beginning biologists.

Teaching assistants should plan to be in Durham early the week of August 19, 2013, and are expected to participate in a teacher-training workshop before the fall semester begins. TAs also attend weekly prep sessions during the semester on Mondays.

Prep component: The second set of duties associated with the position is to assist in the preparatory work for the teaching labs in Biology 201L (Molecular Biology), 202L, and the laboratory diversity course, Biology 206L, as determined by the Lab Administrator. Responsibilities include setting up and putting away equipment and specimens for laboratory exercises, maintaining supplies in lab rooms between sections, cleaning glassware, assisting with field collection of live specimens, and helping to care for a diverse collection of invertebrate animals in salt-water aquaria. The lab prep workload is likely to require evening (until 10 PM)

and/or early morning (8 AM) work.

Salary: The projected salary for the position is \$17,500 or commensurate with experience. Employment begins on August 19, 2013 and ends May 9, 2014, with most of the winter and spring breaks off, with payment made in 9 equal amounts on the 25th of each month starting in September and ending in May. Full-time teaching/prep employees are eligible for health plans made available by the University.

Qualifications: Applicants should have a bachelor's degree with a strong, varied background in biology, especially genetics and evolution, with a superior science GPA. A very important attribute is a high level of energy and an enthusiasm for teaching genetics and evolution. Prior enrollment in advanced courses in genetics and evolution, and experience teaching are highly desirable; experience tending *Drosophila* is a plus. Teaching assistants in Biology 202L are expected to be actively engaged with their students in all aspects of the course and to serve as role models and mentors. Because they are a vital part of the introductory biology teaching team both in the classroom and behind the scenes, full-time assistants must be willing to commit themselves fully to the responsibilities of the position described above and as determined by the faculty members in charge of the Gateway course.

Interviews and Application Process: Formal interviews are planned to begin after April 10, 2013. Hiring decisions will be made on a rolling basis thereafter, continuing as necessary.

Interested applicants should provide (a) a cover letter, (b) a transcript, and (c) a resume with the names of two references (preferably at Duke for Duke students or alumni) to Julie Noor. These may be emailed to jkfnoor@duke.edu, delivered to Julie Noor's office (070 BioSci.) or to her mailbox in the Department of Biology, or mailed to her at the Department of Biology, Box 90338, Duke University, Durham, NC 27708-0338 USA. US citizens only. To be assured of consideration, applications should be submitted by April 10, 2013, although later applications will be considered if all positions haven't been filled.

For more information contact Julie Noor by phone at 919-613-8224 or e-mail at jkfnoor@duke.edu <<mailto:jkfnoor@duke.edu>> .

Mohamed A. F. Noor noor@duke.edu Earl D. McLean Professor Tel: 919-613-8156 & Associate Chair Biology Department Lab: 919-613-8193 Box 90338 FAX: 919-660-7293 Duke University Durham, NC 27708 USA <http://sites.google.com/site/noorlabduke/noor@duke.edu>

ENS Paris Evolutionary Genomics

Dear all,

A lecturer / “maître de conférences” position in evolutionary genetics/genomics is available at the Ecole Normale Supérieure in Paris, France.

The Lecturer will teach senior undergraduates and master students (L3, M1 and/or M2 years) at the Ecole Normale Supérieure. His/her contribution will mainly concern evolutionary genetics, in the wider framework of courses in genetics, genomics, statistics and data analysis, evolutionary biology and/or ecology. Teaching aims: Theoretical bases of formal genetics, including laboratory genetics and quantitative genetic analysis of natural variation. Integration of genomic data in genetic analysis. Applications to the integrative biology of evolutionary and ecological processes. The research project will address mechanisms of phenotypic evolution, combining genetic and genomic approaches. The Lecturer will conduct his/her research within a team of the Department of Biology of the Ecole Normale Supérieure (<http://www.ibens.ens.fr/teams>). Knowledge of French is not required.

Application <https://galaxie.enseignementsup-recherche.gouv.fr/antares/can/index.jsp> Position #4030. If you need help with the application, contact mc-genevol@biologie.ens.fr We have written instructions in English to help you apply.

The application deadline is 28th March 2013, 4 pm Paris time.

With best wishes, Marie-Anne Felix Professor, ENS

Marie-Anne Felix Institute of Biology of the Ecole Normale Supérieure (IBENS) 46 rue d’Ulm, 75230 Paris cedex 05, France 8th floor. Office: Room 801. Lab: Room 817. mail: felix@biologie.ens.fr Tel: +33-1-44-32-39-44 <http://www.ibens.ens.fr/-spip.php?article256&lang=en> STRAINS: <http://www.justbio.com/worms/index.php> Marie-Anne Felix <felix@biologie.ens.fr>

Eastern Washington U Biostatistics

Assistant Professor Biostatistics Department of Biology Eastern Washington University

The Department of Biology in the College of Science, Health & Engineering at Eastern Washington University invites applications for a full-time, tenure-track Assistant Professor in Biostatistics to begin mid-September 2013. The Department of Biology seeks a candidate who complements the strengths of our faculty in scholarship and teaching, and who reinforces our commitment to enhancing diversity.

Teaching duties include graduate classes and upper level undergraduate classes for Biology majors. Additional responsibilities include developing and sustaining a productive research program, supervising and mentoring of Master’s theses. Position is open until further notice; screening will begin after 4/5/2013. Applications must be submitted through our online faculty jobs portal: <https://jobs.hr.ewu.edu> Questions? Call Dr. Rebecca Brown, 509-359-6867. Eastern Washington University is an AA/EEO Employer.

Minimum Qualifications Ph.D. in biostatistics or closely related field; ABD candidates may be considered, but the doctorate must be completed before appointment Demonstrated expertise in linking theory with data Evidence of high quality teaching of quantitative subjects Evidence of doing collaborative biostatistics Demonstrated potential for scholarship based on previous publication record Experience and/or interest in promoting cultural diversity

Preferred Qualifications Demonstrated expertise which supplements that in the Department of Biology (e.g., bioinformatics or population genetics) Proficiency in R and/or SAS Expertise and interest in developing a graduate course in multivariate statistics

Lori Livingstone HR Associate for Academic Affairs Eastern Washington University 509-359-6931

“Livingstone, Lori” <llivingstone@ewu.edu>

Geelong Australia Viral Evolution

Viral Evolutionary Biologist

Location: Australian Animal Health Laboratory, Geelong, VIC Salary: \$89K to \$96K plus up to 15.4% Superannuation Tenure: Indefinite/Ongoing Reference: VIC13/00947

The Position: The role will be to contribute to the de-

velopment of a research capability in viral population genomics and evolutionary biology within the Virology Team at AAHL. This will involve the application of advanced bioinformatic and Bayesian-based phylodynamic and phylogeographic methods to investigate the structure and evolution of virus populations and how virus-host-vector interactions from molecule to landscape levels result in the emergence and spread of infectious disease. In the short-medium term, the research will focus primarily on arboviruses with subsequent application and dissemination of the methodologies to address other emerging viral diseases.

Specifically you will: Apply phylodynamic and phylogeographic methods to investigate the structure and evolutionary dynamics of virus populations and host-virus-vector interactions at the landscape level and during the course of infection in individual animals. Contribute to the integration of virus and host/vector genomic data and environmental variables to allow a systems-based analysis of the ecology of infection and interpret data of virus evolution with respect to future risks of disease emergence and spread. Prepare and present oral and written reports and publications, and research proposals for external funding. Provide leadership and direction to technical staff and undertake supervision and training of PhD students and post-doctoral fellows. Abide by and promote AAHL's microbiological security regulations and conduct work consistent with CSIRO's Equal Employment Opportunity and Health, Safety & Environment principles.

To be successful in this position you will need: A PhD or equivalent qualification in molecular virology, evolutionary biology or a relevant field. Experience in the use of advanced bioinformatics and phylogenetic methods to study evolutionary biology, with demonstrated high level of scientific knowledge and achievement. A good understanding of virology and the role of virus evolution in the processes of infection and immunity. Demonstrated ability to define, investigate and solve complex problems using diverse established and experimental procedures. Demonstrated ability to work cooperatively as a member of a project team and to network with scientific colleagues. Evidence of good communication skills and ability to achieve a high rate of publication of the results of scientific research in scientific journals.

Who we are: The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is one of the largest and most diverse scientific organisations in the world. By igniting the creative spirit of our people, we deliver great science and innovative solutions that benefit industry, society and the environment.

Applications close: 21st April 2013

Position Details VIC13/00947

For more details and the application procedure see: <http://csiro.nga.net.au/?jati=3Dcc96a72f-7791-8951-7204-7686fe0f8bad> PROFESSOR EDWARD C. HOLMES NHMRC Australia Fellow

THE UNIVERSITY OF SYDNEY Sydney Emerging Infections & Biosecurity Institute, School of Biological Sciences and Sydney Medical School, Macleay Building A12 | The University of Sydney | Sydney | NSW | 2006 | Australia T +61 2 9351 5591 F +61 2 9351 3890 E edward.holmes@sydney.edu.au

edward.holmes@sydney.edu.au

George Washington U Computational Biol

The George Washington University

Faculty Positions in Computational Biology and Bioinformatics

The newly established Computational Biology Institute at the George Washington University seeks founding faculty members to establish vibrant, interdisciplinary and externally funded research programs in bioinformatics and/or computational biology. We have five open faculty positions at all academic levels and seek applicants especially in the areas of biodiversity informatics, translational medicine, and systems biology developing methods to address 'big data' issues from a computational perspective. Candidates are expected to establish an extramurally funded and internationally recognized research program.

Basic Qualifications: Applicants must have an MD and/or PhD in Bioinformatics, Computational Biology, Computer Science, Mathematics, Genomics, or related discipline with postdoctoral research experience, granting experience, and a solid publication track record.

Successful candidates will enjoy joint appointments at the CBI and an academic department of their choosing (e.g., Biological Sciences, Computer Science, Mathematics, Biochemistry, Integrated Systems Biology, etc.) upon approval, and have opportunities to establish partnerships with regional research centers of excellence, including Children's National Medical Center, NIST, Janelia Farm, INOVA hospital system, Naval Research Laboratory, the Smithsonian, and the NIH

intramural research program. Rank and contractual status, will be based on experience.

Application Procedure: Applicants should submit an electronic application, and upload a cover letter emphasizing specific qualifications, a curriculum vitae, a description of research interests, and names and contact information of 3 references at: <http://www.gwu.jobs/postings/14121> Review of applications will begin on April 15, 2013 and will continue until positions are filled. Only complete applications will be considered.

For further information about the Computational Biology Institute at George Washington University, please see <http://cbi.gwu.edu>. For questions relating to this opportunity, please contact Keith Crandall, Director, Computational Biology Institute, The George Washington University, kcrandall@gwu.edu.

The George Washington University is an Equal Opportunity/Affirmative Action Employer and seeks to attract an active, culturally and academically diverse faculty of the highest caliber.

Keith A. Crandall, PhD Director, Computational Biology Institute Professor of Biology George Washington University Innovation Hall, Suite 202 45085 University Drive Ashburn, VA 20147 kcrandall@gwu.edu Office: (571) 553-0107 Cell: (202) 769-8411

kcrandall@email.gwu.edu

HowardU PlantEvol InvertEvolution

Dear List members,

We are searching for two new tenure-track faculty in the Department of Biology at Howard University. Although these advertisements are deliberately broad, we are very interested in applications from evolutionary biologists and ecologists, and expect the teaching responsibilities for the new positions to fall within this concentration in our department. More information on the Biology Department at Howard can be found at (biology.howard.edu), and I would encourage those interested in applying to contact faculty members and/or our chair, Dr. Franklin Ampy, with any specific questions. The official ad is given below. All the best,

-Nate Smith nathan.smith@howard.edu

TWO TENURE-TRACK BIOLOGY PROFESSOR POSITIONS HOWARD UNIVERSITY, WASHING-

TON, DISTRICT OF COLUMBIA

Howard University invites applications for two tenure track positions at the rank of ASSISTANT PROFESSOR starting in August 2013:

1. Invertebrate Biologist with some aspect of aquatic biology preferred
2. Plant Biologist with some aspect of global climate change preferred

Qualifications:

Candidates for these positions should have completed a Ph.D. in the relevant field and have an established record of research productivity. Teaching and post-doctoral experience are required. Successful candidates are expected to develop an externally funded research program, direct M.S. and Ph.D. students, and participate in teaching in the introductory general biology courses, as well as develop courses in their own specialty. Interested applicants should submit curriculum vitae along with a brief description of research interests, teaching experience and teaching philosophy, and arrange to have three letters of reference sent directly to:

Dr. Franklin Ampy, Chairman, Department of Biology
415 College Street NW, Room 126 Washington, D.C. 20059

Requested materials should be emailed to fampy@howard.edu by April 2, 2013. Candidates making the final list will be required to submit additional material. Screening of applications will be ongoing until the positions are filled. All qualified candidates are encouraged to apply.

Howard University does not discriminate on the basis of race, color, national and ethnic origin, sex, marital status, religion or disability.

Nathan D. Smith, Ph.D. Assistant Professor Department of Biology Howard University 415 College Street NW Washington, DC 20059 202-806-6941 nathan.smith@howard.edu Webpage: <http://dl.dropbox.com/u/86743464/web/smithnd/-Home.html> nathan.smith@howard.edu

HumboldtU EvolutionParasiteHost

The Faculty of Mathematics and Natural Sciences I,

Department of Biology of Humboldt-Universität zu Berlin (HU) and the Leibniz Institute for Zoo and Wildlife Research Berlin (IZW) invite applications for an Assistant Professorship in 'Ecology and evolution of molecular parasite-host interactions' (W1-S-Juniorprofessur)

starting October 1st 2013.

The successful candidate will be required to establish a research group that (1) applies molecular biological methods to parasitological questions and host-parasite interactions in the context of the ecology and evolution of free-ranging mammals, (2) teach in the field of the molecular ecology or evolution of parasites, (3) contribute to the development of coordinated activities in infection biology and medicine amongst the Berlin universities and research institutes and (4) strengthen the links between HU's Department of Biology and the IZW.

Applicants will have demonstrated excellence in molecular parasitology research. Preference will be given to candidates with some background in ecology or evolutionary biology that complements their strength in molecular parasitology but prior experience in working with wildlife parasites is not required. Excellence will be demonstrated by outstanding publications, acquisition of external funding and an international profile. Candidates should have a strong interest in interacting with the research networks present in Berlin.

Applicants have to fulfil the requirements for a call as a junior professor according to §102a of the Berliner Hochschulgesetz. HU seeks to increase the proportion of women in research and teaching, and specifically encourages qualified female researchers to apply. Preference will be given to disabled persons with equal qualifications. Applicants with migration background are highly welcome.

For inquiries regarding the position please contact the chairman of the committee, Prof Dr Heribert Hofer, Leibniz Institute for Zoo and Wildlife Research, Tel. +49 (0)30-5168101; E-Mail: director@izw-berlin.de. Please submit your application with CV, lists of publications and external funds, certificates, a statement on teaching experience and current and future research interests (no more than 3 pages), reprints of up to five recent publications and names and contact details of three referees, quoting Vacancy 03/2013 until April 12th, 2013 to Prof Dr Heribert Hofer, Leibniz Institute for Zoo and Wildlife Research, Alfred-Kowalke-Str. 17, D-10315 Berlin, Germany. To accelerate the process, applicants are asked to submit their applications also in electronic form (personal@izw-berlin.de). Since application materials will not be returned, we ask you to

send only copies of all documents.

The Leibniz Institute for Zoo & Wildlife Research Berlin is Germany's premier wildlife research institute, a member of the Leibniz Association of research institutes and jointly funded by the federal government and the state government of Berlin. The IZW focuses on the life histories and evolutionary adaptations of mammals and birds and their conservation in natural and anthropogenically influenced environments. The institute operates within the fields of wildlife health and diseases, reproductive biology and medicine, and evolutionary ecology and genetics.

Further details at www.hu-berlin.de; www.izw-berlin.de; www.leibniz-gemeinschaft.de. Dr. Miriam Brandt Scientific Coordinator Leibniz-Institut für Zoo- und Wildtierforschung (IZW) Alfred-Kowalke-Straße 17 10315 Berlin Germany Tel.: +49 30 5168-109 Fax: +49 30 5168-110 E-Mail: brandt@izw-berlin.de www.izw-berlin.de brandt@izw-berlin.de

JohnsHopkinsU Bioinformatics

Title: JohnsHopkinsU.Bioinformatics

I am seeking for a full time Research Data Analyst to assist in a pioneering research program in population genetics for The GenoGraphic Project in the department of Mental Health of Johns Hopkins, Bloomberg School of Public Health. The candidate will analyze genotype data of human populations, develop models in population genetics and investigate questions related to human evolution. The candidate will develop novel mathematical models and gene flow on the populations of interest. Current research focuses on understanding population structure, the distribution of rare variants in human populations, and developing methods to predict population associations for individuals.

Qualifications: Bachelor's degree in related discipline required. Three years related experience. Applicants must master C/C++ and Matlab and be experienced with Admixture/Structure analyses. Must be detail oriented, have effective organizational skills, and be able to prioritize workload appropriately. Must be able to perform multiple tasks efficiently and correctly, often operating more than one instrument at a time. Must be organized and able to appropriately prioritize responsibilities in a fast-paced environment. Additional education (Master's level) may substitute for required experience, to the extent permitted by the JHU equiv-

agency formula.

Compensation: \$40,128 - \$55,248 for 2 years.

Please see additional requirements and apply from here: https://hrnt.jhu.edu/jhujobs/-job_view.cfm?view_req_id=56280&view=sch

Principal Investigator: Eran Elhaik, <http://eelhaik.aravindachakravartilab.org/> Please email me for questions: eelhaik at gmail com

eran elhaik <eranelhaik@gmail.com>

Lyon France Paleogenomics

Dear all,

We are seeking to recrute a research engineer in Paleogenomics. The succesful candidate will integrate the /Paleogenomics and Molecular Evolution/ team at the ENS de Lyon (France). Initially a short-term contract is proposed (starting as early as March 2013 and until November 2013) noting that a permanent CNRS position will be opened and subject to a competitive recruitment process within the year. This permanent position will have an effective start the 1st of December 2013.

We are looking for a person with sound skills in Paleogenomics, excellent working knowledge of the concepts of molecular evolution and both methods and techniques of molecular biology which pertain to Paleogenomic approaches.

A job description is attached below. To apply, please send a detailed CV, letter of interest and references.

Contacts : Catherine Hänni : catherine.hanni@ens-lyon.fr, Morgane Ollivier : morgane.ollivier@ens-lyon.fr

Thank you for forwarding this advertisement within your networks and to potential candidates.

Best regards Catherine Hänni

*Position: Research engineer in Paleogenomics * Job description : Within the team "Paleogenomics and molecular evolution", the engineer drives and undertakes new methodologies and technologies of molecular biology as applied to paleogenomic analysis.

Essential skills : - have solid skills in paleogenomics and a perfect command of the concepts of molecular evolution -master the methods and techniques of molecular biology pertaining to paleogenomics

-having solid skills in NGS techniques, the establish-

ment of genomic libraries and PEC methodology would be desirable

-knowledge of bioinformatics and knowhow of relevant data analysis tools (statistics and modelisation)

Activities : - ensure the conception, development and execution of paleogenomics projects - develop and fine tune new methods and techniques applied to paleogenomics - ensure the development of sequencing projects within the team (loci capture, ancient genomes, metagenomics) - monitor scientific and technological advances within the field and integrate as appropriate the new technologies

- validate and interpret results from genomics projects, including the bioinformatics aspects - be actively involved in the training of interns and students within the team

Catherine Hänni (Group leader, CNRS) Morgane Ollivier (assistant professor, ENS de Lyon) Paleogenomics and Molecular Evolution Ecole Normale Supérieure de Lyon 46, allée d'Italie 69364 Lyon Cedex 07 France Tel: (33) (0)4 72 72 84 63/ 84 65

morgane.ollivier@ens-lyon.fr

MinnesotaIllinois 12mthInternship PlantEvolution

This is an ideal position for a graduate or soon-to-be-graduate interested in plant genetics or conservation ecology.

A 12-month paid internship starting in June 2013 is available for an individual with a bachelor's degree in biology, botany, entomology, or a related major and a commitment to conservation. If you have a background in biology and want to gain experience in botany, ecology, evolutionary biology, or conservation biology, we encourage you to apply.

As an intern, you will contribute to ongoing research on the conservation genetics, reproductive biology, and demography of the prairie plant *Echinacea angustifolia*. The intern has the opportunity to conduct an independent research project. Summer fieldwork occurs in western Minnesota with a team of students, teachers, and researchers. After the summer, you will relocate to the Chicago Botanic Garden to conduct research in the lab and greenhouse. You will also attend seminars and interact closely with conservation scientists, graduate

students, interns, researchers, and volunteers associated with the Department of Plant Conservation Science at the Chicago Botanic Garden and the graduate Program in Plant Biology and Conservation at Northwestern.

Desired skills and experience include: performing outdoor physical work in adverse conditions, collecting and managing datasets, completing tasks independently and on time, conducting experiments, using maps, communicating clearly in writing, paying attention to detail, conducting statistical analysis, and working effectively with diverse people, including scientists, volunteers, students, and interns.

Applications will be reviewed starting 20 March 2013. The salary starts at \$11/h. Housing in Minnesota during the summer is included.

For more information and to apply, visit <http://echinaceaproject.org/opportunities/research-interns-2013/> or contact Stuart Wagenius (echinaceaProject@gmail.com).

katherine.muller2010@gmail.com

Montpellier 5 Computational Biol

TITLE

Young investigator positions at the Institute for Computational Biology of Montpellier (France)

BODY

Young investigator positions at the Institute for Computational Biology of Montpellier (France)

The Institute for Computational Biology (IBC) will hire five young investigators for each of the five work-packages, typically with a PhD plus 3-year post-doc and solid experience in international research, a high level of publishing, strong communication abilities, and a taste for multidisciplinary research. Working full-time at IBC, these young researchers will play a key role in Institute life. They will actively participate in receiving foreign researchers and organizing seminars and events (schools, conferences...). They will help coordinate work within the work-packages and will be at the forefront of producing deliverables. In exchange, these young researchers will benefit from an exceptional environment thanks to the presence of numerous leading international researchers, not to mention significant autonomy for their work. These positions are open for up to 4 years, with a net monthly salary of 2,350

Euros/month, which is approximately 300 Euros more than a standard post-doc salary in France, and clearly enough to live in the Montpellier area.

For more information and to apply: <http://www.ibr-montpellier.fr/> Deadline: June 15, 2013

Details for each work-package:

WP1: HTS

This project aims first at conceiving and developing new algorithms for analyzing millions of sequences and involving complex techniques in text indexation, compression and algorithmics on classical or high performance computing architectures. These novel algorithms form the core of bioinformatics programs that will help investigating the transcriptome complexity. In the framework of a large cancer genomics project, we will exploit these programs to analyze over 100 tumoral genomes and transcriptomes as well as their normal counterparts. The candidate will participate in either of two aspects: (1) practical algorithms and indexing data structures for NGS processing; (2) bioanalysis of cancer genomes and transcriptomes.

WP2: Evolution

Our research involves evolutionary analyses of large-scale genomic data, at the interface between phylogeny and population genetics. The candidate will develop research on some of the following topics: inference of very large phylogenies, reconciliation of gene/species trees at a genomic scale, detection of selection, inference of population divergence, dating and migration studies, simulation-based inference. Application domains will be quite open, with emphasis on virus evolution and plant genomes. We are seeking a candidate with a strong background in mathematical and computational evolutionary biology, with interest in applications and software development.

WP3: Annotation

We are seeking for a high level computer scientist with strong experience in bioinformatics; knowledge in 3D protein structures and/or statistical learning is a plus. The candidate will contribute to the development and integration of bioinformatics tools for an interdisciplinary project dealing with structural and/or functional annotations of pathogen proteomes. The successful candidate will have good knowledge in one or several of the following topics: statistical learning, hidden Markov models, pattern matching, 3D and geometry algorithmics, protein domains, unstructured regions, tandem repeats, gene ontology

WP4: Imaging

Our research involves Integration of 4D imaging data

with functional genomics in plant and animal developmental biology. The candidate will contribute to the development of a software platform for image analysis. Two main directions are proposed: storage, annotation and handling of volumetric images obtained by confocal or light-sheet laser microscopy and development of a concept of 4D atlases, whereby cellular (e. g. geometry, mechanics) and molecular (e. g. gene expression) parameters can be projected onto “average” organ geometries. The final aim is to provide novel solutions to explore the genotype to phenotype relationships. Candidates will have a strong background in computer science and analysis of volumetric and segmented images.

WP5: Databases

We are seeking for a candidate with strong experience in distributed data management, in particular data integration, a good grasp on implementation aspects and interest for biology applications. The candidate will participate in the design and implementation of a data framework for plant genomics.

Olivier Gascuel <gascuel@lirmm.fr>

NorthCarolinaStateU BioinformaticsGenetics

Faculty Position in Genetics Department of Genetics
North Carolina State University

The Department of Genetics at North Carolina State University invites applications at the TEACHING ASSISTANT PROFESSOR level for a non-tenure-track faculty position in genetics. The successful candidate will be responsible for the development and teaching of a new undergraduate Bioinformatics course, GN 427: Introductory Bioinformatics. Responsibilities can include: teaching of two courses per semester; advising of undergraduate students; supervision and mentoring of teaching assistants, and/or other roles shaped by the strengths and interests of the individual.

Applicants should have a PhD in Biology, Genetics or Computer Science with genetics training, or related field, experience teaching university courses in bioinformatics or computation-related area. Experience with the development of new courses is desirable. A competitive salary will be provided.

The Department of Genetics (<http://www.cals.ncsu.edu/genetics/>) consists of a highly interactive group of scientists with focus in quantita-

tive, developmental and computational genetics. The department also administers outstanding undergraduate and graduate training programs in genetics, and many of the genetics faculty are affiliated with the Bioinformatics Research Center and the associated Bioinformatics graduate training program. NCSU has excellent facilities and programs for plant and animal research, genomics (<http://gsl.cals.ncsu.edu/>) and bioinformatics (<http://bioinformatics.ncsu.edu/>).

To apply go to <http://jobs.ncsu.edu>, search by position number 00103122 and provide a cover letter, curriculum vitae, statement of teaching philosophy, and arrange to have at least three letters of recommendation sent to Dr. David Threadgill, Department of Genetics, Box 7614, North Carolina State University, Raleigh, NC 27695-7614 (genetics@ncsu.edu). Review of applications will begin March 15, 2013 and continue until the position is filled.

NCSU is an AA/EO employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, age, veteran status or disability. In its commitment to diversity and equity, NC State University seeks applications from women, minorities, and persons with disabilities. NC State welcomes all persons without regard to sexual orientation. ADA Accommodations: please call 919-515-5727.

hes@ncsu.edu

NorthCarolinaStateU Ethnobotany

North Carolina State University, Teaching Assistant Professor, Ethnobotany

The Department of Plant Biology at North Carolina State University seeks candidates for a Teaching Assistant Professor position in Ethnobotany. This is a 9-month, non-tenure-track position with responsibilities for teaching on-campus and distance education courses. Position responsibilities include teaching two current on-campus undergraduate ethnobotany courses, developing distance education sections of these courses, and developing an additional two distance/on-campus courses including a course in economic botany. Opportunities exist for additional responsibilities and compensation for teaching during summer sessions. Opportunities exist to mentor undergraduate and non-thesis Masters students in independent research projects, to conduct research in collaboration with other faculty,

and to serve as a member of graduate advisory committees. Initial appointment is for one academic year, with reappointment for multi-year terms. Information on the Department of Plant Biology may be found at <http://www.cals.ncsu.edu/plantbiology/>. Teaching Assistant Professors are non-tenure track positions, which are eligible for promotion to Teaching Associate Professor and Teaching Professor ranks. Salary is competitive with tenure-track positions. Information on Teaching Faculty at NC State University may be found at <http://www.ncsu.edu/policies/employment/faculty/REG05.20.34.php>. Candidates must have a PhD degree in plant biology or other appropriate discipline with expertise and teaching experience in Ethnobotany. Candidates must have a proven record of teaching excellence at the college level, strong organizational and communication skills, and a commitment to undergraduate education.

To apply, please go to [*jobs.ncsu.edu*](http://jobs.ncsu.edu) and search for position number 00103240 or go directly to the posting at <http://jobs.ncsu.edu/postings/21201>. Applicants should *attach to the online application**: a CV and a statement of teaching philosophy and interests. In addition, applicants *should arrange for three letters of recommendation to be sent to: *Margaret E. Daub, Department of Plant Biology, North Carolina State University, Raleigh, NC, 27695-7612 (email: margaret.daub@ncsu.edu). Review of applications will begin April 15, 2013 and will continue until the position is filled.*

***North Carolina State University is an Equal Opportunity and Affirmative Action Employer. In addition, NC State welcomes applications from all persons without regard to sexual orientation or genetic information. Individuals with disabilities desiring accommodations in the application process should contact Carol Apperson, Department of Plant Biology, carol.apperson@ncsu.edu, (919) 513-3809.**

Qiuyun(Jenny) Xiang, Ph.D. Professor of Plant Biology North Carolina State University Gardner 4111 Raleigh, NC 27695-7612 Phone: 919-515-2728 <http://www4.ncsu.edu/~qyxiang> QiuyunJenny Xiang <qyxiang@ncsu.edu>

**North Carolina Museum Natural Science
Database GIS Manager**

North Carolina Museum of Natural Sciences: Database and GIS Manager

This position is primarily responsible for developing, modifying, and maintaining customized database applications in support of the individualized needs of the Research and Collections units and staff. This person must be fluent with the program Microsoft Access and the programming language Visual Basic, and with the mapping program ARCGIS. In addition, this employee will serve as the source person for the development, implementation, maintenance, and management of global positioning (GPS) and geographic information (GIS) systems technology within the Research and Collections Section of the Museum.

- (1) Must have training and experience using Global Positioning Systems (GPS) units and be comfortable training others in their use
- (2) Demonstrated ability to keep current on computer technology as it relates to natural science collections and/or curatorial needs
- (3) Working knowledge of the specific needs of natural science museums and/or collections
- (4) Proficiency with Microsoft Office Suite (with particular strength in Access)
- (5) Experience using Visual Basics for Application (VBA)
- (6) Proficiency with ARC GIS mapping program

Graduation from a four-year college or university with nine semester hours in programming and one year of experience in business application consulting or development. Experience in the field of work related to the position's role may be substituted on a year-for-year basis. Preferred: Experience with Microsoft SQL Server; PHP; ASP; Zend Framework; Drupal; Ruby; Python; and/or other similar languages or frameworks

For additional information, please see:

<http://tinyurl.com/baoyzu9> Or contact: Laura Oakley 919-707-9809 Laura.oakley@naturalsciences.org

Jason R. Cryan, Ph.D. Deputy Museum Director for Research & Collections North Carolina Museum of Natural Sciences 11 W. Jones Street Raleigh, NC 27601

Phone: (919) 707-9933 Fax: (919) 715-2614
email: jason.cryan@naturalsciences.org Museum Website: www.naturalsciences.org Research Website: www.planthopper.com "Cryan, Jason R" <Jason.Cryan@naturalsciences.org>

Okinawa 2 MarineEvolution

Evolutionary Biologists working on marine organisms/ecosystems are very much within the scope of the search advertised below.

Job: Assistant Professor of Marine Science Okinawa Institute of Science and Technology <https://groups.oist.jp/facultypositions/assistant-professor-marine-sciences> The Okinawa Institute of Science and Technology Graduate University (<http://www.oist.jp>) invites applications for a Tenure-track Assistant Professor position in the fields of Oceanography or Marine Biology.

This is an excellent opportunity for a junior scientist to establish an independent research group and play a central role building the marine science program at OIST. OIST emphasizes integrative research based on strong core research areas, and thus applicants with interdisciplinary interests are strongly encouraged to apply.

The university is located in Okinawa, a subtropical island famous for its distinctive culture and stunning marine environment. Nearby ecosystems offer excellent opportunities for marine research, including adjacent coral reefs, coastal and intertidal habitats, active hydrothermal vents in the Okinawa trough, and the deep-sea environment of the Ryukyus trench.

OIST has 46 faculty members and over 200 researchers, with opportunities for collaboration in a wide range of fields including life sciences, physical sciences and computational sciences. The campus has an extensive array of state-of-the-art instrumentation, which is managed so as to encourage easy access and collaborative research.

Applicants should have a PhD or equivalent degree, and have demonstrated excellence and imagination in research. Successful candidates will be expected to develop an internationally-recognized research program, to contribute to the teaching and supervision of graduate students, and to participate in the academic life and governance of OIST. Generous institutional support will be provided, including startup costs, researcher salaries, operating costs and space in striking new laboratory buildings.

OIST is an English-language graduate university, offering a world-class research environment in an area of distinctive culture, unique ecology, and outstanding

natural beauty. The research community is highly international, with faculty, staff and students drawn from over 30 different countries. Attractive housing, after-school programs, and child care in a specially designed Child Development Center, are all available on campus.

OIST Graduate University is an equal opportunity, affirmative action educator and employer and is committed to increasing the diversity of its faculty. We strongly encourage women and minority candidates to apply.

For more information about this position, please contact the search committee at marine-search@oist.jp. Applications will be reviewed starting April 15, 2013, with the position remaining open until filled.

—

Evan P. Economo Assistant Professor Biodiversity and Biocomplexity Unit Okinawa Institute of Science and Technology 1919-1 Tancha Onna-son, Kunigamigun Okinawa, Japan 904-0495

—

Evolutionary Biologists working on marine organisms/ecosystems are very much within the scope of the search advertised below.

Jobs: Professor of Marine Science Okinawa Institute of Science and Technology <https://groups.oist.jp/facultypositions/professor-marine-sciences> The Okinawa Institute of Science and Technology Graduate University (<http://www.oist.jp>) invites applications for a tenured Associate or Full Professor in the fields of Oceanography or Marine Biology.

We seek an exceptional scientist with an outstanding record of scholarly achievement to establish an internationally recognized research group, and to play a leadership role in developing Marine Science research programs at OIST. OIST emphasizes integrative research based on strong core research areas, and thus applicants with interdisciplinary interests are strongly encouraged to apply.

The university is located in Okinawa, a subtropical island famous for its distinctive culture and stunning marine environment. Nearby ecosystems offer excellent opportunities for marine research, including adjacent coral reefs, coastal and intertidal habitats, active hydrothermal vents in the Okinawa trough, and the deep-sea environment of the Ryukyus trench.

OIST has 46 faculty members and over 200 researchers, with opportunities for collaboration in a wide range of fields including life sciences, physical sciences and computational sciences. The campus has an extensive array of state-of-the-art instrumentation, which is managed so as to encourage easy access and collaborative

research.

Applicants should have a PhD or equivalent degree.
Successful

— / —

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>

Rennes France Biodiversity

University Rennes 1, Research Unit “Ecosystems, Biodiversity, Evolution” (<http://ecobio.univ-rennes1.fr/-news.php>), is recruiting an Assistant professor (Maître de conférences, permanent position) in « Community Ecology and Biotic Interactions ». A more detailed description is given here: https://www.galaxie.enseignementsup-recherche.gouv.fr/-ensup/ListesPostesPublies/ANTEE/2013_1/-0350936C/FOPC_0350936C_4154.pdf. Note that the research profile is very large, but specific teaching duties need to be ensured. You should informally contact one or several of the persons listed in this document.

More information on the procedure is given here https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand_postes.GALAXIE.htm, where you also have submit your application until March 28, 16.00, Paris time.

PLEASE note:

- To be eligible for this position you MUST already possess the formal “qualification” assigned by the French Ministry of Higher Education and Science (https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand_qualification.htm). If you do not have it already, it is too late now for this year’s recruitment campaign

- Teaching is exclusively in French and proficiency of French is required from the beginning

- Unfortunately travel expenses cannot be reimbursed

Bets regards

Andreas Prinzing

(for contacts, please refer to the people listed in the above pdf document)

Andreas Prinzing, Prof. Ecology of Diversification Research Unit “Ecobio” : Ecosystems - Biodiversity - Evolution Université Rennes 1 / Centre National de la Recherche Scientifique Campus de Beaulieu, Bâtiment 14 A 35042 Rennes, France

Tel : +33 2 23 23 67 12; fax: +33 2 23 23 50 26

andreas.prinzing@univ-rennes1.fr

http://ecobio.univ-rennes1.fr/Fiches_perso/-Fiche.asp?pseudo=APrinzing http://ecobio.univ-rennes1.fr/Fiches_perso/Banque/publi1_APrinzing.doc
Prinzing Andreas <andreas.prinzing@dbmail.com>

StockholmU PopulationGenetics

The new Department of Ecology, Environment and Plant Sciences at Stockholm university has opened two new tenure-track positions as associate senior lecturer (biträdande lektor) in the following areas:

*Associate Senior Lecturer in Biology with focus on Marine Macrophyte Ecosystems *

Description: The subject covers the biology of plants and animals in marine macrophyte ecosystems, including interactions with the environment, from an ecological, ecophysiological or population genetic perspective.

Additional information: <http://www.su.se/english/-about/vacancies/lecturers-researchers/associate-senior-lecturer-in-biology-with-focus-on-marine-macrophyte-ecosystems-1.129409> *Associate Senior Lecturer in Plant biology with focus on Species Interactions*

Description: The subject covers the biology of interactions between plants and other organisms, primarily in terrestrial systems, from an ecological, physiological or evolutionary perspective

Additional information: <http://www.su.se/english/-about/vacancies/lecturers-researchers/associate-senior-lecturer-in-plant-biology-with-focus-on-species-interactions-1.129410> *Information about the department* (home page: www.su.se/emb):

The department of ecology, environment and plant sciences originates from merging former botany and systems ecology departments. The department’s research activities involve terrestrial as well as marine environments, and are conducted primarily in biodiversity, ecology, ecotoxicology, evolution, plant physiology and

plant systematics. In these areas studies are performed on processes and patterns from molecular to ecosystem level, and interactions within and among species and with the environment and society. Several of our research areas are among those identified as strong within Stockholm University (climate, ocean, and environment) and the Faculty of Science (species interactions). Some of the research has direct environmental and societal relevance and the approach is often broad and interdisciplinary

Peter.Hamback@su.se

TrinityCollegeDublin Genetics

Post Title: Assistant Professor in Genetics

Post Status: 5-year contract

Department/Faculty: Genetics and Microbiology, Faculty of Engineering, Mathematics and Science

Location: Smurfit Institute of Genetics, Trinity College Dublin, Dublin 2 <http://www.tcd.ie/genetics> Closing Date: 12 Noon on Friday 12th April, 2013

Start Date: This post is tenable from 1st September, 2013 or as soon as possible thereafter

Post Summary The School of Genetics and Microbiology invites applications for an Assistant Professor in Genetics on a 5-year contract.

The ideal candidate will have a PhD and an accomplished track record of research in the field of Genetics. Applications are particularly welcome from scholars with research expertise in POPULATION GENOMICS and other fields in MOLECULAR EVOLUTION and COMPUTATIONAL GENETICS.

The post-holder will be expected to obtain competitive grant funding for research, and to contribute to undergraduate courses in science. S/he will contribute to postgraduate training in genetics through the supervision of research students.

Apply via: <http://jobs.tcd.ie> (search under "School of Genetics and Microbiology")

mclysaga@tcd.ie

TrinityCollege Dublin ChairEvolBiology

Chair in Zoology: ecological and evolutionary systems.

The School of Natural Sciences < <http://www.naturalscience.tcd.ie/> >, Trinity College Dublin, Ireland seeks to appoint an outstanding candidate to the prestigious Professor of Zoology (1871) in the area of Ecological and Evolutionary Systems. The successful applicant will commence in post in September 2013 or as soon as possible thereafter. Trinity College Dublin is recognised internationally as Ireland's premier university and is ranked in 67th position in the top 100 world universities by the QS World University Rankings 2012. For further details, please visit <http://www.tcd.ie/Zoology/chair.php> Dr Andrew Jackson Assistant Professor School of Natural Sciences Zoology Building, Trinity College Dublin, Dublin 2, Ireland Tel. + 353 1 896 2728, Fax. + 353 1 677 8094, Email. a.jackson@tcd.ie, Twitter: @andrewll-jackson < <https://twitter.com/AndrewLLJackson> > <http://www.tcd.ie/Zoology/research/research/-theoretical/AndrewJackson.php> Andrew Jackson <a.jackson@tcd.ie>

UConnecticut Bioinformatics

Job Posting Title: Bioinformatics Scientist (Academic Assistant II/III)

Job Summary: The University of Connecticut seeks a Bioinformatics Scientist primarily to serve the biological science community through consultation in a Bioinformatics Facility in the Biotechnology/Bioservices Center. The Facility consists of two small clusters, (1) a 15-node, 30 CPU, Apple Workgroup cluster that uses Sun Grid Engine for its distributed resource management and runs Bioteam's iNquiry as a web portal to over 170 applications, and (2) an 18-node, 144 CPU, Dell linux cluster running Rocks 6.1 (Centos 6.3) with Grid Engine for resource management. A Systems Manager maintains the cluster and applications. The successful candidate will provide consultation to faculty and graduate students on the use of specific computing

tools for solving a broad range of problems in biology, interface with biologists and computer scientists, keep facility FAQ web pages up-to-date, and have an excellent command of verbal and written communication skills (and use them effectively). Extensive experience is required in the application of software and databases used in computational biology, genomics, and in supporting desktop computing environments. Long range efforts will be to continue development and maintenance of an integrated bioinformatics network to serve a diverse research community.

Qualifications: Minimum Qualifications: M.S. or Ph.D. in bioinformatics or a related area; experience or the equivalent skills to handle problems in phylogenetics, genomics, gene and protein expression analysis; and database mining, molecular modeling, and structure-function analysis. Preferred Qualifications: Two or more years post M.S. work experience. Also desirable is an ability to consult with faculty and graduate students as well as possess excellent verbal and written communication skills.

Appointment Terms: The appointment will be as an Academic Assistant II or III and is a non-tenure track annual 11-month appointment. Individuals with a Master's degree and some experience will be appointed at the Academic II level. Individuals with a Master's degree and extensive experience or a Ph.D. will be appointed at the Academic Assistant III level. Salary will be commensurate with qualifications. After an initial year, candidates with a Ph.D. and a strong publication record may be considered for an Assistant Research Professor position in one of several academic departments. This would provide opportunities for research activities supported by external grant funding.

To Apply: Interested applicants must apply electronically using Husky Hire. Please submit a cover letter, curriculum vitae, and three letters from professional references. For questions regarding this position, prospective applicants should email david.whall@uconn.edu; University of Connecticut, Biotechnology/Bioservices, Unit 3149, 91 N. Eagleville Road, Storrs, CT 06269-3149. Screening of candidates will begin. The University of Connecticut encourages applications from under-represented groups, including minorities, women, and people with disabilities. The University of Connecticut is an EEO/AA employer.

J. Peter Gogarten Board of Trustees Distinguished Professor Department of Molecular and Cell Biology, and Co-Head of the Bioinformatics Facility at the University of Connecticut Bioservices Center University of Connecticut Unit 3125, BPB 404 91 North Eagleville Road Storrs CT 06269-3125 USA

Phone: 860 486 4061 (office) 860 486 1887 (lab) 860 465 6267 (cell) FAX: 860 486 4331 Email: gogarten@uconn.edu www: <http://gogarten.uconn.edu/jp-gogarten@gmail.com>

UFribourg Switzerland GroupLeader

Junior Group Leader in Ecology & Evolution, Switzerland

The Unit of Ecology & Evolution of the Department of Biology at Fribourg University, Switzerland, invites applications for a junior group leader position ("Maitre-assistant") in the field of Ecology & Evolution.

We are seeking a highly motivated scientist with post-doctoral experience, a strong publication record, and the will to develop an independent research group within the Unit. Applications are invited from researchers in any area of Ecology & Evolution. Applicants will be expected to develop an externally funded and internationally recognized research program that complements the existing research groups. A PhD studentship funded by the university is attached to the position. Teaching duties include participation in undergraduate courses, and an advanced Master-level course in the applicant's research area. Fribourg University is bilingual, and undergraduate teaching is either in German or French; Master-level teaching is in English.

The University of Fribourg provides excellent facilities and a stimulating intellectual and social environment. The Department of Biology comprises 24 research groups organized in four Units. The Unit of Ecology & Evolution consists of five groups studying plant population ecology, applied ecology, invasive plant species, community ecology, conservation biology and evolutionary genetics of populations.

Fribourg is a very pleasant and lively medium-sized town in the centre of Switzerland (less than one hour from Lausanne, Bern, and Neuchatel), located close to the Alps. The old town is charming and holds one of the finest remnants of medieval architecture in Europe. Students account for more than one fourth of the population.

The position is open starting 1st of September 2013, and is limited to five years. Annual salary starts at about CHF 90'000 (ca. EUR 70'000). Note that the position is 80% the first five months and 100% afterwards. To apply, please send a CV with a list of publications,

a one-page statement of general research interests and planned research, as well as the names and e-mail addresses of two referees in a single pdf-file to Catherine Cuennet: catherine.cuennet@unifr.ch. The deadline for application is 15 April 2013.

For further information contact Louis-Felix Bersier, Unit of Ecology and Evolution, Ch. du Musee 10, CH-1700 Fribourg, Switzerland tel +41 26 300 8869; fax +41 26 300 9698; louis-felix.bersier@unifr.ch; <http://www.unifr.ch/ecology/> christian.lexer@unifr.ch

UGroningen MarineEvolutionConservation

Please post – we are also interested in applicants with an evolutionary approach/interest.

Thanks,

Per

Tenure Track Assistant Professor Marine Ecological Genetics (1,0 fte) (213049)

Organisation

The University of Groningen offers excellent career prospects The Faculty of Mathematics and Natural Sciences is offering young, talented researchers positions which are at the level of Assistant Professor via the tenure-track system. Researchers are given the opportunity to develop their own line of research. The faculty's career policy is characterized by flexible personnel management with a focus on the individual. Academic achievements are seen as being central to the academic career, and ample opportunities for professional development and supplementary training and education are offered. Arrangements for training in the area of teaching will be made with all new employees. The policy is directed at increasing the number of women in academic staff positions. Career advancement policies for women will also be improved, and women will be actively encouraged to develop their careers. The appointment will be on a temporary basis for a maximum of 6 years. On completion of 5 years of employment there will be an assessment of performance based on established criteria including research and teaching qualifications. If the outcome of the assessment is positive, the assistant professor will be promoted to the rank of associate professor with tenure. At the end of a further 4 -7 year period there will be another assessment aimed at a promotion to full professor.

University of Groningen was founded in 1614 and ranks amongst the best universities in Europe and worldwide in a range of research disciplines. The University of Groningen is rooted in the North of The Netherlands and is internationally oriented with a socially active environment. Our researchers and lecturers are inspired academics and our students ambitious. We respect the differences in talent, ambitions and performance of the 25,000 students and members of staff.

The university provides a career advisory service for partners of new staff who move to Groningen.

Job description

The Centre for Ecological and Evolutionary Studies (CEES) at the University of Groningen has a vacancy for a tenure track assistant professor in Marine Ecological Genetics. CEES offers excellent opportunities and infrastructure for experimental research in the fields of ecology and evolution. Research programmes range from marine to terrestrial ecosystems and from polar to tropical regions. Research is pursued in collaboration with, among others, the Royal Netherlands Institute for Sea Research and European and non-European research institutions. CEES invites applications for a tenure track position at the Assistant Professor level in Marine Ecological Genetics as part of the research group Marine Evolution and Conservation (MarECon). We seek a new faculty member with a background in population genetics and genomics of pelagic marine animals. Specific (but not exclusive) focus-areas include palaeogenetics and adaptation to climate change. Experience in “next generation sequencing technologies” and bioinformatics is highly desirable. The applicant's research is expected to contribute to the existing programme and expertise, while simultaneously bringing something new and complementary.

Qualifications

Applicants must have a PhD degree and a strong record of research accomplishments appropriate to their career stage. The successful candidate will actively participate in the teaching and research programmes of the faculty and the Center for Ecological and Evolutionary Studies (CEES).

Candidates will need to have the following qualifications:

- a doctorate in the field of marine biology with special interest in population, evolutionary genetics/genomics, community genetics/genomics or related field

- two or more of years of experience outside The Netherlands in a post-doctoral capacity or experience at another educational institution

research, teaching and organizational experience appropriate to career stage

research accomplishments, as expressed in a list of publications appropriate to career stage

evidence of successful acquisition of external funding appropriate to career stage.

Junior post-doctoral researchers are especially encouraged to apply.

Conditions of employment

The University of Groningen offers a salary dependent on qualifications and work experience in accordance with the Dutch university system from EUR 3,227 (scale 11, CAO-NU) gross per month up to a maximum of EUR 5,020 (scale 12, CAO-NU) gross per month for a full-time position.

Application Interested candidates should submit a complete application composed of: (i) a letter of motivation, (ii) a complete curriculum vitae, (iii) a list of publications, (iv) a list of five self-selected "best papers",

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UHawaii Manoa PlantEvolution

Gerrit Parmile Wilder Endowed Chair in Botany

The Department of Botany at the University of Hawai'i at Manoa invites outstanding scientists with research interests in the biology and/or ecology of marine, aquatic or terrestrial plants to apply for a tenure-eligible position as the Gerrit Parmile Wilder Endowed Chair in Botany. The successful candidate will join a faculty with diverse research interests, including a strong focus on evolutionary biology, ecology, ethnobotany and conservation. Teaching responsibilities will include an upper level undergraduate course and a graduate course in the individual's specialty. As holder of the Chair, the incumbent would manage a substantial discretionary fund for research and training. Applicants must have a Ph.D. in botany / ecology / evolution or a related field, evidence of excellence in teaching, prior or current college or university appointment at the rank of associate professor or professor or equivalent, and a strong publication record. Desirable qualifications

include outstanding communication skills, extramural funding, international recognition, a track record of collaboration, and plans for a research program that takes advantage of Hawai'i's unique biota. Individuals interested in developing innovative initiatives within the Department of Botany and the College of Natural Sciences are especially encouraged to apply. Additional details can be found under position no. 84876 at: <http://workatuh.hawaii.edu>. To apply, please send a single PDF document to botany@hawaii.edu that includes: 1) a cover letter indicating your teaching and research interests and how you satisfy the minimum and desirable qualifications; 2) a detailed curriculum vitae; and, 3) names and contact information for three professional references. Review of applications will begin on August 15 2013 and continue until the position is filled. The University of Hawai'i is an Equal Opportunity/Affirmative Action Institution and encourages applications from women and minority candidates.

Anthony Amend Assistant Professor of Botany
www2.hawaii.edu/~amend

University of Hawaii Department of Botany, 101 St. John 3190 Maile Way Honolulu, HI 96822

amend@hawaii.edu

Anthony Amend <anthonyamend@gmail.com>

UHull EvolBiol

Job: Professor of Biological Sciences closing date 8 April 2013 <https://ig5.i-grasp.com/-fe/tpl.universityofhull01.asp?newms=3Djj&id=-3D79969&aid14169> Job Details As an established researcher with an international reputation in pure, applied and/or interdisciplinary research, you will play an integral role in the University's long term and ambitious plans for expansion. Supported by our significant recent investment in refurbished laboratories, new equipment and academic positions within School, you will also help to enhance our own international reputation in pure, applied or interdisciplinary research.

Working in state-of-the-art research facilities, this is your opportunity to continue your proven track record in obtaining external research funding and high impact publications, as you lead excellent research and teach biological science at basic and advanced levels.

Although no specific research theme is defined, we

particularly welcome applications from outstanding research professionals with strengths in areas of whole organism biology, environmental biology and/or environmental microbiology. Above all, we are looking for someone who will complement and strengthen our existing provision and whose research aligns with the overarching University strategic themes of Energy & Environment and Health.

Playing a leading role in enhancing our research profile, you will also provide broader academic leadership and contribute to the future development of the department.

For information about our Department of Biological Sciences, please visit www2.hull.ac.uk/science/biological_sciences_new.aspx

Interviews are anticipated to be held on Thursday 30 May 2013 and Friday 31 May 2013.

Requirements Applications for this post can be made by completing a short online personal details form, and uploading your CV, covering letter, publications and any other relevant information.

A.Gomez@hull.ac.uk

UKansas Bioinformatics

Bioinformatics Specialist in Genome Analysis

The K-INBRE Bioinformatics Core at the University of Kansas is now hiring a Bioinformatics Specialist to support genome biology research on campus. We are seeking applications from dynamic, motivated individuals interested in helping KU researchers develop and analyze genomics projects, providing computational biology and statistical expertise. The Bioinformatics Specialist would also be free to develop their own research program, mentored by, and collaborating with KU research faculty. The University has an Illumina HiSEQ2500 sequencer, so individuals with expertise in the analysis of next-generation sequencing data are particularly encouraged to apply.

Required qualifications: Masters in biology or computer science; Solid understanding of Linux or Unix, and demonstrated programming experience; A record of published, peer-reviewed research. Preferred qualifications include a PhD in biology or computer science, and experience with the analysis of next-generation sequencing data.

Queries about the position can be directed to the Director of the facility, Dr. Stuart Macdonald (sjmac@ku.edu). Further details, and instructions on how to apply for the position can be found at <http://employment.ku.edu/jobs/2323>. The position is open and review of applications will begin on April 15 and continue until the position is filled.

Dr. Stuart J. Macdonald Director, K-INBRE Bioinformatics Core Facility Department of Molecular Biosciences 4043 Haworth Hall 1200 Sunnyside Avenue University of Kansas Lawrence KS 66045

office: 785-864-5362 lab: 785-864-5777 fax: 785-864-5321 email: sjmac@ku.edu

sjmac@ku.edu

UMelbourne EvolGenetics

1. LECTURER Department of Genetics Faculty of Science

Salary: \$85,203 - \$101,175 p.a. plus 17% superannuation

The Department of Genetics is seeking to appoint a Lecturer in the area of Genomics. You will be expected to undertake high-level experimental research and will also have a commitment to teaching within the Department's undergraduate and MSc programs. This position is also required to supervise research students at undergraduate, MSc and MPhil/PhD levels.

The University of Melbourne provides a wide range of opportunities for exciting research collaborations, and you will be encouraged to develop collaborative links within the Department as well as externally, in line with the strategic direction of the Department of Genetics. The role also requires you to undertake administrative tasks for the Department.

Employment type: Full-time Continuing Campus: Parkville

Close date: 5 May 2013

For position information and to apply online go to www.hr.unimelb.edu.au/careers, click on 'Search for Jobs' and search under the job title or Position no.: 0031074.

2. SENIOR LECTURER / ASSOCIATE PROFESSOR - MAMMALIAN GENETICS

Department of Genetics Faculty of Science

Salary: \$104,370 - \$120,344 per annum (Level C) or \$125,670 - \$138,449 per annum (Level D), plus 17% superannuation. Level of appointment is subject to qualifications and experience.

The Department of Genetics is seeking to expand its research and teaching in the area of mammalian genetics. The Department currently offers a comprehensive program of undergraduate genetics education and postgraduate research opportunities. This position will enhance the research and teaching profile of the Department through the establishment of an active research program addressing biological questions relevant to the understanding of human health and disease.

This position will be located in the Genetics Department at the University of Melbourne within the Parkville Precinct, one of the premier sites for biomedical research. The development of research collaborations within the Department and externally will be encouraged. This position will require a strong commitment to the Department's undergraduate and MSc teaching programs and will be expected to undertake appropriate administrative roles.

Close date: 7 April 2013

Employment type: Full-time Continuing Campus: Parkville

For position information and to apply online go to www.hr.unimelb.edu.au/careers, click on 'Search for Jobs' and search under the job title or Position no.:0030996.

crobin@unimelb.edu.au

UMelbourne Evolutionary Biol

SENIOR LECTURER / ASSOCIATE PROFESSOR
IN ECOLOGY Department of Zoology Faculty of Science
The University of Melbourne, Australia

Salary: AUD\$104,370 - AUD\$120,344 p.a. (Level C)
OR AUD\$125,670 - AUD\$138,449 p.a. (Level D) plus
17% superannuation.

The Lecturer in Ecology will be expected to lead a vigorous research program that attracts postgraduate students, engages international collaborators and secures external research funding from national and competitive research schemes, as well as potential industry partners.

You will have a PhD or equivalent qualifications and ex-

perience, a strong track-record of funding success and a reputation for outstanding research in a branch of terrestrial ecology. Ideally, the research interests of the appointee will include questions of applied importance and will both complement and extend those of one or more of the Department's existing research groups (Conservation and Climate Change, Animal Behaviour and Evolution, Marine Biology, Reproduction and Regeneration). You will have excellent teaching skills, and a commitment to undergraduate and postgraduate teaching, course development and student supervision.

Employment Type: Full-Time (continuing) position

Enquiries only to: Professor David Gardner, Tel +61 3 8344 6259, Email david.gardner@unimelb.edu.au

Close date: 24 March 2013

For position information and to apply online go to www.hr.unimelb.edu.au/careers, click on 'Search for Jobs' and search under the job title or job number 0030862.

advertising-hr <advertising-hr@unimelb.edu.au>

UNebraska Lincoln Quantitative Evolution

Quantitative Ecologist - Assistant Professor University of Nebraska-Lincoln

Seeking applicants for a tenure-leading Quantitative Ecologist or Evolutionary Biologist at the rank of Assistant Professor with a focus on pesticide and other environmental stress resistance evolution and in teaching. The tenure-home for this position will be determined based on the expertise of the successful candidate, but may include the School of Natural Resources < <http://snr.unl.edu/> >, Department of Entomology < <http://entomology.unl.edu/> >, Department of Plant Pathology < <http://plantpathology.unl.edu/> >, or the Department of Agronomy and Horticulture < <http://agronomy.unl.edu/> >. A joint appointment is also a possibility.

A Ph.D. in a biological discipline, earned by date of appointment, with experience in mathematical, statistical, numerical modeling or theoretical approaches to ecology and/or evolutionary biology relevant to stress resistance is required. Preferred qualifications include demonstrated strong oral and written communication skills and success in securing extramural fund-

ing, evidence of working in a team environment to strengthen collaborative links, and experience in successfully teaching and mentoring students at the graduate and undergraduate level.

To view the complete position details and apply for this position, go to the UNL Employment website: <http://employment.unl.edu>. Search for position number F_130076. Click on "Apply to this job." Complete application. Attach a letter of interest, curriculum vitae, and a personal statement describing your research and teaching interests and experience (Other document). Applicants must arrange for three letters of reference to be submitted by email to kjensen4@unl.edu.

Review of applications will begin on April 8, 2013, and continue until the position is filled or the search is closed.

The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through Affirmative Action, Equal Opportunity, work-life balance, and dual careers.

Karen E. Jensen, Office Associate - Lead School of Natural Resources University of Nebraska-Lincoln 913 Hardin Hall 3310 Holdrege Street Lincoln, NE 68583-0989

Phone: 402-472-7569 Fax: 402-472-2946 E-mail: kjensen4@unl.edu SNR Website: <http://snr.unl.edu>
Karen Jensen <kjensen4@unl.edu>

USaoPaulo EvolutionaryBiology

University of Sao Paulo - Brazil: Faculty Position - Zoology The Department of Zoology of the Institute of Biosciences of the University of Sao Paulo (Brazil) is seeking applications for one tenure-track Assistant Professor faculty position in Zoology (including systematics, phylogeny, morphology, embryology, natural history, behavior, evolution, and related areas) of the following animal groups: poriferans, non-parasitic platyhelminths, lophophorates, molluscs, nematodes, echinoderms or non-craniate chordates. Applicants must hold a Ph.D. degree in a field related to the position and a demonstrated record of research productivity. The successful candidate will be expected to maintain a rigorous research program and contribute to undergraduate and graduate teaching. Applications must be submitted by May 3, 2013. Further information (includ-

ing information for foreign applicants and/or holders of a foreign Ph.D.) can be obtained from: Dr. Pedro Gnaspini, Chair of the Department of Zoology, zoochefe@ib.usp.br.

Prof. Pedro Gnaspini Chair of Department of Zoology - Instituto de Biociências USP Rua do Matão, trav 14, 321. 05508-090 São Paulo - SP - Brazil Phone (+55 11) 3091-7513 or 3091-7802 (Secretary) email zoochefe@ib.usp.br

Pedro Gnaspini <zoochefe@ib.usp.br>

USouth Tennessee 1yr EvolutionaryBiol

The Biology Department at the University of the South seeks a Visiting Assistant Professor of Biology for a one year appointment in the areas of ecology, evolution or biodiversity. Teaching responsibilities (9 classroom hours/week) will include one or more upper division classes in the candidate's area of expertise and participation in Field Investigations, a class that emphasizes active learning in introductory ecology/evolution. Candidates should be enthusiastic about teaching in the context of the liberal arts tradition in education. The University of the South comprises a highly regarded College of Liberal Arts and Sciences and a distinguished School of Theology. It is an institution of the Episcopal Church that welcomes individuals of all backgrounds. It is located on a striking, 13,000 acre campus on Tennessee's Cumberland Plateau. Eligibility for employment is contingent upon successful completion of a background screening. Review of applications will begin immediately and continue until the position is filled. Send a letter of application, curriculum vitae, statements of teaching and research interests, transcripts, and three letters of reference to: http://www2.sewanee.edu/printservices/-faculty_hiring Other correspondence may be directed to fachire@sewanee.edu. The University of the South is an Equal-Opportunity Employer. Women and minorities are encouraged to apply.

Dr. Kirk Zigler Associate Professor Department of Biology Sewanee: The University of the South
kzigler@sewanee.edu

UTasmania MathPhylogenetics

Applications are invited for a lecturing position within the School of Maths & Physics, University of Tasmania, Hobart. This position will be offered on a full-time fixed-term basis for a period of 18 months.

The School seeks a highly motivated researcher, to work with the theoretical phylogenetics team. The successful applicant will be expected to have an independent research programme and an excellent publication record in the area of mathematical evolution. It is expected that the applicant will have excellent written and verbal communication skills, and he/she will be expected to assist with the supervision of honours and postgraduate students.

The successful applicant will undertake teaching within an academic staff team in the School of Mathematics and Physics. The applicant is expected to teach in and coordinate units in mathematics and statistics. Additionally the appointee will participate in School leadership and administration by contributing to committees and by providing student and staff support. The appointee will demonstrate effective interpersonal skills and ability to work cooperatively in a team environment.

The appointment will be at Academic Level A or B depending on individual skills and experience. An appointment at level A will have a total remuneration package of up to \$83,879 per annum, (comprising salary within the range \$57,601 - \$76,953 plus 9 percent superannuation. An appointment at level B will have a total remuneration package of up to \$103,875 per annum, (comprising salary within the range \$80,824 - \$95,298 plus 9 percent superannuation.

For further information about the position please contact Dr Barbara Holland, on telephone (03) 6226 1990, fax (03) 6226 2410 or email Barbara.Holland@utas.edu.au.

The closing date for us to receive your application is 25th March 2013.

Barbara.Holland@utas.edu.au

UWyoming EducationOutreachCoordinator 2

Apologies for my first attempt to send this.

POSITION ANNOUNCEMENT: EDUCATION/OUTREACH COORDINATOR The Education/Outreach Coordinator is an academic staff position of the University of Wyoming's Biodiversity Institute (BI). The position will work with other BI staff in pursuit to its mission. The Education/Outreach Coordinator will coordinate the Institute's education resources, manage the education components of the BI's website and provide education outreach to Wyoming's teachers and schools.

Institute/University Description: In 2012, the University of Wyoming created the BI to encourage wise and informed decisions concerning the conservation of biological diversity. To meet this challenge a central component of the BI's mission is to promote, develop and evaluate biodiversity education in the K-12 schools of Wyoming. More information is available at: www.uwyo.edu/biodiversity The University of Wyoming provides high quality undergraduate and graduate programs to 13,000 students from all 50 states and more than 90 countries. Established in 1886, UW is a nationally recognized research institution with accomplished faculty and world-class facilities. The University of Wyoming is nestled between two mountain ranges in southeastern Wyoming. It offers varied academic and lifestyle opportunities including outstanding outdoor recreation and year-round cultural activities. The University of Wyoming is located in Laramie, a town of about 30,000 with a unique blend of sophistication and western hospitality.

QUALIFICATIONS REQUIRED - Master's degree in one of the following: Biological Sciences, Environmental Education, Science Education, Education, Curriculum & Instruction or a closely related field. - Experience in at least one of the following: development and manipulation of curriculum resources (including digital resources and field and laboratory experiences), development and administration of education websites, and development of print education materials. - Excellent oral, written and interpersonal communication skills. - Experience working in an education setting - schools, information education, etc. - Experience working both in front of or with people and behind a computer. -

Ability to work alone and as part of a team

HIGHLY DESIRED - Background/experience in communication, biodiversity, sustainability or science education, and technology integration. - Willingness to learn additional computer programs and skills as needed. - Leadership ability and experience - leading project teams, creating programs, committee leadership. - Experience providing support to classroom teachers. - Creative and resourceful. - Passion for and dedication to biodiversity education.

Terms of Employment: Full-time, academic professional, year-round (12 month) with reappointment based on satisfactory evaluation. Salary is commensurate with experience but starts at \$50,000. Benefits include University of Wyoming insurance, retirement, vacation, holidays and sick leave. Appointment date: 1 May 2013 (or as soon as possible thereafter).

Application Procedure: Send pdfs of letter of interest, resume or curriculum vitae, as at least three letters of reference to Brenna Marsicek, Biodiversity Institute, brenna.marsicek@uwoyo.edu by 11:59pm MST on 22 March 2013.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com 307.766.6169

mcarling@uwoyo.edu

UppsalaU Bioinformatician

Bioinformatician

Permanent position at the Evolutionary Biology Centre in Uppsala, Sweden

The Department of Ecology and Genetics of Uppsala University (<http://www.ebc.uu.se/Research/-IEG/?languageId=3D1>) seeks a bioinformatician to take part in and support evolutionary oriented research using next-generation sequencing data.

The Evolutionary Biology Centre is an internationally leading arena for research in evolutionary biology. Genomics is used as an integral part of many research projects at the centre, in applications such as genome sequencing, genome-wide association studies (GWAS), population genomics, RNA-seq and others. We are therefore now expanding our staff of bioinformaticians

to participate in and support this research.

Nature of duties: To act as bioinformatic application specialist and to provide support in the use of high-performance computer resources at the Uppsala Multidisciplinary Center for Advanced Computational Science (UPPMAX; <http://www.uppmax.uu.se>) for analyses of DNA and RNA data based on next-generation sequencing technology. This includes technical support in data processing as well as support in the interpretation of data and results. It is expected that the application specialist remain up to date with developments in hardware and software related to sequencing analysis.

The position can also include active participation in a research project on speciation and population genomics of flycatchers (see Ellegren et al. 2012. *Nature* 491:756-760), the extent of which will be decided upon together with the successful applicant.

Required qualifications: A doctoral degree in bioinformatics, computer science, genomics or population genetics, or a masters degree in relevant areas with working experience from bioinformatics analyses. Thorough knowledge in programming is a prerequisite. Since the position involves close interaction with several research groups, personal skills will be given importance, such as:

- Very good collaborative, pedagogic and analytical skills,
- Ability to work independently and take own initiatives
- A well-developed sense for responsibility and servicemindness
- A well-developed ability for oral and written communication

Experience from bioinformatic service is of merit, as is previous experience from large-scale analyses of next-generation sequencing data. Salary will be set according to competence.

Further information can be obtained from professor Hans Ellegren (Hans.Ellegren@ebc.uu.se), phone +46-18-471 6460. Trade union representatives are Anders Grundström, SACO (the Swedish Confederation of Professional Associations), phone +46-18-471 5380, Carin Söderhäll, TCO/ST (the Swedish Confederation of Professional Employees), phone +46-18-471 1996 and Stefan Djurström, SEKO (the Union of Service and Communication Employees), phone +46-18-471 3315.

Applications must be submitted online no later than April 19 through the Uppsala University system for job advertisements. Use the link below to access the application form.

<http://www.uu.se/jobb/others/-annonsvisning?tarContentId=3D237033>
Reference number: UFV-PA 2013/652

Reference

hans.ellegren@ebc.uu.se

VirginiaTech Evolution LabTech

A laboratory technician position is available in the McGlothlin Lab at Virginia Tech. Our lab focuses on evolutionary genetics in various reptile species. The technician would participate in various aspects of these projects, including supervision of animal care and molecular work.

See <http://listings.jobs.vt.edu:80/postings/38720> or inquire directly for details. For full consideration, applications must be received by April 8, 2013.

Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences 2125 Derring Hall, Blacksburg, VA 24061

<http://www.faculty.biol.vt.edu/mcglotthlin> Email: joelmcg@vt.edu Office Phone: (540) 231-0046
joelmcg@vt.edu

WillametteU BioStatisticsBioinformatics

Dear Colleagues,

Willamette University is seeking to hire an applied statistician as a three-year visiting assistant professor. Applications are welcome from candidates working in any area of applied statistics; the home department of the successful candidate will be determined based on her area of expertise. Applicants working in bioinformatics, biostatistic, computational and systems biology, ecological statistics, physiology, and statistical genetics are particularly encouraged to apply.

The candidate will be expected to teach introductory statistics and courses in the candidate's area of expertise, as well as serving as a statistical consultant in the QUAD (Quantitative Analysis and Design) Center.

The full official job announcement is below, following my signature line. Note that review of applications will begin soon (March 15th).

Christopher Irwin Smith Assistant Professor Department of Biology Willamette University Salem, OR

97301 ph: 503-370-6181 fax: 503-375-5425

Lab Website: <http://www.willamette.edu/~csmith/ChrisSmith.htm> Official Announcement:

<https://jobs.willamette.edu/postings/685> Position Summary Willamette University seeks to hire for a position at the Visiting Assistant Professor level that jointly emphasizes applied statistics and a disciplinary specialty within its undergraduate College of Liberal Arts. The home department will be determined by the specialty of the successful candidate; likely departments include Biology, Economics, Exercise Science, Mathematics, Politics, Psychology, and Sociology. Position to start Fall 2013.

The position, renewable for up to 3 years, carries an annual 6-course teaching assignment in the form of a) at least two sections per year of a general, introductory statistics offering, b) other courses to be determined based on the needs of the College and the expertise of the person hired, and c) a one-course-equivalent assignment to the Quantitative Analysis & Design Center (QUAD) to serve as a staff training mentor and consultant for thesis projects, student/faculty collaborative research, and other specialty needs of the center.

Academic specialty is open; preferred qualifications include a breadth of statistical training that allows the candidate to serve as a consultant to advanced undergraduates and faculty across a range of disciplines, research projects, study designs, and data types.

This position is eligible for medical and dental benefits, and elective salary deferral into the university retirement plan.

Additional Information/About the Department Willamette University, founded in 1842, is the oldest institution of higher education in the Far West. Willamette University is a selective residential liberal arts college in the heart of the Willamette Valley. Situated in Oregon's capital city, Willamette includes the College of Liberal Arts (approximately 2000 students), and graduate programs in Education, Law, and Management. The academic year is divided into two semesters, beginning in late August and ending in May. The academic undergraduate profile is competitive, with a GPA of 3.84 and average composite SAT scores of 1260. Willamette students are recipients of prestigious national awards annually, such as NSF, Watson, Truman, Fulbright and Goldwater fellowships. The university is committed to living out its motto "Not unto ourselves alone are we born" by incorporating the principles of sustainability, social justice, and action. Salem is located in the center of the picturesque Willamette Valley, approximately

an hour's drive from the Pacific Coast, the Cascade Mountains, and the cities of Portland and Eugene. For more information about Willamette, visit our website at www.willamette.edu. Believing that diversity contributes to academic excellence and to rich and rewarding communities, Willamette is committed to recruiting and retaining a diverse faculty, staff and student body. We seek candidates, particularly those from historically under represented groups, whose work furthers diversity and who bring to campus varied experiences, perspectives and backgrounds.

Required Qualifications Academic specialty is open. Ph.D. preferred, ABD considered.

Preferred Qualifications Preferred qualifications include a breadth of statistical training that allows the candidate to serve as a consultant to advanced undergradu-

ates and faculty across a range of disciplines, research projects, study designs, and data types.

Special Instructions Thank you for considering an academic position within Willamette University (WU). Please note that you will need to create an account in order to apply, if this is your first time applying online with WU.

The following materials will need to be uploaded as part of your online application:

- Cover letter of interest

— / —

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>

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Annelid Sequencing project

Dear Colleagues,

Approximately two years ago we announced a community-based sequencing service for annelids within the framework of the NSF AToL Grant "Worm-Net II - Assembling the Annelid Tree of Life". We have had a number of responses which led to interesting collaborations. We would like to inform the community that the project is still ongoing and that we are still

accepting proposals which will be evaluated on a case-by-case basis.

The project is intended to resolve phylogenetic relationships among closely related annelid species and to investigate genetic diversity within selected species and complexes of cryptic species. The service is available at no charge to researchers who can supply appropriately preserved material.

What we offer:

- * Sequencing of the two mitochondrial markers cytochrome c oxidase subunit I (COI) and 16S ribosomal RNA for approximately 3000 annelid samples, supplied by the community over a five-year period. Samples may consist of whole specimens, tissue samples or cleaned PCR products. Species not represented in GenBank will have priority.

- * Databasing of collection information and sequence data in a centralized databank at Auburn University

- * Collaboration on data analysis and publication

- * Deposition of voucher material in museum collections, if applicable Interested parties are requested to supply a short description of the intended project, including the approximate number and type of samples, preservation method, permit requirements and status, shipping needs and logistics, plans for deposition of voucher material in museum collections (if not done by processing lab) and expected time frame for processing, data analysis and publication. A sample proposal is pasted below. Details of authorship of any resulting publications will be negotiated on a case-by-case basis. A Memorandum of Understanding between the party supplying the samples and the processing lab will outline the responsibilities of each party. Interested researchers should contact:

Anja Schulze, Texas A&M University at Galveston; Email: schulzea@tamug.edu Or: Frank Anderson, Southern Illinois University; Email: feander@siu.edu

Sample Proposal: My Ph.D. student is currently working on a morphological data set for the eunicid polychaete genus *Palola*. As the species in this genus are morphologically very similar we need to add molecular data to analyze the phylogeny of the genus. We have a total 40 specimens fixed and preserved in 95% ethanol which we think represent five different species. The specimens were collected in Belize, Panama, Palau and the Federated States of Micronesia in 2008. Copies of the respective collection and export permits will be provided. We will send whole specimens by regular mail in small amounts of ethanol. We have not made arrangements for deposition of voucher material in museum

collections and would appreciate if you could assist us in this matter. We request the COI and 16S sequence data by Sept. 2011 because the student has to submit a manuscript draft by Dec. 2011. We may also require assistance with data analysis.

Anja Schulze, Ph.D. Associate Professor, Marine Biology Texas A&M University at Galveston 200 Seawolf Parkway OCSB Bldg 3029, Rm 258 Galveston, TX 77553 Phone: 409-740-4540 Fax: 409-740-5001

schulzea@tamug.edu

Bioinformatics on RaspberryPi

Dear Evoldir,

We are happy to announce the release of 4273pi:

<http://eggg.st-andrews.ac.uk/4273pi> 4273pi is for those wishing to teach, learn or use bioinformatics on the low-cost Raspberry Pi computer. 4273pi is a customised distribution of Raspbian GNU/Linux and includes an Open Access bioinformatics course, 4273pi Bioinformatics for Biologists. 4273pi Bioinformatics for Biologists is a general course, with significant coverage of evolutionary bioinformatics.

Best wishes,

Daniel

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

db60@st-andrews.ac.uk

Divorce rates in birds

Request for data on divorce rates in birds

For a comparative project, Profs Andras Liker, Robert Freckleton and I are looking for data on divorce (or mate retention) from well-studied bird populations. We need percentage of adults that survived from one year to another, but divorced from their previous mate.

We need between year divorce rates, and it is important that the previous mate of divorced individuals is also

alive; so that mate change is not due to death of the former mate.

We appreciate the data in the following structure: (i) scientific name of the species (ii) number of breeding males that kept the mate from one year to another, (iii) number of breeding males that remained alive but divorced from their previous mate and the previous mate is also alive, (iv) number of breeding females that kept the mate from one year to another, (v) number of breeding females that remained alive but divorced from their previous mate and the previous mate is also alive.

Please also say how we should cite the data.

Best regards,

Andras Liker, Rob Freckleton and Tamas Szekely
T.Szekely@bath.ac.uk

EvoDevo Workshop survey

Dear Colleague,

We are planning to have a small NSF-supported workshop in December 2013 to define the key goals, biological questions, needs and future directions of the field of Evolutionary Developmental Biology (“Evo-Devo”). We would like your input!

Because the meeting will need to be small and well balanced to facilitate meaningful discussion (25 participants), we hope that you will be willing to assist us by filling out this brief survey to help us identify potential participants and define the key questions you think the meeting should address, and the key outcomes that should result from the meeting. The survey should not take more than 10 minutes of your time, and will help us to identify potential participants and focus on the key issues that are of greatest interest and concern to our community.

As we need to get the meeting dates and participants solidified as soon as possible, it would be very helpful if you could fill out and return the survey by April 5, 2013, even if you fill out only part of it.

If you have already received an email inviting you to complete this survey, please do NOT fill it out a second time. If you would like to think more about some of the answers or provide additional input, simply send one of the organisers (listed below) an email containing your further thoughts.

A brief description of the stated Aims of the original NSF proposal for this meeting is provided below.

Here is the link to the survey: <https://www.surveymonkey.com/s/C3JXMB8> Thank you very much for your time and input! Meeting Organisers Cassandra Extavour, Harvard University (extavour@oeb.harvard.edu) Allen Rodrigo, NESCent (a.rodrigo@nescent.org)

Workshop Objective: The field of research currently known as “Evo-Devo” is a broad, interdisciplinary combination of multiple “parent” fields of investigation, each of which have long and distinct histories. However, the integration of these fields remains challenging at many levels. The objectives of this workshop are to bring together a small number of interactive Evo-Devo researchers from a range of backgrounds to consider several fundamental issues:

- 1: To define the principal intellectual goals and biological questions of Evo-Devo, as it looks to the future.
- 2: To identify the next generation of resources and infrastructure necessary to ensure the ongoing success of Evo-Devo research, and propose mechanisms to develop and obtain these resources.
- 3: To identify the major gaps in Evo-Devo training and education nationally and internationally, and propose solutions to address these gaps.

Dr. Cassandra Extavour extavour@oeb.harvard.edu

Associate Professor Department of Organismic and Evolutionary Biology Harvard University 16 Divinity Avenue, BioLabs 4103 Cambridge, MA 02138, USA

<http://www.extavourlab.com> Office Tel. 1 617 496 1935 Lab Tel. 1 617 496 1949/1200 Fax. 1 617 496 9507

Extavour Lab Administration: Mimi Velazquez Tel. 1 617 496 2132 nvelazquez@oeb.harvard.edu

EDEN: Evo-Devo-Eco Network <http://www.edenrcn.com> edenrcn@fas.harvard.edu

EDEN Administration: Barbara Perlo perlo@fas.harvard.edu

FieldEquipment Vandalism

Dear colleagues,

Field biologists regularly leave scientific equipment

unattended in the field for data collection. We conduct a study on vandalism and theft of such equipment, and particularly how it can be reduced. We are therefore interested in learning if and how often such incidences do happen.

We would be pleased to hear from researchers working in any area of biology and using any kind of unattended equipment in the field, e.g., animal traps and nets, camera traps, autonomous recording devices, nest boxes, sap sampling systems, mesocosms, etc. (Being an animal ecologist, I do not know many systems used for plant/bacteria/fungi/. research and would very much like to learn about these, too.)

More specifically, we would like to learn about the following questions:

- 1) Incidences: Had any of your equipment been damaged or stolen? How many occurrences did you experience, of how many deployed equipment units, over which period? (We also would like to hear from you if this never happened to your equipment, despite the possibility for vandalism and theft.)
- 2) Equipment and Protection: What kind of equipment did you use, where was it placed in the field, how was it secured, hidden or otherwise protected?
- 3) Harm: What kind of damage, financially, scientifically and otherwise, did this cause to you?
- 4) Reasons: Do you have any thoughts about why these incidences happened?

We would appreciate your time and help a lot. Thank you very much and best regards,

Holger Goerlitz

hgoerlitz@orn.mpg.de +49 8157 932-372

Sensory Ecology Group Max Planck Institute for Ornithology Seewiesen, Germany

– Dr. Holger R. Goerlitz

Max Planck Institute for Ornithology Sensory Ecology Group Eberhard-Gwinner-Strasse 82319 Seewiesen Germany

phone: +49 (0)8157 932-372 fax: +49 (0)8157 932-344 hgoerlitz@orn.mpg.de http://www.orn.mpg.de/-129793/ERC_interBat hgoerlitz@orn.mpg.de

Fluorescent Dyes Question

I am trying the design a microsatellite loci multiplex PCR using primers labeled with ATTO0550, ATTO0565 or Cal Fluor 560 and Yakima Yellow fluorescent dyes, but they are detected by more than one channel using filter sets G5 or E5 in a 3500 Genetic Analyzer. Are there specific Matrix standards for these dyes, or protocols to construct them?

Thanks. eugenia

Dr Maria Eugenia D'Amato Associate Professor University of the Western Cape, Department of Biotechnology, Forensic DNA Lab. Private Bag X17, 7535 Bellville. Cape Town. South Africa.

medamato@uwc.ac.za Fax : + 27 21 959 3505 Te: +27 21 959 3372/2065

www.forensicdnalab.org.za Maria Eugenia D'amato <medamato@uwc.ac.za>

**ISTAustria SummerInternship
Apr1Deadline**

IST Austria has just launched a summer internship program for outstanding undergraduate and masters students interested in basic research in a wide range of areas, including evolutionary biology. Interns will choose a group to work in, will be assigned a specific project and will conduct research under the close supervision of one of the members of the faculty and, for experimental labs, a lab mentor.

Duration: 8 -12 weeks between May 15 and September 15 Benefits: Salary, full social security coverage, reimbursement of travel costs, subsidized housing

To apply for the program and to see a list of IST Austria faculty members participating in the program, visit <http://ist.ac.at/research/isternship> . The deadline for applications is APRIL 1, 2013 To learn more about IST Austria please visit www.ist.ac.at. For inquiries, please contact istintern@ist.ac.at.

Nick.Barton@ist.ac.at

**KentStateU SummerUndergradREU
AdaptationHumanImpacts**

ANNOUNCING: Summer 2013 REU opportunity focused on Terrestrial-aquatic linkages in urban impacted ecosystems at Kent State University and The Holden Arboretum Kent State University and The Holden Arboretum invite applicants for a 10-week summer research training program. Students enrolled in this program will conduct mentored research into the importance of terrestrial-aquatic linkages in the ecology of urban-impacted ecosystems. This research will be designed to examine how human activities such as urbanization, industry, farming, mining, and recreational activities affect the way terrestrial and aquatic ecosystems interact. Projects might compare sites with and without urban impact to examine: nutrient cycling in soils and streams, microbial community composition in forest soils and stream sediments, plant-soil interactions, how shredders modify terrestrial leaf litter input to stream ecosystems, the effects of terrestrial pollutants on aquatic microbial community structure and function, how terrestrial and aquatic biogeochemical cycles are affected by human activities such as acid precipitation and land-use change. Along with learning about hypothesis generation, project design, and ethics in research, students will receive additional training archiving data in a geospatial database and will participate in weekly seminars. Participants will be provided housing, a meal allowance, and a \$500/week stipend. Students must have good standing at a community college, college or university and be a United States citizen or permanent resident. Members of underrepresented groups are strongly encouraged to apply. Deadline for applications March 25, 2013. For more information and application procedures please see the program website at <http://ecologyREU.kent.edu> or contact the REU Coordinator at ecologyREU@kent.edu or the PIs Patrick Lorch (plorch@kent.edu) or Kurt Smemo (kurt.smemo@gmail.com).

-Pat

Patrick Lorch

Ecology REU: ecologyREU@kent.edu <http://ecologyreu.kent.edu> Biological Sciences Dept. Kent State University

O: 330-672-7888 Lab web page: <http://lorchlab.wordpress.com> "LORCH, PATRICK" <plorch@kent.edu>

Kimberley Australia VolFieldAssist MammalConservation

"Volunteer Field Assistant Required

Ecology of Threatened Northern Australian Mammals

A volunteer field assistant is needed to help Ian and Richard with a project investigating fire and mammal ecology in the Kimberley, northern Australia. This project relates to recent declines among native mammals across much of northern Australia. Field work will be conducted in the Kimberley region of Western Australia and based out of Kununurra from May to Sep 2013 (specific dates may vary). Volunteers will be involved with trapping, identifying, handling and measuring a range of mammal species from small rodents up to larger marsupials including possums, bandicoots and quolls (5 g - 5 kg). There will be significant involvement in measuring/identifying vegetation, habitat assessment and data entry. You will need to be prepared for early mornings, long hours in tropical conditions (e.g. long walks carrying traps over rocky terrain, high humidity and temperatures >35oC), sharing cooking duties and living and working in a small team. You will need to have a good work ethic and you must be easy to get along with as field work under arduous conditions can bring out both the best and worst in people! Desirable qualifications include experience with animal handling and ecological methods for undertaking vegetation survey. Accommodation, food and travel associated with field work within Australia will be covered (about half of the time), however the volunteer will provide their own food while based in Kununurra and all their international travel costs. Some accommodation costs may be covered while in Kununurra. If you would like to apply please email Ian Radford (ian.radford@dec.wa.gov.au) outlining your suitability for the role, relevant experience and two references.

Deadline: April 20th 2013

Ian Radford Department of Environment and Conservation, Western Australia"

"Radford, Ian" <Ian.Radford@dec.wa.gov.au>

Lepidoptera Evolution Issue

Psyche: A Journal of Entomology Call for Papers

Special Issue: Genetics, Genomics, and Evolution of the Lepidoptera

The insect order Lepidoptera, which contains butterflies and moths, is one of the most diverse groups of animals in the world. Decades of research on moths and butterflies have yielded a wealth of information regarding their natural history, ecology, and behavior. Today, butterflies and moths are emerging as important systems in the study of ecological genetics, evolutionary genomics, and speciation. Furthermore, multiple moth and butterfly genome sequences have recently been published. We invite investigators to contribute original research papers, as well as review papers, that address novel aspects at the interface of genetics, genomics, and evolutionary biology.

Potential topics include, but are not limited to:

Molecular phylogenetics Phylogeography Empirical population genetics Genetics of adaptation Speciation genetics and genomics Evo-devo Wing patterning and mimicry Molecular evolution Comparative genomics

Before submission, authors should carefully read the journal's Author Guidelines, which are located at <http://www.hindawi.com/journals/psyche/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/psyche/gge/> according to the following timetable:

Manuscript Due Friday, 2 August 2013 First Round of Reviews Friday, 25 October 2013 Publication Date Friday, 20 December 2013

Lead Guest Editor: Marcus Kronforst, Department of Ecology & Evolution, University of Chicago, 1101 E. 57th Street, Chicago, IL 60637, USA

Guest Editors: Sean Mullen, Department of Biology, Boston University, 5 Cummington Street, Boston, MA 02215, USA

Erik Dopman, Department of Biology, Tufts University, 200 Boston Avenue, Suite 4739, Medford, MA 02155, USA

Marcus Kronforst <mkronforst@uchicago.edu> Mar-

cus Kronforst <mkronforst@uchicago.edu>

Logo for NSF CenterStudyEvolution

Want to experience evolution first-hand?

We are happy to announce that the NSF BEACON Center for the Study of Evolution in Action is hosting an evolved art competition running from March 1st through May 31st, 2013. The goal of this competition is to evolve an alternative lighthouse to the BEACON lighthouse on the collaborative art evolution web site Picbreeder <<http://picbreeder.org/>>. The top three lighthouses submitted will receive monetary awards of \$200 (1st place), \$100 (2nd place), and \$50 (3rd place). With control over the creative power of evolution, can you evolve BEACONs new logo?

For more information, please visit: <http://beacon-center.org/blog/2013/03/01/evolved-art-competition-evolve-the-new-beacon-logo/> – Randal S. Olson

Computer Science PhD Student Michigan State University E-mail: rso@randalolson.com
<http://www.randalolson.com> Randy Olson
 <rso@randalolson.com>

Long-Short Term Effective Population size

Hi

I am looking for a review-article/book-chapter/web-site or any other source that contains a clear, "teachable" explanation of the difference between short-term effective population size and long-term effective population size. My searches yielded a small paragraph in Michael Lynch's book "The Origins of Genome Architecture," and that was not nearly sufficient.

Thank you Dan Graur

Department of Biology & Biochemistry University of Houston dgraaur@uh.edu

dgraaur@gmail.com

Rosie

“DAWKINS, Rosanne” <rosanne.dawkins@oup.com>

New SMBE website

Hi folks,

We have launched a new SMBE website (<http://www.smbe.org/>). Please go and have a look at it. It is designed to be more engaged with social network sites such as Facebook and Twitter and we hope to update it regularly with information on upcoming meetings, etc.

Also, you can easily see what the “Most Read” papers from MBE and GBE have been over the last month.

We also have a new Twitter Stream (<http://www.twitter.com/OfficialSMBE>) and a new Facebook page (<http://www.facebook.com/OfficialSMBE>), so please follow and like those outlets, if you have the relevant accounts.

If you have any comments to make about the site, please let me know and I will do my best to accommodate them. In the near future, we hope to have guest blog posts from the authors of recent papers in MBE and GBE, in order to facilitate bringing these papers to the attention of a wider audience.

Best,

James McInerney Secretary, SMBE 2013-2016.

Prof. James McInerney, | Currently: Molecular Evolution & Bioinformatics Unit, | Visiting Scientist, Department of Biology, | Center for Communicable Disease Dynamics, National University of Ireland Maynooth, | Harvard School of Public Health, Co. Kildare, Ireland. | 677 Huntington Avenue Boston, | Massachusetts 02115 | USA website — <http://bioinf.nuim.ie/> mcinerney.james@gmail.com

OxfordU WDHamiltonLife PanelDiscussion Mar22

Celebrating the Life of W.D. Hamilton, Nature’s Oracle. Panel event to discuss and celebrate his extraordinary life and science, with Peter Holland (Chair), Ullica Segastrale (author of the new book, Nature’s Oracle), Alan Grafen, and Stuart West. 4 - 5.30pm, 22 March 2013, Dept. of Zoology, Oxford.

Phyloseminar NormPace Apr16

Next on <http://phyloseminar.org/> “Following Carl Woese into the Natural Microbial World V The Beginnings of Metagenomics” Norman R. Pace (University of Colorado V Boulder)

Carl Woese, one of the great scientists of all time, died in December, 2012. Among other important contributions, he used primitive sequencing technology to compare small subunit (16S) ribosomal RNA sequences from different organisms and thereby establish the outlines of a universal tree of life. His results also put in place a sequence-based reference framework within which to understand and articulate biological diversity. Since this perspective is based on molecular sequences and not properties of organisms, it opened the door to begin to understand the kinds of organisms that make up the natural microbial world. Prior to Woese’s sequence-based reference framework, microbial ecologists had to culture organisms to study them, but not many environmental organisms, <<1%, are cultured using standard methods. Sequence surveys of environmental microbial genes and genomes V - have now revolutionized understanding of microbial ecology, including its influence on human health. The seminar will discuss how metagenomics developed and the impact it has had on our understanding of environmental microbial diversity and the structure of the molecular tree of life.

West Coast USA: 11:00 (11:00 AM) on Tuesday, April 16
East Coast USA: 14:00 (02:00 PM) on Tuesday, April 16
UK: 19:00 (07:00 PM) on Tuesday, April 16
France: 20:00 (08:00 PM) on Tuesday, April 16
Japan: 03:00 (03:00 AM) on Wednesday, April 17
New Zealand: 06:00 (06:00 AM) on Wednesday, April 17

Note that our community authorization key is “gardenia2013” if you haven’t come to the last couple of talks.

– Frederick “Erick” Matsen, Assistant Member
Fred Hutchinson Cancer Research Center <http://matsen.fhcr.org/> Erick Matsen <matsen@fhcr.org>

Phyloseminar ThomasCurrie Mar11

Next on <http://phyloseminar.org/> “Bobbins, Borrowing, and Bayesian Inference: Horizontal Transfer and the application of Phylogenetic Methods in Cultural Evolution studies” Thomas Currie (University College London)

Researchers have applied quantitative phylogenetic methods to study human cultural and linguistic evolution. However, a common critique of this approach is that cultural evolution and biological evolution differ in important ways that make phylogenetic analyses unsuitable for cultural data. Principally, horizontal transmission (or borrowing) of cultural and linguistic traits is argued to be so pervasive as to invalidate the approach. In this talk I will address this issue by asking how much does horizontal transfer occur?, and does it matter if it does? Contra the skeptics, I will discuss studies that demonstrate that 1) many biological systems also show non-tree-like patterns of evolution, 2) cultural systems vary in the degree to which horizontal transfer occurs, and 3) borrowing does not necessarily cause big problems. Rather than being a reason to give up on the whole project, borrowing can be productively investigated using phylogenetic techniques to yield deeper insights cultural and linguistic evolution.

West Coast USA: 10:00 (10:00 AM) on Monday, March 11
 East Coast USA: 13:00 (01:00 PM) on Monday, March 11
 UK: 17:00 (05:00 PM) on Monday, March 11
 France: 18:00 (06:00 PM) on Monday, March 11
 Japan: 02:00 (02:00 AM) on Tuesday, March 12
 New Zealand: 06:00 (06:00 AM) on Tuesday, March 12

Note that our community authorization key is “gardenia2013” if you haven’t come to the last couple of talks.

– Frederick “Erick” Matsen, Assistant Member
 Fred Hutchinson Cancer Research Center <http://matsen.fhcrc.org/> ematsen@gmail.com

Pyrenees VolFieldAssist EvolBiol

Field assistants summer 2013: Volunteer positions in evolutionary biology

The Barton group (Evolutionary genetics) at IST Austria requires volunteers to assist with field work on plant speciation in the Pyrenees (Spain) this coming summer (May-July).

The project: We are studying the evolutionary dynamics underlying species diversification in the genus *Antirrhinum* (snapdragons). We are using a range of ecological, molecular and population genetic studies to investigate the dynamics of speciation in a hybrid zone between species with different flower colours. This is a great opportunity for anybody looking to obtain experience in field work relating to evolutionary biology, plant ecology and plant-animal interactions. You will also be part of a large multidisciplinary team including researchers from IST Austria (Vienna), John Innes Centre (Norwich, UK) and the University of Toulouse.

For these positions we are looking for hard working and enthusiastic biology students with a strong interest in working in the field with plants. You must also be comfortable working as part of a team. Experience with field-based projects and plants is preferred but not essential.

We require assistance between mid May and early July. Length of stay is flexible but a minimum stay of 3 weeks is required.

The field site is located near Ripoll in the Eastern Pyrenees of Northern Spain. It is easy to get to by train from Barcelona (~2 hours). The hybrid zone is located at ~1200m altitude in open forest and all daily transport will be covered. Food, accommodation and travel (within Europe) are covered. However, we cannot offer any further stipend.

How to apply? Please send by the closing date of 12th April, a statement of your background, CV, why you are interested and the length of time you would be available via email to:

david.field@ist.ac.at

Dr. David Field

Postdoctoral Fellow - Barton Group

IST Austria, Am Campus 1, Klosterneuburg 3400

Phone: +432243 9000 3008

Web: <http://ist.ac.at/research-groups-pages/barton-group/team/david-field/> david.field@ist.ac.at

Reprint request

Hello evoldir members, Does anyone have a (electronic?) copy of this publication:

Wen, Jun, Ickert-Bond, S., Nie, Z. -L and Li, R. 2010. Timing and modes of evolution of eastern Asian - North American biogeographic disjunctions in seed plants. In: Long, M., Gu, H. and Zhou, Z., Darwin's Heritage Today : Proceedings of the Darwin 2010 Beijing International Conference. Beijing: Higher Education Press, pp.252-269.

I would much appreciate a copy. Many thanks already.

Heidi Schwaninger Heidi.Schwaninger@ars.usda.gov

"Schwaninger, Heidi" <Heidi.Schwaninger@ARS.USDA.GOV>

SSB GradStd Award

SSB Graduate Student Research Award

FINAL ANNOUNCEMENT The Society of Systematic Biologists (SSB) announces the 2013 annual Graduate Student Research Award competition. The purpose of these awards is to assist students in the initiation (FIRST TWO YEARS) of their systematics projects and in the collection of preliminary data to pursue additional sources of support (e.g., Doctoral Dissertation Improvement Grants from the National Science Foundation) or to enhance dissertation research (e.g., by visiting additional field collection sites or museums). Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: <http://systbio.org/?q=node/6>). Previous awardees may not re-apply, but previous applicants who were not selected for funding are encouraged to re-apply. Awards range between \$1,200 - \$2000 and approximately 10-15 awards will be made.

How to Apply: applicants must submit

1. a curriculum vitae (one page); 2. brief research proposal including objectives, methods, significance, and schedule (max. three single-spaced pages including literature cited and any figures and tables); 3. budget and

budget justification (one page); 4. and arrange for two reference letters; one letter must be from the student's current graduate advisor.

All application materials must be in electronic format. Applicants and those writing reference letters are required to use pdf format to minimize difficulties in file transfer. Applicants should send all materials (except reference letters) in a SINGLE pdf file. Letters of reference should be sent separately by the referees in pdf format or in the text of an e-mail; please include the FULL NAME OF APPLICANT in reference letters.

Please email all application materials and queries to Sean Brady, Chair of the SSB Awards Committee at bradys@si.edu. IN THE SUBJECT LINE OF THE EMAIL, PLEASE INDICATE "Student Research" FOLLOWED BY FIRST INITIAL AND LAST NAME.

To be considered for this year's award, application materials, INCLUDING letters of recommendation, must be received electronically no later than March 31, 2013.

Please see the SSB website (<http://systbio.org/?q=node/22>) for additional details of this award. Questions via email may be addressed to Sean Brady (bradys@si.edu).

PROPOSAL SUBMISSION DEADLINE IS MARCH 31, 2013

Sean Brady SSB Awards Chair bradys@si.edu

Seán Brady Research Entomologist Curator of Hymenoptera National Museum of Natural History Smithsonian Institution email: bradys@si.edu phone: 202-633-0997 website: <http://entomology.si.edu/StaffPages/BradyS.htm> "Brady, Sean" <BRADYS@si.edu>

SSB MiniARTS grant

SSB Mini-ARTS grant

FINAL ANNOUNCEMENT The Society of Systematic Biologists (SSB) is pleased to announce the availability of awards for revisionary taxonomy and systematics, modeled after the NSF Dear Colleague Letter: Advancing Revisionary Taxonomy and Systematics (ARTS) recently developed within the Systematics and Biodiversity Science Cluster. We are calling these 'mini-ARTS' grants. These awards are designed to allow SSB members (students, post-docs, and faculty) to spend a summer or semester apprenticed to an expert in a partic-

ular taxonomic group or to enhance revisionary taxonomic and systematics research in novel ways. Goals of this award program are to address constraints on our knowledge of undescribed biodiversity, assist in passing on taxonomic expertise before it is lost, increase the number of students with broad training in organismal biology and systematics, and support projects in biodiversity and taxonomy informatics as well as monographic and revisionary taxonomy. Activities can include a trip to the taxonomist's laboratory, pay for the taxonomist to visit the applicant's laboratory for a period of time, or pay for costs of computer time or development of interactive keys for electronic dissemination of systematics results. Requests for support may be in any amount up to \$3,000. We will fund two or three of these awards this year. Please visit NSF's website <http://www.nsf.gov/pubs/2011/nsf11037/nsf11037.jsp> for more information about their ARTS program.

How to apply - a complete application includes: 1) a brief description of the project, including a separate section justifying the importance of the taxon and the revisionary work; 2) an itemized budget; 3) the applicant's CV; and 4) a letter of support from the taxonomic expert or collaborator. If the applicant is a student or post-doc, please also include a reference letter from the advisor. Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: <http://systbio.org/?q=node/6>). The narrative part of the application should be no more than two pages, including the budget, but not including the curriculum vitae and letter(s).

Grant applications should be sent to Sean Brady, Chair of the SSB Awards Committee (bradys@si.edu<<mailto:bradys@si.edu>>). E-mail submissions are required, and applicants should use pdf format for all documents. In the subject line of the email, please indicate the SSB award category as 'mini-ARTS'. All documents, INCLUDING ALL SUPPORTING LETTERS, must be received by March 31, 2013 for consideration.

Please see the SSB website (<http://systbio.org/?q=node/26>) for any updates or additional information about this award.

PROPOSAL SUBMISSION DEADLINE IS MARCH 31, 2013

Sean Brady SSB Awards Chair bradys@si.edu

Seán Brady Research Entomologist Curator of Hymenoptera National Museum of Natural History Smithsonian Institution email:

bradys@si.edu phone: 202-633-0997 website: <http://entomology.si.edu/StaffPages/BradyS.htm> "Brady, Sean" <BRADYS@si.edu>

Software DAMBE update

Dear All,

I have added to DAMBE a new and unique phylogenetic function for extremely diverged nucleotide sequences (e.g., rRNA sequences from early lineages prokaryotes) from which a multiple alignment cannot be obtained reliably. The approach is to start with unaligned sequences, perform only pairwise alignment, and estimate the maximum composite likelihood distances based on the TN93 model from all the pairwise alignment, and then use the FastME or NJ to build the tree. It produces surprisingly satisfactory results.

Please download the new version of DAMBE (dambe.bio.uottawa.ca/dambe.asp) to try it. You access this function by clicking 'Phylogenetics|Tree with pairwise nuc alignment'.

The only drawback is that it is quite slow (I used the affine function gap penalty and a large nuc substitution matrix accommodating all ambiguous codes for pairwise alignment, and the simultaneous estimation of distances is also slow as it takes information from all pairs of sequences). So start with a small data set with sequences that are not too long.

Best Xuhua

Xuhua Xia Professor Biology Department University of Ottawa Rm 278 Gendron 30 Marie Curie, Ottawa, Ontario Canada K1N 6N5 Tel: (613) 562-5800 ext 6886 <http://dambe.bio.uottawa.ca> <http://www.biology.uottawa.ca/details.php?lang=-3Deng&id=3D31> Xuhua.Xia@uottawa.ca

Training in phylogeny answers

Dear evoldir members,

We tried to gather information about courses or trainings on (i) phylogenetic reconstructions and (ii) high-throughput sequencing techniques. Since it could be of

great interest for the community, here is the roughly compiled information :

- Summer Schools in the future :

Probably soon :

<http://www.nescent.org/courses/> <http://www.wellcome.ac.uk/Education-resources/Courses-and-conferences/Advanced-Courses-and-Scientific-Conferences/Advanced-Courses/WTX060194.htm>

<http://www.zoologie.uni-rostock.de/whs-xxxii/> <http://www.molecularevolution.org/> I also remember very well the 1999 course on cladistics by the Willi-Henning Society (<http://www.cladistics.org/workshops.html>), which was still performed in 2011 with a few of the original teachers.

Czech Republic :

The courses in Cesky Krumlov would be ideal for you. There is a week on Genomics and a week on molecular Evolution. Unfortunately the course is running right now and nearly finished so the next one won't be likely until January 2014. The course page is here: <http://evomics.org/> and all the course notes are still there so in theory you could work through these yourself if you wanted.

highly recommended!!!

USA : For phylogenetic reconstruction I suggest the course in Woods Hole Marine Biological Laboratory (see: http://hermes.mbl.edu/education/courses/special_topics/mole.html)

In France :

(Bioconductor) : http://sfc.univ-rennes1.fr/informatique/SC_introduction-R-bioconductor.htm

If you speak french there is an awesome course on phylogeny in the university of Montpellier 2, by Emmanuel Douzery.

<http://abacus.gene.ucl.ac.uk/CoME/> In Belgium : <http://www.vib.be/en/training/research-training/courses/Pages/default.aspx?VIBCourseCategory=Bioinformatics%20and%20Statistics> Every two years, normally, a great workshop is organized both in the USA and in Europe (for example in Liège, Belgium) : Summer Institute in Statistical Genetics. Information can be found for the USA ; we do not know about Europe. It can be worthy to have a deeper look :

<http://www.biostat.washington.edu/node/967> - Past or current online courses/seminars

<http://iphylo.org/~rpage/phyloinformatics/course/> < <http://iphylo.org/%7Erpage/phyloinformatics/course/> >

http://www.bioinformatics.org/wiki/Educational_services-> font des cours en ligne

<http://phyloseminar.org/recorded.html> I had an excellent experience as participant of the first S Star online course in 2001, which went up to a 6th Edition in 2005, but probably no further : <http://s-star.asti.dost.gov.ph/course.html> In response to your question on EvolDir, Simon Ho (University of Sydney) and Rob Lanfear run a short introductory workshop to phylogenetic inference. Simon put most of it together. It covers basic theory, and has practical components for alignment, maximum likelihood, and Bayesian methods using a variety of software (Geneious, RAxML, PartitionFinder, and BEAST). It's suitable for biologists with little or no experience of phylogenetics, and can also be useful for people who are comfortable with the methods to brush up on their skills, and the latest software. Info from one of the courses is here:

<http://www.robertlanfear.com/phyloworkshop/> Info for other iterations of the course can be found on Simon's faculty website:

<http://sydney.edu.au/science/biology/meep/events/-workshop.shtml> Best,

Gwennaël

Le 25/01/2013 14:46, Gwennaël Bataille a écrit :

Dear all,

We are highly interested in gathering information about courses or

— / —

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>

USalford Biodiversity

The Biodiversity, Conservation, Management & Evolution (BiCoME) group at the University of Salford aims to expand its involvement with international research mobility through the support of prospective Marie Curie Fellowship applicants. The BiCoME is a dynamic and eclectic group of researchers interested in a broad range of systems and methods to investigate the mechanisms generating biodiversity, and identify strategies to conserve endangered biota and manage exploited resources. Individual staff profiles can be

browsed at: <http://hub.salford.ac.uk/bicome/people/current-members-2/> The University's Research & Innovation office has a good track-record in attracting FP7 funds and members of the team provide excellent assistance during the preparation of applications. The current call can be found at: <http://ec.europa.eu/research/mariecurieactions/> and applicants can either be Europeans applying for Intra-European (IEF) or International Outgoing (IOF) Fellowships, or non-Europeans applying for International Incoming Fellowships (IIF). Interested prospective applicants of appropriate career stage, and with adequate publication record, are welcome to identify potential mentors and discuss research ideas. Deadline for the Marie Curie fellowship scheme is August 14th, but given the administrative workload, it is desirable to have a complete draft by the end of July. Thus, we encourage prospective applicants to start liaising with their chosen mentors around April/May.

Dr. Stefano Mariani Reader in Wildlife Biology | School of Environment & Life Sciences Room 316, Peel Building, University of Salford, Salford M5 4WT, UK t: +44 (0)161-295-6913 | m: +44 (0)7712-689-871 s.mariani@salford.ac.uk | www.salford.ac.uk/environment-life-sciences <http://hub.salford.ac.uk/bicome/2013/01/22/stefano-mariani/> Researcher.ID: A-2964-2012

S.Mariani@salford.ac.uk

USaoPaulo Brazil MarineEvolution InternshipAppl

Call of proposals: Research internship for the use of scientific resources at the Centre for Marine Biology (CEBIMar / USP).

CEBIMar carries out evolutionary research under ecological and taxonomical approaches. The Centre has conditions to support sampling, DNA analysis, and different methods of microscopy that may be useful for evolutionary studies (phylogenies, phylogeographic and biogeographic analyses, etc.).

Objectives: Stimulate collaborative work with CEBIMar faculty and associated post-docs through short-term internships, during which visiting graduate students and post-docs will access scientific resources based at the CEBIMar. Examples are (i) biological and environmental databases, including time-series, (ii) observations and in-situ experiments within the SÃ£o Se-

bastiÃ£o marine protected area, which comprise nearly pristine rocky coastlines and sandy beaches, (iii) biological collections, and (iv) printed and digital materials of more local or regional interest, including scientific literature and image banks.

Interested students and post-docs are encouraged to contact resident faculty for more information on this internship program (www.usp.br/cbm). Applications that do not foresee any direct collaboration with local academics are also accepted.

Elegibility: Graduate students and post-docs from Brazilian and foreign research centers, with demonstrated interests in Marine Biology. Five proposals will be selected.

Funding: This is an initiative of the Research Provost Office of the University of SÃ£o Paulo. Individual grants should be used for travelling and maintenance expenses for either short (3 months) or long (5 months) internships, summing up to R\$ 10.000,00 (ca. US\$ 5,000) and R\$ 16.000,00 (ca. US\$ 8.000), respectively.

Deadlines: - April 22nd, 2013: Proposal submission using the Atena platform: <https://uspdigital.usp.br/atenata/atnPrpAcesso.jsp?codmnu=3467> - May 10th, 2013: Evaluation of submitted proposals - May 15th, 2013.: Publication of results - June 1st to November 30th: Execution of the project - December 16th: Submission of report*.

*The CEBIMar should be considered as second affiliation in all publications resulting from this program.

Submission: Use a font size compatible to Times New Roman 12 and double-spaced paragraphs to include the following: (a) Title page, with applicant's name and address (1 page); (b) Plan of activities (2 pages); (c) Why you considered this USP program and why is your proposal feasible (1 page); (d) Timeline of activities; (e) Expected results; (f) References.

More information: guca@usp.br

Antonio C. Marques, Assoc. Prof. Depto Zoologia, Inst. Biociencias Universidade de Sao Paulo Rua Matao, Trav. 14, 101, 05508-900, Sao Paulo, Brazil Phone: (55 11) 30917530 Fax: (55 11) 30917802 Curriculum Vitae < <http://lattes.cnpq.br/7691467467042656> >

Antonio Carlos Marques <marques@ib.usp.br>

Bryan Stephen McLean <mclean@unm.edu>

Web-based comparative phylogenetics

EvolDir members,

Does anyone have experience with web-based comparative phylogenetics programs? If so, which one(s) would you recommend?

Alternatively, I am curious which software programs for comparative phylogenetics you may have found to be the most user-friendly?

I ask because we are hoping to develop an educational module, targeted at undergraduates, that will include both tree-building and analysis of trait evolution.

Please respond to me directly (mclean@unm.edu).

Thanks- -Bryan

Bryan McLean Department of Biology and Museum of Southwestern Biology MSC03-2020 University of New Mexico Albuquerque, NM 87131

r8s problem

Dear Members,

Has anybody had difficulty executing Sanderson's r8s v.1.8 through Terminal on Mac OS 10.8?

For Example:

```
MacBook-Pro:ra8s home$ ./r8s -v dyld: Library not loaded: /usr/local/gfortran/lib/libgfortran.3.dylib
Referenced from: /Users/home/ra8s/./r8s Reason: image not found
Trace/BPT trap: 5 MacBook-Pro:
```

Any advice welcome.

Kindly,

Michael McLeish Plant Geography Lab Xishuangbanna Tropical Botanical Gardens Chinese Academy of Sciences Menglun, Mengla, Yunnan Province 666303 P. R. China. Telephone: TBA Email: michaelm@xtbg.org.cn michaelm <michaelm@xtbg.org.cn>

PostDocs

CambridgeU EvolutionaryEcology	85	Oslo EvolutoinaryEcol	92
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CornellU HumanPopulationGenomics	86	RutgersU EvolutionaryGenomics	94
DurhamU PopulationGenomics	87	Smithsonian IndonesianBiodiversity	94
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INIA Madrid TreeEvolutionaryGenomics	87	StockholmU 3 BioinformaticsButterflies	96
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NHM London AnnelidComparativeVenomes	91	UBern FloralEvolution	99
OccidentalCollege NextGenPhylogenomics	91	UCaliforniaDavis MarineEvolutionaryGenetics ...	100
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CambridgeU EvolutionaryEcology

POST-DOCTORAL RESEARCH ASSOCIATE IN EVOLUTIONARY ECOLOGY

A post-doctoral research associate position, funded by the ERC, is available to work with Dr Rebecca Kilner in the Department of Zoology at the University of Cambridge.

The post-doc will work on a project investigating whether parental care can drive evolutionary change. Variation in the extent of parental care received during development induces considerable phenotypic variation in subsequent adult life. The aim of this project is to determine whether selection can act on such developmentally induced plasticity and thereby cause evolutionary change. We shall focus on burying beetles *Nicrophorus* spp as our model experimental system because we know from previous work that parent beetles establish developmental conditions for their offspring that have a profound effect on morphological, behavioural and social traits subsequently shown in adulthood. The successful candidate will divide their time between running large-scale experiments in the lab (including selection experiments) at the Department of Zoology and carrying out fieldwork at sites around Cambridgeshire.

We are seeking a highly motivated, enthusiastic researcher with a PhD in evolutionary ecology, behavioural ecology, entomology or closely related subjects.

Previous post-doctoral experience would be an advantage, as would work with insects or selection experiments. A driving licence is essential.

The post is available for four years in the first instance, with a probable start date of 1 June 2013. The starting salary is £27,854 - £36,298 per annum. The post

is currently advertised on the website of the Zoology, Cambridge website (www.zoo.cam.ac.uk under 'job opportunities') where further information about the position can be found, as well as details about how to apply.

Informal enquiries are welcomed and should be sent to Rebecca Kilner at

rmk1002@cam.ac.uk

CityUNewYork EvolutionaryBiol

Job Title: Research Associate (Post-Doctoral Fellow)
- Biology Job ID: 7746 Location: Brooklyn College, CUNY

Under the mentorship and guidance of the Associate Professor of Evolutionary Biology (Principal Investigator), the Research Associate will carry out independent and collaborative research, and train and supervise student researchers.

The Research Associate will:

- Develop plans, collect and analyze data based on projects prepared together with the Principal Investigator.
- Prepare reports of completed projects for publication in scientific journals, academic presentations or for further applied or theoretical research activities.
- Ensure the efficient functioning of the laboratory areas using various experimental techniques.
- Provide administrative and laboratory support to the Principal Investigator including, but not limited to: managing laboratory budgets and ordering supplies.
- Train and supervise undergraduate and graduate researchers.

Qualifications: - Ph. D in Evolutionary Biology, with a minimum of 3 years of laboratory experience - Experience with genomic/bioinformatics research methods,

including both wet lab and computer work - Field experience in marine evolutionary ecology and/or experience with the husbandry of marine animals - Outstanding communication and writing skills - Laboratory management experience a plus - Preference will be given to candidates with record of innovative project contributions including peer-reviewed publications and grant funding.

Closing Date: April 24, 2013

For complete job description and application instructions please see our employment page at:

<http://www.brooklyn.cuny.edu/adminjobs> and click on Job ID 7746.

Brooklyn College is an AA/EO/IRCA/ADA Employer.

Jennifer Tsui <JTsui@brooklyn.cuny.edu>

ColumbiaU 2 PopulationGenetics

POSTDOCS IN POPULATION GENETICS, COLUMBIA UNIVERSITY

Two postdoctoral positions in population genetics are available in Molly Przeworski's group at Columbia University, as of fall 2013.

Research in the group focuses on understanding recombination in humans and other species, and on modeling and detecting the footprints of natural selection in genetic variation data. The specific postdoctoral project is flexible. For more information about the group, see <http://przeworski.uchicago.edu/wordpress/>

The lab will be located in the Biology department on the main (Morningside Heights) campus of Columbia University, contiguous to groups run by Harmen Bussmaker, Dana Pe'er and Guy Sella. Thus, it will benefit from ties with other researchers in population and statistical genetics, as well as with the large biomedical communities at Columbia and neighboring NY institutions.

Postdoctoral fellows at Columbia have access to nice, subsidized housing within walking distance of campus.

Applicants for the position must have a quantitative background or have extensive experience with genomic data analysis, as well a sincere interest in genetics and evolution. Programming skills are essential. Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of rec-

ommendation) should be emailed to Molly Przeworski at <mfp@uchicago.edu>.

Molly Przeworski Dept. of Human Genetics Dept. of Ecology and Evolution University of Chicago

As of fall 2013 Dept. of Biology Columbia University

molly.przew@gmail.com

CornellU HumanPopulationGenomics

Postdoctoral position in human population genomics at Cornell University

A postdoctoral position is available with Alon Keinan in the Department of Biological Statistics and Computational Biology and the Center for Comparative and Population Genomics at Cornell University. Research areas of the lab include human population genomics and evolutionary history, method development for analysis of next-generation sequencing data, natural selection detection and characterization, and method development for and analysis of genome-wide association studies. Research projects will be aligned with the interests of the successful candidate.

The ideal candidate will have a strong track record in population genomics, quantitative genetics, or human genetics, as well as strong programming and statistical skills, with a Ph.D. in statistics, computer science, mathematics, genetics, or a related field. The starting date is flexible and can be as early as July 2013. Applications will be accepted until the position is filled. Competitive salaries commensurate with experience and skills, as well as a generous benefits package will be offered.

More information about the position can be found at http://keinanlab.cb.bs.cornell.edu/-Postdoc_position_Keinan.pdf Interested applicants should send a PDF with CV, a brief description of research interests and experience, and contact information for three references to Ms. Sue Bishop, administrative assistant (skp5@cornell.edu), indicating "position 205" in the subject line. Informal inquiries are welcome.

==Alon Keinan, PhD Robert N. Noyce Assistant Professor in Life Science and Technology Department of Biological Statistics & Computational Biology 102C Weill Hall | Cornell University |

Ithaca, NY 14853 ak735@cornell.edu | <http://keimanlab.cb.bscb.cornell.edu/> alon.keinan@gmail.com

To apply please send your c.v., a cover letter, and have three letters of reference sent to Rus Hoelzel (a.r.hoelzel@dur.ac.uk) by 13 May 2013.

“HOELZEL A.R.” <a.r.hoelzel@durham.ac.uk>

DurhamU PopulationGenomics

Post-Doctoral Research Associate position in Population Genomics

Our NERC-funded project involves the population genomic analysis of two congeneric deep sea fish species in the genus *Coryphaenoides*, and the phylogenetic assessment of 50-60 species within the genus. An expected ~5000 SNPs will be developed by RADtag sequencing of approximately 400 samples for analysis at the population level for the two focal species, one found in deep demersal habitat, and the other in the abyss. Putative functional loci will be identified to investigate the role of adaptation to depth and associated habitat characteristics both within and among species within the genus. Whole genome sequence data will be generated for reference and further bioinformatics investigation, and the available data used to identify population structure for both neutral and putative functional loci. The PDRA will undertake these bioinformatics and statistical analyses using appropriate software, and identify candidate loci (both neutral and evidently under natural selection) for analysis by phylogenetic methods. The duration of the appointment will be for 3 years.

The PDRA will have experience with next generation sequencing methodologies associated with sample preparation for RADtag sequencing, and with appropriate software including the Geneious DNA sequence analysis package, genomic assembly software (e.g. BWA, Velvet, etc), genome analysis software (e.g. Samtools), script writing (preferably in Perl), and a general understanding of bio-informatics associated with the analysis of second generation DNA sequence data. The PDRA will also need skills associated with the use of population genetics and phylogenetic software packages when applied to large datasets, and with labwork associated with DNA amplification and Sanger sequencing.

A PhD in a related field is required, and relevant post-doctoral experience and publications highly desirable.

The project is a collaboration between the Molecular Ecology Group in Durham and the Centre for Genomic Research in Liverpool, and work will begin on 29 July 2013. The Post-doc will be based in Durham (UK).

Grenoble France ComputationalStatPopGen

A postdoctoral position in statistical population genetics is available in Grenoble (France). The postdoc will work in the French national institute for research in computer science (INRIA) under the supervision of Florence Forbes and Michael Blum. The collaboration between the two supervisors is devoted to the development of statistical and machine-learning algorithms that are needed to analyze large-scale biological data. As part of this research effort, the objective of the project will be to develop statistical methods that can scale with the massive dimension of population genomic data. The project pertains to the detection of genomic regions involved in biological adaptation.

More information can be found on the INRIA website at <http://goo.gl/KLRNW> Candidates should apply online before March 27

Michael Blum CNRS Research Associate
michael.blum@imag.fr

INIA Madrid TreeEvolutionaryGenomics

The Population Genetics and Evolution (PGE) Group at the INIA Forest Research Centre in Madrid, Spain, would like to advertise a postdoc position (17 months) on evolutionary genomics and bioinformatics of tropical trees. Foreseen start date is the 1st of June 2013.

The position is linked to the project CGL2012-40129-C02-02/ AFFLORA: Demographic history and adaptation in tropical trees (2013-2015) funded by the Spanish National R+D+i plan.

The successful candidate should have experience in experimental design and use of Next Generation Sequencing data for population genomics. Additional assets are

expertise in population or adaptation genetics of trees and in tropical ecology. Proficiency in English is essential, the knowledge of French and Spanish are desirable. The successful candidate will design and carry out RADSeq or genotyping-by-sequencing in several species of the genus *Symphonia* (Clusiaceae) and elucidate the evolutionary history of the genus combining ecological and genomic data. There will be opportunity to carry out fieldwork in tropical Africa and/or Madagascar.

The PGE group at INIA-CIFOR is composed of four researchers (Santiago C. González-Martínez, Juan José Robledo Arancio, Ricardo Alía and José Climent), two “Ramón y Cajal” fellows (Delphine Grivet and Myriam Heurtz), two postdocs, five PhD students and two technicians. Our expertise is in population and quantitative genetics, evolutionary ecology and population dynamics of plants, mostly forest trees. Our main study organisms are Mediterranean conifers and some tropical trees. We examine the demographic, reproductive and genetic processes that influence adaptation to changing environments of forest species, including biogeographic approaches and applications for management and conservation of forest genetic resources. We develop studies on gene flow, local adaptation, plasticity and phenotypic integration and on the molecular basis of adaptation, as well as new statistical methods.

INIA Forest Research Centre: <http://www.inia.es/-IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR-CGL2012-40129-C02-02/> AFFLORA: <http://wwwsp.inia.es/Investigacion/centros/CIFOR/-departamentos/ecofor/PyC/Documents/CGL2012-40129-C02-02%20AFFLORA.pdf> For further information, please contact Myriam Heurtz: heurtz.myriam@inia.es; heurtzm@gmail.com, <https://sites.google.com/site/myriamheurtz/> –

Myriam Heurtz Ramón y Cajal Research Fellow INIA. Forest Research Centre Dept. Forest Ecology and Genetics carretera de la Coruña km 7.5 E-28040 Madrid Tel: ++34 91 347 87 62

Scientific collaborator of Université Libre de Bruxelles Evolutionary Biology and Ecology, cp160/12 av. F.D. Roosevelt 50 B-1050 Bruxelles, Belgium email: mheurtz@ulb.ac.be

<http://sites.google.com/site/myriamheurtz/> Plant Ecology and Evolution: <http://www.plecevo.eu/> Myriam Heurtz <heurtzm@gmail.com>

INRA Paris GWAS Drought Maize

Genome Wide Association Study of drought tolerance in Maize using high throughput phenotyping and genotyping technologies Postdoctoral position is to fill as soon as possible (ideally in may 2013) for a minimum of two years at the Plant Genetics Moulon Lab (<http://moulon.inra.fr>) in the “Quantitative Genetics and Breeding Methods” groups in the framework of the european research project “Drops”. Plant Genetics Moulon Lab conducts research on the determinism of complex traits and valorization of genetic diversity in plants. It is located in Paris suburb’s (South of Paris 30 km) in an exceptional scientific environment.

> Background: The maize genetic resources, as for most crops, remain largely underexploited in modern breeding programs because it is very hard and time-consuming to identify in the genetic resources collections the favorable alleles for agronomic traits of interest. Moreover, genetic determinism of traits relevant to address global change climate issues, as drought tolerance, is generally hard to decipher because these traits arise from complex interaction between genotype and environment across the plant life cycle. Combining high throughput genotyping and phenotyping technologies in the framework of association mapping could overcome these problems and make it possible to identify favorable alleles for drought tolerance within genetic resources.

> Aims of the project: The aim of the project is to perform association mapping on a diversity panel of maize inbred lines to decipher drought traits genetic determinisms combining high throughput genotyping data with phenotyping data originated from both field network and high throughput phenotyping platform (bioweb.supagro.inra.fr/phenoarch)

> Scientific program: The Postdoc will be in charge of managing, checking quality, comparing and assembling high throughput genotyping data (>100 000 SNPs) of inbred lines from association panels originating from different technologies (Infinium, Affymetrix, Genotyping By Sequencing). Using these different sets of markers, the selected candidate will analyze the diversity of this panel, notably similarity between inbred lines, cryptic population structure, linkage disequilibrium, and possibly conduct neutrality tests. He will perform association test on “cases study traits” using differ-

ent models and softwares (evolution of scripts developed by the laboratory, software developed by WUR-Biometris partner, external softwares). He will compare results to determine, in close interaction with WUR-Biometris and LEPSE partner, the statistical models and methods best suited to perform association mapping in this panel. The selected candidate is expected to be the leader of publication projects on these issues. He will also be in charge of furnishing to other partners checked set of markers, elaborated data (Structure, Kinship), and procedures needed to perform association mapping on complex drought traits (ecophysiological parameters, GxE interactions) measured on a high throughput phenotyping platform at LEPSE (bioweb.supagro.inra.fr/phenoarch) or on a field European network dedicated to drought study. He will be associated to the interpretation and publication of the results. The phenotyping and part of the genotyping data (50k genotyping data) have already been acquired on inbred lines and will be available at the beginning of the Postdoc.

> Skills PhD in genetics and/or in plant breeding. Strong skills in quantitative and population genetics, statistical modeling and R programming. Other programming languages useful to analyze massive genotyping will be greatly appreciated (Perl, Python, C++...). Knowledge in plant breeding and / or genetic resources as well as modeling would be appreciated, along with aptitudes for cooperative work and scientific writing. Salary: ~ 2200-2600euro / months depending on experience including charges for health, unemployment and retirement insurances (~ 300-400euro / month).

> To apply Send to Stéphane Nicolas (snicolas@moulon.inra.fr) and Alain Charcosset (charcos@moulon.inra.fr) a letter summarizing experience and research interests, and a complete curriculum vitae including contact information for three references, if possible

snicolas@moulon.inra.fr

IVIC Venezuela Mycorrhizal Taxonomy

*** Spanish version follows***

*** all replies to lfajardo@ivic.gob.ve ***

Please forward to relevant email lists:

The Ecology Center of the Instituto Venezolano

de Investigaciones Científicas in Caracas, Venezuela (IVIC; <http://www.ivic.gob.ve/ecologia/>) announces the search for a researcher or post-doc to join our Laboratory of Soil Ecology. The ideal candidate will be available as of May, 2013, to work in the lab's arbuscular mycorrhizae group. Candidates must have a doctorate and research experience in arbuscular mycorrhizal symbiosis and taxonomy (Phylum Glomeromycota), and be willing to teach postgraduate-level classes, assume administrative responsibilities, and supervise graduate and undergraduate thesis projects. Experience with the production of inoculants and the ecophysiology of plants inoculated with arbuscular mycorrhizal fungi is particularly welcome, as this post includes coordinating the lab's ongoing production of this biofertilizer for agroecological, teaching, and research applications.

Interested applicants should send a CV and brief letter of intent to Dr. Laurie Fajardo (lfajardo@ivic.gob.ve), prior to April 15, 2013.

*** favor enviar respuestas únicamente a lfajardo@ivic.gob.ve ***

Favor difundir por las listas relevantes:

El Centro de Ecología del Instituto Venezolano de Investigaciones Científicas en Caracas, Venezuela (IVIC; <http://www.ivic.gob.ve/ecologia/>) inicia el proceso de selección para el ingreso de un investigador o posdoctorante al Laboratorio de Ecología de Suelos. El candidato ideal debe estar disponible a partir de mayo de 2013 para trabajar en el grupo de micorrizas arbusculares de dicho laboratorio. Los candidatos deben poseer un doctorado y contar con experiencia de investigación en el estudio de la asociación micorrizica arbuscular y la taxonomía de los hongos que la conforman (Phylum Glomeromycota). Además la persona seleccionada debe estar dispuesta a participar como docente en el postgrado de Ecología y en actividades administrativas, y dirigir tesis de pre y postgrado. Esta particularmente bienvenida experiencia en el estudio de la ecofisiología de plantas micorrizadas y en la producción de inoculantes micorrizicos, ya que el candidato seleccionado coordinará la producción de este biofertilizante que actualmente lleva a cabo el Lab. para aplicaciones agroecológicas, académicas y de investigación.

Los interesados deberán remitir su curriculum vitae y una breve exposición de motivos a la Dra. Laurie Fajardo (lfajardo@ivic.gob.ve), antes del 15 de abril de 2013.

Kathryn M. Rodriguez-Clark, Ph.D. Investigadora/Researcher Laboratorio de Ecología y Genética de Poblaciones, Centro de Ecología Instituto Vene-

zolano de Investigaciones Cientificas (IVIC) Apartado
20632 Caracas 1020-A, Venezuela

Tel: +58-212-504-1889 Fax: +58-212-504-1617

alt. email: kmrc@ivic.gob.ve

Los acentos graficos han sido voluntariamente omitidos
para evitar problemas con algunos clientes de correo
electronico. Perdonen los inconvenientes que por ello
puedan haberse generado.

kmrodriguezclark@gmail.com

Leiden Manchester Microbial Evolution

Postdoctoral Research Associate, Microbial Evolution
University of Leiden, The Netherlands and University
of Manchester, UK

This BBSRC funded project, run jointly by Leiden
University (Dr. Daniel Rozen) and the University of
Manchester (Prof Ian Roberts), will study the evolu-
tion and ecology of bacteriocins and interference com-
petition in *Streptococcus pneumoniae*. Using multidis-
ciplinary approaches, the project aims to understand
the role of bacteriocins in generating and maintaining
bacterial diversity and influencing pneumococcal pop-
ulation dynamics.

The appointed postdoc will be responsible for designing
and carrying out experiments using bacteria, carrying
out next-generation sequencing of bacterial genomes,
analyzing experimental and bioinformatic data, prepar-
ing manuscripts, and helping with the supervision of
students. You should hold a PhD in a relevant bio-
logical discipline and have a strong background in evo-
lutionary biology. Experience in microbial genetics is
desirable.

Informal enquiries Dr Daniel Rozen: Email:
d.e.rozen@biology.leidenuniv.nl

Telephone: +31 (0)71 527 7990

d.e.rozen@biology.leidenuniv.nl

Munich Theoretical Population Genetics

PARMENIDES FELLOWSHIP IN THEORETICAL BIOLOGY - CALL FOR APPLICATIONS

One position as a thematic Parmenides fellowship is
open in the Parmenides Center for the Conceptual
Foundations of Science (Munich, Germany) under the
supervision of Prof. Eörs Szathmáry. Successful can-
didates will carry out their own research agenda in the
field described below. The position is for a minimum of
1 year to a maximum of 3 years. Successful applicants
will receive a stipend of 2500 EUR per month (net). The
proposed project may start as soon as a suitable can-
didate is identified, but not later than the 15th April,
2013.

Theoretical and experimental approaches to Insight
problems: Insight problems constitute an important
area of psychological research. Progress is expected
from the theoretical and experimental application of
the concepts and methods of Darwinian neurodynam-
ics.

We seek applicants with experience in theoretical bi-
ology and experimentation with animals and humans.
Knowledge of population genetics, connectionist mod-
els and biolinguistics is welcome. Furthermore, candi-
dates should have a Ph.D. and a record in publishing in
international scholarly journals and fluency in English.

Candidates interested in this position should submit
an application consisting of a CV with full list of pub-
lications, a motivation letter (1 page) and a proposed
workplan (max 5 pages).

The deadline for applications is 5th April, 2013. Appli-
cations should be sent by email to Eörs Szathmáry, sza-
thmary.eors@gmail.com. Applications not fitting the
call will be ignored.

Carsten Freitag Projektmanagement Par-
menides Stiftung Kirchplatz 1 82049 Pullach Tel
+49.89.4520935.0 Fax +49.89.4520935.31 Mobil
+49.173.5403274 carsten.freitaeger@parmenides-
foundation.org

Carsten Freitag <carsten.freitaeger@parmenides-
foundation.org>

NHM London AnnelidComparativeVenomes

Postdoctoral Research AssistantXComparative Venomics of Polychaete Annelids

We are excited to announce that a three year fixed-term position has opened for a Post-Doctoral Research Assistant in the Natural History Museum (London) to do research in the field of venomics. The candidate will be expected to spearhead the day-to-day activities in a research project that aims to characterize the composition, bioactivities, and evolution of polychaete venoms. Putative venom peptides and proteins will be profiled for several polychaete species with both transcriptomic and proteomic techniques, and the bioactivities of selected venom toxins will be assayed. Together these analyses will provide insights into the biology and evolution of polychaete venoms, and may lead to the identification of venom toxins that could be promising for applied uses. The successful candidate will be involved in all aspects of the research, including procurement of specimens in the field, data production and analysis, and communication of the results in both written and spoken formats.

Application deadline is 17 March 2013. For more details and information on how to apply for this position please visit <http://www.nhm.ac.uk/about-us/jobs-volunteering-internships/index.html> For informal enquiries please contact Dr Ronald Jenner, Department of Life Sciences, Natural History Museum, Cromwell Road, London SW7 5BD, UK. Email: r.jenner@nhm.ac.uk

Dr Ronald A. Jenner Department of Life Sciences The Natural History Museum Cromwell Road London SW7 5BD United Kingdom

Tel. +44 207 942 6885 (office) / 5774 (lab) Fax. +44 207 942 5054 www.nhm.ac.uk/research-curation/-staff-directory/zoology/r-jenner/ Ronald Jenner <r.jenner@nhm.ac.uk>

OccidentalCollege
NextGenPhylogenomics

The McCormack Lab at the Moore Laboratory of Zoology, a research unit affiliated with the Biology Department at Occidental College, is seeking a POST-DOCTORAL RESEARCHER for a 3-year NSF-funded project to conduct a large-scale comparative phylogeography of birds and reptiles in one of the world's biodiversity hotspots, the Mexican pine-oak forests. Population level data will be collected using target enrichment (sequence capture) and high-throughput sequencing of hundreds to thousands of molecular markers to explore biogeographic hypotheses for divergence among the major mountain ranges of Mexico.

The applicant should have a Ph.D., several years' experience working with DNA in a molecular lab, familiarity with next-generation sequencing, computational skills for data processing and management, a keen knowledge of phylogenetic and population-genetic analyses, and the ability to write lead-author manuscripts. Most samples are already collected, but there is a possibility to participate in further field work in Mexico. Duties shared with a laboratory technician include training and coordinating the activities of undergraduates. The applicant should have good leadership, organizational, and interpersonal skills. The position is funded for up to three years and will involve collaboration with a team of researchers at UCLA, the Burke Museum at the University of Washington, and Universidad Autonoma de Nuevo Leon, Mexico. Salary begins at \$40,000/year (or more depending on experience) plus benefits, with yearly cost-of-living raises. The ideal start date is spring/summer 2013.

The Moore Laboratory of Zoology is a world-renowned natural history collection featuring the largest Mexican bird collection in the world and over 62,000 bird and mammal specimens. The MLZ has close ties to nearby institutions such as the Jet Propulsion Lab, Cal Tech, the Claremont Colleges, USC, UCLA, Huntington Gardens, and the L.A. Natural History Museum. Occidental College is a small liberal arts college located in the culturally-rich Los Angeles neighborhood of Eagle Rock near Pasadena. Occidental is well-situated close to many outdoor recreational activities: the ocean, mountains, and desert can all be reached in 45 minutes or less. The neighborhood surrounding Occidental College is family friendly, very walkable, and home to a wealth of urban amenities including restaurants, coffee shops, and art galleries, with nearby major cultural attractions such as the La Brea Tar Pits, L.A. County Museum of Art, Walt Disney Concert Hall, etc.

Please send an e-mail with subject heading "MLZ Post-doc Position" expressing (i) your interest, (ii) your qualifications, and (iii) contact information for two references, and attach a CV. Send to JOHN MCCOR-

MACK, Director of the MLZ, at mccormack@oxy.edu. Applications will be accepted from now until the position is filled.

mccormack@oxy.edu

OhioStateU Coevolution

Post-doctoral position: Co-evolution among Soybean and its Pathogens and Pests

We seek a postdoctoral researcher to join an interdisciplinary project studying various co-evolutionary aspects of soybean and its pests and pathogens, including genetic, metabolomic, biochemical and function interactions. Our research efforts are focused on identifying the causal genes that contribute to expression of resistance to many of the pests (pathogens and insects), and retain or improve yield and soybean quality. In the long-term, understanding these foundational and basic interactions in an evolutionary framework will lead to enhanced crop production.

We seek applicants with an interest and experience in plant-pest/pathogen co-evolutionary interactions using a range of techniques from quantitative and molecular genetics, genomics, metabolomics, transcriptomics, network analysis, and/or bioinformatics. Skills related to genome assembly and annotation, RNA-Sequencing, functional analysis of candidate genes, metabolomic pathway development or other molecular biology techniques are a plus. The position is purely interdisciplinary, collaborating with faculty in Horticulture and Crop Science, Plant Pathology and Entomology. This position is a full-time, term appointment for an initial period of one year, and can be extended based on funding and performance. Travel between the Wooster (Ohio Agricultural Research and Development Center) and Columbus campuses of Ohio State will be needed.

This postdoctoral position will be a member of the Center for Applied Plant Sciences (CAPS; <https://caps.osu.edu/>). For specific information about the research and opportunity, contact Anne Dorrance (dorrance.1@osu.edu), Chris Taylor (taylor.1886@osu.edu), Andrew Michel (michel.70@osu.edu), or Leah McHale (mchale.21@osu.edu). Interested applicants should send 1) a letter of interest, 2) a single PDF document containing the applicant's CV and contact information for three professional references, 3) reprint(s) of relevant authored publications to dorrance.1@osu.edu. Review of applications will begin on March 31, 2013 and

continue until a satisfactory candidate is found.

michel.70@osu.edu

Oslo EvolutoinaryEcol

CEES - Department of Biosciences

Postdoctoral research fellow in evolutionary ecology

A 2-year position as postdoctoral research fellow in evolutionary ecology is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences.

The Post Doctoral fellow will be part of the project "Hydropower and connectivity in inland rivers (RIVERCONN)" funded by the Norwegian Research Council as part of the MiljÅ2015 Program. The project is a collaboration effort, lead by the Norwegian Institute for Nature Research at Lillehammer. Within the framework of the position duties may be assigned. No one can be appointed for more than one specified period at the same institution.

Project description

The primary objective of RIVERCONN is to increase our knowledge on the ecological and evolutionary consequences of loss of connectivity in inland river systems, and to assess when and under which conditions loss of connectivity in river systems are a) critical, b) significant but not critical, or c) of minor importance for ecosystem functionality and preserving life history variation of migratory fish species. Study species are brown trout and grayling. Both species are of great economic and societal interest in Norway. We will use a combination of ecological (analysis of population composition using length and age data; movement using telemetry and mark - recapture data) and population genetic methods (microsatellites and SNPs) to answer our research questions. The project is a large collaborative effort, involving students and researchers from many institutions. A large amount of genetic and ecological data has already been collected.

Qualifications

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

tials.

The applicant must have a PhD or other corresponding education equivalent to a Norwegian doctoral degree in fisheries biology or a similar field, with a focus on population genetics. The announced position involves organizing the genotyping and the subsequent analysis of the data for a large number of carefully chosen individuals of trout and grayling from two large river systems (Glomma and GudbrandsdalsÅgen). Further, participation in fieldwork (e.g. habitat mapping, fish sampling) and regular visits to the Norwegian Institute for Nature Research at Lillehammer are expected.

A solid background in population genetics and fish ecology, and excellent knowledge of relevant software, is required. Applicants must possess sound knowledge of different modeling approaches in fisheries biology and should have a successful track record of applying these skills to fish populations. The candidate is expected to take the lead in the publication process. An interest in both fundamental and applied research and ability to communicate and work in a multidisciplinary team are essential.

The main purpose of post-doctoral research fellowships is to qualify researchers for work in top academic positions within their disciplines.

Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions: <https://www.uio.no/english/about/regulations/personnel/academic/guidelines-appointment-postdoc-researcher.html> Language: A very good command of English is required - www.mn.uio.no/english/research/doctoral-degree-and-career/regulations/proficiency-requirements.html Salary (applicable for the University of Oslo): Position code 1352, pay grade: 57-65 (NOK 468 400 - 542 900 per year, depending on qualifications)

The application must include:

Application letter including a statement of interest, briefly summarizing your scientific work and interests and describing how you fit the description of the person we seek

CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity)

Copies of educational certificates, transcript of records, letters of recommendation

A complete list of publications and unpublished works, and up to 5 academic work that applicant wishes to be considered by the evaluation committee

Names and contact details of 2-3 references (name, re-

lation to candidate, e-mail and telephone number)

The position is available from May 1, 2013 (given funding from the RCN).

Foreign applicants are advised to attach an explanation of their University's grading system. Please remember that all documents should be in English or a Scandinavian

— / —

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>

QueenMaryU London EvolutionaryBiol

Marie Curie Fellowship Opportunities (and support in preparing cases)

School of Biological and Chemical Sciences at Queen Mary, University of London invites postdocs wishing to be sponsored for MC fellowship applications to contact us. We have helped several postdocs to draft successful applications in previous rounds.

Information about Queen Mary can be found here: <http://www.qmul.ac.uk/about/index.html>

Candidates can undertake research in any of the active areas of research within SBSCS, and we are also happy to consider other topics proposed by applicants.

If you are interested

1) Please contact the relevant member of staff listed on these research pages <http://www.sbcs.qmul.ac.uk/-research/16201.html> and

2) Copy your message to sbcs-research@qmul.ac.uk

A digest of possible topics in evolutionary biology (remember you can suggest your own)

Evolutionary and organismal biology The statistical analysis of spatial genetic data Hybridisation and hybrid zones The neurobiological basis of drug dependence Plant cytogenetics and genome evolution Comparative physiology and evolution of neuropeptide signalling systems Neurobiology, neuropathology and evolution of endocannabinoid signalling Evolutionary changes in arthropod neurogenesis Bioinformatics for genomics of emerging model organisms Evolutionary

genetics and genomics of mammals Evolutionary genomics of insect societies

Ecology and behavioural biology: Understanding social behaviour - a genomic approach How fast should colour vision be? An electrophysiological study of the early visual system Communication, cognition and welfare in mammals Social learning across species boundaries Methane-subsidised production in fast flowing rivers: a novel mechanism of carbon and energy flux Marine and estuarine ecology Automated analyses of full behavioural repertoires by motion capture and clustering algorithms Artificial neuronal networks for multi-tasking in bee cognition and behaviour Multi-electrode recordings from the bee brains to explore the neuronal ensemble code for visual cognitive tasks

r.a.nichols@qmul.ac.uk

RiceU EvolutionaryBiology

HUXLEY FELLOW in ECOLOGY & EVOLUTION: The Ecology and Evolutionary Biology department of Rice University (<http://eeb.rice.edu/>) seeks to fill a Huxley Fellow position in ECOLOGY or EVOLUTION. The position is a two-year appointment with a third year extension possible, with a start date of July 1, 2013. Our prestigious Huxley Fellow Program aims to recruit outstanding researchers with a PhD and postdoctoral experience, who merge excellence in teaching (25%) and research (75%). The Huxley Fellows receive faculty status, employee benefits, competitive salary, and research funds for independent or collaborative research. Collaborative interests with the existing faculty are a plus and applicants are encouraged to identify a potential faculty host within the EEB department. An application (curriculum vitae, statement of research interests and statement of teaching) and three letters of recommendation should be submitted via e-mail to Diane Hatton, rdh@rice.edu. Please write "Huxley Fellow Application" in the subject line. Application review will begin April 12, 2013. For further questions and informal inquiries please contact Dr. Tom Miller (Tom.Miller@rice.edu), Huxley Fellow Search Committee Chair. Rice University is an Equal Opportunity/Affirmative Action Employer and values a diverse faculty. Women and minorities are encouraged to apply.

Diane Hatton <rdh@rice.edu>

RutgersU EvolutionaryGenomics

Postdoctoral position in Evolutionary Genomics at Rutgers University

Seeking qualified applicants for a post-doctoral position with Andrew Kern in the Department of Genetics and the Human Genetics Institute of New Jersey at Rutgers University. There is no particular project associated with either of these positions, however recent work in the lab spans the intersection of machine learning, population genetics, comparative genomics, and evolutionary biology. More information about the Kern lab can be found here (<http://kernlab.rutgers.edu/index.html>). More information about the department can be found here (<http://genetics.rutgers.edu/>). The Kern lab is located on the Busch campus of Rutgers University, in central New Jersey, and is within easy commuting range to New York City.

The ideal candidate would hold a Ph.D. and have a record of research achievement in computational biology, computer science, statistics, or a related field. A background in comparative/population/evolutionary genomics is highly desirable. In addition the candidate should have experience programming in C, a scripting language (Ruby, Python, or Perl is fine), and would ideally be comfortable with cluster computing environments.

Review of applications will begin immediately and continue until the position are filled. The position could begin as early as June, 2013. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualifications and relevant experience to Andrew Kern (kern@biology.rutgers.edu)

Andrew Kern Assistant Professor of Genetics Rutgers University kern@biology.rutgers.edu

Kern@dls.rutgers.edu

Smithsonian IndonesianBiodiversity

Postdoctoral position available - Marine Biodiversity Gradients in Indonesia

A postdoctoral position is available to work on the project “Assembly of Marine Biodiversity Along Geographic and Anthropogenic Stress Gradients”, recently funded through NSF’s PIRE program. For the next five years, this project will be examining marine biodiversity gradients – across longitude, and human impact - in Indonesia, the heart of the coral triangle. The work involves standardized sampling using Autonomous Reef Monitoring Structures (ARMS) to measure marine biodiversity of viruses, archaea, bacteria and eukaryotes.

The postdoctoral position will take a leadership role in developing and carrying out meta-barcoding analyses, involving PCR, library construction for next generation sequencing, and assessments of PCR bias and sampling procedures. The successful candidate will play an active role in data collection, analysis and interpretation and will be the lead author on papers describing findings of the project. This person will also spend 15% of his or her time assisting in project coordination. Travel to partner labs at San Diego State University (Rohwer), UC Los Angeles (Barber), Moss Landing Marine Laboratory (Geller), NOAA’s Pacific Island Fisheries Science Center (Brainard), and the Indonesian Biodiversity Research Center.

Requirements for this position: experience with molecular laboratory techniques including PCR design and trouble-shooting, library construction for next generation sequencing runs; excellent organizational skills; a strong track record in scientific writing.

This is a two-year position, with a possibility for extension, and is located at the Smithsonian National Museum of Natural History. Salary: \$45,000, plus \$8,550 for insurance. Please send brief cover letter, CV and a list of 3-4 references to Allen Collins (CollinsA@si.edu) if interested in this position. Review of candidates will begin March 31, 2013 and the position will be open until filled.

Dr. Allen G. Collins - <http://invertebrates.si.edu/~staff/collins.cfm> COLLINSA@si.edu

South Africa USA joint Evolution Cell Death

Postdoctoral fellowship in programmed cell death evolution, 2013

A 2 year postdoctoral fellowship is available for a self-motivated researcher as part of an international col-

laborative effort between Drs PM Durand and Prof S Sym (University of the Witwatersrand, Johannesburg, SA), Dr GC Pitcher (Fisheries Research and Development, Department of Agriculture, Forestry and Fisheries, Cape Town, SA), Prof RE Michod (University of Arizona, Tucson, USA) and Dr M. Orellana and Prof N. Baliga (Institute for Systems Biology, Seattle, USA).

Since the discovery that programmed cell death (PCD) occurs in the unicellular world, research in this field has focused on the evolutionary origins and mechanisms of the phenomenon. Proposed reasons for PCD in unicells have been controversial and deficiencies in our understanding of the complexities of PCD origins and the associated bio-medical implications have been highlighted. PCD in the unicellular world has several possible explanations, eg as an adaptation at a level other than the unicellular organism or as non-adaptive pleiotropy.

The aim of this project is to examine the evolutionary reasons and mechanisms of PCD in a natural ecosystem. Programmed death and interactions between unicellular organisms in microalgal blooms off the South African coast will be the model system. Our preliminary studies indicate that PCD (i) can play a role in group level benefits, and (ii) can be a form of cooperation through reciprocal benefits in the microbial loop where PCD facilitates nutrient exchange and recycling between unrelated organisms.

In this project, the initiation, execution and effects of PCD in the natural setting of microalgal blooms will be studied. In particular, we are interested in the evolutionary role of PCD in aquatic eco-systems. Why has PCD evolved and been maintained when it is so obviously detrimental to the individual cell? Are there any fitness advantages and what are the triggers and effects of PCD?

References Durand PM et al. How an organism dies affects its neighbors. *American Naturalist*, 2011.

Nedelcu AM et al. On the paradigm of altruistic death in the unicellular world. *Evolution*, 2010.

Youngsteadt, E. Dying Generously. *American Scientist*, 2011.

Application details The successful applicant will be based in the laboratory of Dr PM Durand (University of the Witwatersrand, SA) with opportunities to visit and work in collaborators laboratories. The salary and benefits are commensurate with postdoctoral fellow remuneration in South Africa. Starting date is flexible; however we aim to have the position filled by mid 2013.

The ideal candidate would have expertise in cell

and molecular biology with an interest in evolution, phycoecology, ecology or systems biology. Interested applicants should contact Dr PM Durand (pierre.durand@wits.ac.za) with a cover letter indicating why he / she is suited to this project as well as a CV and details of 3 referees.

Pierre Durand <Pierre.Durand@wits.ac.za>

StockholmU 3 BioinformaticsButterflies

Researcher in Bioinformatics

1 research position at the Department of Zoology, Stockholm University in the group of Dr. Christopher W. Wheat. The position is funded initially for 6 months, and can be extended for several years.

Subject We are seeking a post doc in ecological genomics and proteomics to be active in the research project “Insect life cycle genomics and adaptation in the wild”, with financial support from the Knut & Alice Wallenberg Foundation and the Swedish Research Council. The project is an Ecological and Evolutionary Functional Genomics (EEFG) collaboration, bringing together researchers with expertise in population genetics, ecology, ethology, morphology, immunology and molecular genetics with the aim to attack fundamental biological questions regarding how genes interact to produce a whole organism with a life cycle that is adapted to local environmental conditions. The central idea of the project is to take on these difficult questions by means of an integrative, crossdisciplinary approach, with a close interaction between research on two insect systems: the green-veined white butterfly *Pieris napi* and the fruit fly *Drosophila*. The research group is an internationally recognized leader in butterfly ecological research, with long history of study on *P. napi*. The research collaboration also includes expertise on *Drosophila* as a model system. Our goal is to use genomic tools to study *P. napi* populations adapted to different ecological situations, and when we find genes that are candidates for being involved in such adaptation we will study their effects in the *Drosophila* system. We will initially target three phenotypes: diapause, wing pattern and immunity. We will make use of existing genomics and bioinformatics platforms at e.g. SciLifeLab (www.scilifelab.se) for next generation sequencing, RNA-Seq and other high-throughput services. The advertised position will be focused upon

the analysis of such data, involving direction interaction with the SciLifeLab and other genomic core facilities and bioinformatics centers. The holder of the position will also contribute to other related projects utilizing genomic tools in the department, such as Ekoklim (www.zoologi.su.se/ekoklim).

Specific bioinformatics projects include the sequencing and assembly of the *P. napi* genome, followed by extensive re-sequencing studies, and RNA-Seq (transcriptome assembly, annotation, and quantitative gene expression) analyses. Given the abundance of data to be generated, there will be many opportunities for independent projects. Such work is strongly encouraged as a means of generating independent projects where the postdoc would be able to have a clear primary authorship role.

Qualification requirements A suitable background at least at the masters level in bioinformatics, population genetics, ecological genetics, evolutionary biology or similar subjects, which includes substantial experience in bioinformatics in connection with ecological or evolutionary genomics. Opportunities may arise for this to be extended into a PhD level project, so this should also be considered.

To apply: Candidates should submit a short cover letter, a curriculum vitae including a list of publications and a short (1-2 pages) description of their experience, past research accomplishments and future research ambitions. Applicants should also include names and e-mail addresses of two referees and should specify the date they will be available to start the position. All of this should be provided as a single PDF file, and sent to Chris Wheat (chris.wheat@zoologi.su.se). Review of applications will begin on 8th of April.

Link to Chris Wheat’s website <http://www.christopherwheat.net> <http://www.zoologi.su.se/en/about/staff/person.php?suid=cwhea>

Butterfly ecological and evolutionary functional genomics

1 postdoc position at the Department of Zoology, Stockholm University in the group of Dr. Christopher W. Wheat. The position is funded for 2 years, with the potential to extend another 2 years

Rapid advances in genomic sequencing and bioinformatics now provide the opportunity to find the variation affecting traits that have fitness consequences in the wild. Importantly, these advances allow for species with well studied ecologies to now be the focus of functional genomic study. We have just received extensive

financial support from the Knut & Alice Wallenberg Foundation and the Swedish Research Council, for our project “Insect life cycle genomics and adaptation in the wild”.

The project is an Ecological and Evolutionary Functional Genomics (EEFG) collaboration, bringing together researchers with expertise in population genetics, ecology, ethology, morphology, immunology and

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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>

Tufts LifeCycleEvolution

An NSF funded Postdoctoral Researcher position in life cycle evolution and speciation is available in the laboratory of Erik Dopman in the Department of Biology at Tufts University. The research is a collaborative project with Rick Harrison at Cornell University, and the successful applicant will be part of a larger team at both Cornell and Tufts.

Our work focuses on the evolution of barriers to gene exchange during speciation. Current efforts are to identify the molecular genetic basis for manifold traits contributing to reproductive isolation, to characterize the evolutionary history of these traits, and to evaluate the consequences of barrier loci on gene flow. We are applying a combination of comparative and experimental approaches using the European corn borer moth as a model system.

The European corn borer (ECB) moth is a textbook example of incipient speciation, in which one species splits into two through the evolution of multiple forms of reproductive isolation. Asynchrony in seasonal flight timing of adults, and thus their mating period, contributes disproportionately to speciation between incipient lineages of ECB that are commonly referred to as “Z” and “E” strains. Allochronic isolation stems from differences in the number of generations per season (voltinism), in which bivoltine E-strain populations have one generation at the beginning of the season (June) and a second generation at the end of the season (August), whereas univoltine Z-strain insects have single generation in the middle of the summer (July). Life cycles are determined primarily by genetic changes in

the timing of emergence from dormancy (diapause) in the spring. Because evolutionary change in the timing of dormancy enables animals and plants to adapt to changing seasonal environments, insights into ECB life cycles are relevant to both speciation and response to global climate change.

Relevant papers include:

Dopman, E. B., P. S. Robbins and A. Seaman. 2010. Components of Reproductive Isolation Between North American Pheromone Strains of the European Corn Borer. *Evolution* 64:881-902.

Dopman, E. B., L. Perez, S. Bogdanowicz and R. G. Harrison. 2005. Consequences of reproductive barriers for genealogical discordance in the European corn borer. *PNAS* 102:14706-14711.

Dopman, E. B., S. M. Bogdanowicz and R. G. Harrison. 2004. Genetic mapping of sexual isolation between E and Z pheromone strains of the European corn Borer. *Genetics* 167:301-309.

We seek a creative postdoctoral researcher who will join our group to study the causes and consequences of life cycle evolution. Responsibilities of the successful applicant include providing leadership in one or more areas: high-throughput genomics of diapause, whole-genome population genetics, and manipulative field experiments. The candidate will be expected to work independently, participate in group efforts with collaborators at Cornell, and contribute to the supervision of PhD and undergraduate students. Opportunities for grant-writing will be available, and there is the potential to develop independent projects. See <http://www.tufts.edu/central/research/postdoc/> for more information on postdoctoral scholars at Tufts. A PhD in evolutionary biology, genetics & genomics, or in a related field, is required by the position start date. The successful candidate should have prior experience in processing and analyzing large data sets, molecular evolution, genomics, and programming (e.g., R, Perl, Python).

This is a two-year appointment with possibility of renewal (up to four years). Applications are due by April 15 with review continuing until the position is filled. Start date is flexible but ideally in summer 2013. Interested individuals should contact Erik Dopman (erik.dopman@tufts.edu) and provide a single PDF containing the following: a CV (including date of availability), a 1-2 page statement of prior research, and the names and contact information of three references. Informal inquiries are welcome.

Erik.Dopman@tufts.edu

[/www.phycolab.ua.edu](http://www.phycolab.ua.edu) Ph Office (205) 348-1791 Lab
(205) 348-7383 Postdocs & students (205)-348-5828

jlopez@ua.edu

UAlabama AlgalSystematics

Postdoctoral researcher in algal systematics at The University of Alabama

A 2-year postdoctoral position is available in the laboratory of Juan Lopez-Bautista at The University of Alabama. The successful candidate will participate in a macroalgal molecular systematics project funded by The National Science Foundation. This is a non-tenure track position on a 12-month appointment and renewable based on availability, funding, and performance. The candidate will be involved in the generation, sequencing and analyses of a multigene database. The candidate will also help the PI mentoring graduate and undergraduate students, and managing an active lab working on algal biodiversity, systematics, and genome evolution. The candidate will have the opportunity to develop collaborative research project(s) in the area of algal systematics. Minimum qualifications: 1) A Ph.D. in biology or related field; 2) previous research experience and publication record; and 3) strong interpersonal and writing skills and the ability to work as part of a team.

APPLICATION DEADLINE: 1 May 2013 (or until filled). Position starts August 1st., 2013.

TO APPLY: Apply online at the UA staff job application site: <http://facultyjobs.ua.edu/> The specific job is Requisition # 0806972 (a general postdoc application pool, create a logon ID, and submit documentation). Interested individuals should provide with a cover letter, a CV, a 2-page (maximum) statement of interest including research background and goals, and contact details for three individuals who could provide a confidential letter of recommendation.

Upload all required materials to the site and additionally send the same materials to Juan Lopez-Bautista at jlopez@ua.edu

Info on the University of Alabama can be found here: <http://www.ua.edu/> Lopez-Bautista's lab information can be found here: <http://www.as.ua.edu/-phycolab/> The University of Alabama is an equal opportunity/affirmative action employer.

Juan M. Lopez-Bautista, Associate Professor, The University of Alabama, Department of Biological Sciences 500 Hackberry Lane, Mary Harmon Bryant Hall #309 Tuscaloosa, AL 35487-0345 <http://www.phycolab.ua.edu>

UArizona EvolutionaryGenomics

Postdoctoral position in evolutionary genomics

The University of Arizona Biosphere 2 is seeking a post-doctoral scientist to work on a project investigating evolution and functional genomics of bacteria that are symbionts of heteropterans insects. We are looking for a motivated, enthusiastic, and independent individual with extensive experience in functional genomics and gene expression. The position is for 1 year, renewable depending on funding. Duties and responsibilities include carrying out experiments, contribute to analysis of data and writing of manuscripts and grant proposals, and to the organization and maintenance of laboratory.

To apply go to <https://www.uacareertrack.com/-applicants/jsp/shared/frameset/Frameset.jsp?time=-1363895886968> Judith Becerra Department of Biosphere 2 University of Arizona, Tucson, AZ 85721 Phone (520) 626-5888

“Becerra, Judith X - (jxb)” <jxb@email.arizona.edu>

UBasel SexuallySelectedTraits

Postdoc on 'Genetics of Sexually Selected Traits' at University of Basel, Switzerland

A 2-year postdoc funded by the Swiss National Science Foundation is available in the Scharer Group (<http://evolution.unibas.ch/scharer/>) at the Zoological Institute, University of Basel, Switzerland. The ideal starting date is October 2013 (but both earlier and later are possible).

The research in our group focuses on the evolutionary ecology of reproduction in simultaneous hermaphrodites, using a highly suitable model, the free-living flatworm *Macrostomum lignano*. We integrate a broad array of approaches, including experimental lab work, molecular developmental biology, quantitative genetics, genomics and transcriptomics, field sampling,

molecular phylogenetics and comparative approaches.

The current project aims at quantifying sexual selection on male and female reproductive traits along the pre- to post-copulatory axis, using a state-of-the-art approach that we recently extended to hermaphrodites (see Anthes et al. 2010, *Am Nat*). Using transgenic worms we can track green sperm of GFP-positive donors in their GFP-negative partners in vivo (think 'watching sperm at work') and also perform highly efficient paternity analysis. To experimentally validate the importance of identified traits we can use next-generation-sequencing approaches to identify candidate genes and then manipulate the traits using dose-dependent RNA interference (think 'phenotypic engineering of sexually selected traits')(see Sekii et al. 2013, *Proc Roy Soc B*).

The postdoc will likely focus on quantitative genetics, genetic architecture, and indirect genetic effects of sexually selected traits in this worm, complementing the work of a recently hired PhD student. However, the candidate's interests and backgrounds can have a considerable influence on the scope of the project, with ample room for developing own ideas and approaches.

The successful candidate will be independent, dedicated, creative, and collaborative, and have a strong background in evolutionary biology. Experience with quantitative genetics is a definite plus, and experience in molecular biology is a clear advantage, but not a prerequisite.

The Scharer Group belongs to the Zoological Institute of the University of Basel, a stimulating and international research environment with English as the predominant language (a recent count yielded ~20 nationalities). Our Institute has a strong background in experimental design, statistics, population and quantitative genetics, genomics and molecular biology. So it is a great environment for a young evolutionary biologist and the position comes with a handsome salary.

Basel is the third largest city of Switzerland and attractively situated at the foot of the Jura mountain range. It has the beautiful river Rhine, and directly borders both Germany and France, thus offering rich culinary, cultural, and outdoor possibilities.

To apply, please send a letter of motivation, a CV, a publication list, contact details of 3 referees, and a PDF of your coolest paper to lukas.scharer@unibas.ch (please send an electronic application in a single file in this order). Reviewing of applications will start on April 7, but applications will be considered until the position is filled.

For more details about our research please visit <http://evolution.unibas.ch/scharer/>. Cheers,

Lukas

I am looking at these kinds of worms <http://macrostomorpha.info> and studying these questions <http://evolution.unibas.ch/scharer> PD Dr. Lukas Scharer University of Basel Zoological Institute Evolutionary Biology Vesalgasse 1 4051 Basel Switzerland
Tel: ++41 61 267 03 66 Fax: ++41 61 267 03 62 Email: lukas.scharer@unibas.ch Homepage: <http://evolution.unibas.ch/scharer/index.htm>
lukas.scharer@unibas.ch

UBern FloralEvolution

Postdoctoral Position at the Institute of Plant Sciences, University of Bern, Switzerland on the Molecular Genetics of Floral Organ Morphology in *Petunia*

Project description: The genus *Petunia* comprises closely related species with different pollination syndromes. Our group is interested in the molecular-genetic basis of the evolutionary shift between pollination syndromes. *P. axillaris* has white, elongated flowers and is pollinated by long-tongued nocturnal hawkmoths; hummingbird-pollinated *P. exserta* flowers are bright red with reflexed petals and exerted reproductive organs. The successful applicant will undertake the molecular identification of the gene(s) underlying the major QTL for floral morphology. Techniques include classical and molecular genetics, high-throughput transcriptomics and bioinformatics. In addition, there is the opportunity to perform pollinator choice assays and population genetic studies.

PhD in molecular genetics, quantitative genetics or molecular evolution required. Strong background in bioinformatics is an asset.

Please send a single pdf file including curriculum vitae, copies of diplomas and transcripts, motivation letter and contact details of three references to [anna.brandenburg\(at\)ips.unibe.ch](mailto:anna.brandenburg(at)ips.unibe.ch)

Further inquiries about the position are welcome.

Applications will be accepted until the position is filled.

This is an opportunity to join a small and active research group where individually- and collaboratively-generated research questions will be developed and addressed.

for more information: <http://www.botany.unibe.ch/-deve/research/projects/pollinator.php>

http://www.youtube.com/watch?feature=player_embedded&v=o1BcisZPBqg Anna Brandenburg Institute of Plant Sciences Altenbergrain 21 CH-3013 Berne Switzerland

phone ++ 41 31 631 3766 fax ++ 41 31 631 4942

anna.brandenburg@ips.unibe.ch

UCaliforniaDavis MarineEvolutionaryGenetics

Postdoctoral researcher in marine community ecology and ecological genetics

We are seeking a postdoctoral researcher with demonstrated expertise in marine ecology or population genetics, and with an interest in questions at the interface of these disciplines. The postdoc will work on collaborative project with Jay Stachowicz, Rick Grosberg and Susan Williams that links genetic diversity and trait variation within species to the ecological functioning of seagrass communities. The postdoc would be based on the UC Davis campus but the position would also involve field and/or laboratory work at the Bodega Marine Lab. The postdoc will be encouraged to develop his/her own research project that furthers our understanding of the ecological consequences of genetic diversity in marine systems. More information about the project can be found at: <http://www.eve.ucdavis.edu/stachowicz/-gendiversity.shtml> Starting salary is approximately \$39,000 per year and the position is available for up to 2 years. Interested candidates should send a CV, the names and contact information for three potential references, and a cover letter explaining the candidates interest in the position and overall research aims and accomplishments to <jjstachowicz@ucdavis.edu>. Applications received by April 1 will receive full consideration, but the position is open until filled. The position is available immediately, with a preferred start date sometime during the summer of 2013. Questions about the position should be directed to Jay Stachowicz at the above email address.

Jay Stachowicz <jjstachowicz@ucdavis.edu>

UCalifornia SanFrancisco StatisticalPopGenetics

Postdoctoral Fellowship in Statistical Population Genetics at U.C. San Francisco, San Francisco, CA, USA
A postdoctoral position is available starting between July and December, 2013 in the laboratory of Bryan Greenhouse in the Division of Infectious Diseases at U.C. San Francisco. The current position will focus on development and application of statistical models incorporating parasite genetics and epidemiologic data to characterize transmission and evolution of malaria parasites. The successful candidate will have the opportunity to work closely with a diverse team of scientists at UCSF and international collaborators on projects spanning work in malaria elimination to regions with the highest burden of malaria in the world. The fellow will be encouraged to develop an independent line of work under the co-mentorship of Bryan Greenhouse and Rasmus Nielsen (U.C. Berkeley), including presentation and publication of findings. Our work is directly connected to on-the-ground malaria control and elimination efforts, and the scientific output from this position is expected to directly affect interventions in the field in addition to leading to academic publications. Competitive salary including full benefits will be provided commensurate with experience and qualifications.

Required Skills

- * PhD in a relevant field (e.g. population genetics, statistics, computational biology)
- * Excellent background in population genetics
- * Strong statistical and computational skills, including proven ability to develop and implement statistical methods beyond utilizing existing software packages
- * Demonstrated ability to produce independent, creative work
- * Ability to work well as member of a team
- * Strong written and oral communication skills

Ideal Skills

- * Experience with analysis of pathogen transmission trees / phylogenetic data
- * Experience developing and implementing MCMC methods
- * Experience with geospatial data / visualization

To Apply: Please send a detailed CV including publications, brief statement of research/career interests, and contact information for 3 references to Bryan Greenhouse, MD, MA at bryan.greenhouse@ucsf.edu

“Greenhouse, Bryan” <bgreenhouse@medsfgh.ucsf.edu>

UCollegeLondon StatisticalGenomics

Research Associate in Statistical Genomics and Phylogeography in University College London -

UCL Department / Division: Genetics, Evolution & Environment Grade: 7 Hours: Full Time Salary: Grade 7, UK32,055 - 38,744 per annum including London allowance

Duties and Responsibilities

A postdoctoral researcher position is available in the group of Professor Ziheng Yang FRS in University College London to work on statistical genomics and phylogeography. The project aims to develop statistical methods and computer software for analysing genomic sequence data from closely related species. This is at the interface of phylogenetics and population genetics, as one has to deal with the species/population phylogeny as well as coalescent and lineage sorting (See Burgess & Yang 2008 *Mol. Biol. Evol.* 25:1979-1994; Yang 2010 *Genom. Biol. Evol.* 2:200-211; Yang & Rannala 2010 *PNAS* 107:9264-9269; Zhang, et al. 2011 *Syst. Biol.* 60:747-761; Zhu & Yang 2012 *Mol. Biol. Evol.* 29:3131-3142).

The post is funded by the BBSRC for up to 33 months in the first instance. It is available immediately.

Key Requirements

We seek a highly-motivated research scientist with expertise in computational statistics (MCMC, rjMCMC and other advanced Monte Carlo algorithms) and in computer programming (C/C++, R, and PERL). Experience of UNIX/Linux is essential.

A PhD (or working towards a PhD) in one of the following areas is essential: computational statistics, computer science, theoretical population genetics, and statistical phylogenetics. Individuals with PhDs in other areas of biology are invited to apply if they can demonstrate a strong statistical/computational background. Knowledge and expertise in statistical inference and in Bayesian computation and the ability to work in a col-

laborative environment is also essential. A proven track record of effective research in the field is highly desirable.

Further Details

If you have any formal enquiries please contact Professor Ziheng Yang FRS at z.yang@ucl.ac.uk. For enquiries about the application process please contact Christine Davis <christine.davis@ucl.ac.uk>.

Your application should include a brief personal statement, explaining how your qualifications and experience make you a good candidate for this job, a CV and the names and email addresses for two references. Apply at the website: < https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=-5041178&ownertype=fair&jcode=1321666

>https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5041178&ow

UCL Taking Action for Equality

Closing Date: 4pm, 17 April 2013

Ziheng Yang <z.yang@ucl.ac.uk>

UCollege London EvolutionSexes

Postdoctoral Research Fellowship, Evolutionary Origin of Sexes

University College London

A 2-year postdoctoral research fellowship funded by the EPSRC is available in the Department of Genetics, Evolution and Environment, UCL. We seek an enthusiastic and highly motivated postdoc, with experience in population genetics, mathematical modelling and computer simulation. The post holder will join the research groups of Professor Andrew Pomiankowski and Dr Nick Lane. They will also be a member of CoMPLEX and the 2020 Science Programme, a collaboration between UCL, Oxford University and Microsoft Research Cambridge

www.ucl.ac.uk/gee/staff www.ucl.ac.uk/complex
www.2020science.net

The origin of two sexes is thought to be linked to the advantages of uniparental inheritance of cytoplasmic genes (mitochondria, chloroplasts). This project will extend existing theoretical work (1,2) to consider the evolution of true sexes in multicellular organisms from two mating types in ancestral protists, coincident with the development of germ/soma differentiation. Constraints on mitochon-

drial and nuclear mutation rates will be considered in relation to mitonuclear coadaptation and multicellular development. Parallels between somatic mitochondrial mutations and evolutionary constraints on asexual reproduction will be explored. The project will also consider the importance of male-female sexual conflict over gene expression that might have favoured the transfer of mitochondrial genes to the nucleus, also in relation to the 'Mother's curse'.

(1) Hadjivasiliou, Z., Pomiankowski, A., Seymour, R. M. and Lane, N. 2012 Selection for mitonuclear coadaptation could favour the evolution of two sexes. *Proceedings of the Royal Society B* 279, 1865-1872. (2) Hadjivasiliou, Z., Seymour, R. M., Lane, N. and Pomiankowski, A. 2013 Dynamics of mitochondrial inheritance in the evolution of binary mating types and two sexes. MS

Suitable candidates will be highly motivated researchers with a PhD in a relevant area of science, such as: mathematical or computational biology, computer science or biology. Research experience of mathematical or computational modelling is essential. The postholder is expected to be exceptional early-stage scientists who will apply for further research fellowship funding during the period of the award.

Closing Date: 1 April 2013 A job description and person specification can be accessed at <http://www.2020science.net/about/opportunities> or at www.jobs.ac.uk (search term "sexes") Please send expressions of interest & CV to ucbhpom@ucl.ac.uk and nick.lane@ucl.ac.uk

Andrew Pomiankowski Professor of Genetics UCL
ucbhpom@ucl.ac.uk

a.pomiankowski@ucl.ac.uk

UCollege London SexEvolution

Postdoctoral Research Fellowship, Evolutionary Origin of Sexes ***New application deadline April 15th***

University College London

A 2-year postdoctoral research fellowship funded by the EPSRC is available in the Department of Genetics, Evolution and Environment, UCL. We seek an enthusiastic and highly motivated postdoc, with experience in population genetics, mathematical modelling and computer simulation. The post holder will join the research

groups of Professor Andrew Pomiankowski and Dr Nick Lane. They will also be a member of CoMPLEX and the 2020 Science Programme, a collaboration between UCL, Oxford University and Microsoft Research Cambridge

www.ucl.ac.uk/gee/staff < <http://www.ucl.ac.uk/gee/staff> > www.ucl.ac.uk/complex < <http://www.ucl.ac.uk/complex> > www.2020science.net < <http://www.2020science.net/> >

The origin of two sexes is thought to be linked to the advantages of uniparental inheritance of cytoplasmic genes (mitochondria, chloroplasts). This project will extend existing theoretical work (1,2) to consider the evolution of true sexes in multicellular organisms from two mating types in ancestral protists, coincident with the development of germ/soma differentiation. Constraints on mitochondrial and nuclear mutation rates will be considered in relation to mitonuclear coadaptation and multicellular development. Parallels between somatic mitochondrial mutations and evolutionary constraints on asexual reproduction will be explored. The project will also consider the importance of male-female sexual conflict over gene expression that might have favoured the transfer of mitochondrial genes to the nucleus, also in relation to the 'Mother's curse'. (1) Hadjivasiliou, Z., Pomiankowski, A., Seymour, R. M. and Lane, N. 2012 Selection for mitonuclear coadaptation could favour the evolution of two sexes. *Proceedings of the Royal Society B* 279, 1865-1872. (2) Hadjivasiliou, Z., Seymour, R. M., Lane, N. and Pomiankowski, A. 2013 Dynamics of mitochondrial inheritance in the evolution of binary mating types and two sexes. MS

Suitable candidates will be highly motivated researchers with a PhD in a relevant area of science, such as: mathematical or computational biology, computer science or biology. Research experience of mathematical or computational modelling is essential. The postholder is expected to be exceptional early-stage scientists who will apply for further research fellowship funding during the period of the award.

Closing Date: 15 April 2013 A job description and person specification can be accessed at <http://www.2020science.net/about/opportunities> or at www.jobs.ac.uk < <http://www.jobs.ac.uk/> > (search term "sexes") Please send expressions of interest & CV to ucbhpom@ucl.ac.uk and nick.lane@ucl.ac.uk

Andrew Pomiankowski Professor of Genetics UCL
ucbhpom@ucl.ac.uk

a.pomiankowski@ucl.ac.uk

UCopenhagen 4 Phylogeography MacroEvolution

Dear Colleagues,

The Center for Macroecology, Evolution and Climate, University of Copenhagen (Natural History Museum of Denmark and Department of Biology), is accepting applications for postdoc/assistant professor positions in four Biodiversity-related themes, one of which is Phylogeography. The goal of this position is to integrate phylogeographic approaches with macroecology, macroevolution and/or community ecology. More details can be found here: http://macroecology.ku.dk/-opportunities_new/ We seek internationally competitive candidates with a strong publication record. We expect strong analytical and data handling skills and the ability to communicate within a cross-disciplinary research center. Research will be conducted with Carsten Rahbek and other researchers in the Center for Macroecology, Evolution and Climate.

Inquiries can be made to Professor Carsten Rahbek, e-mail: crahbek@bio.ku.dk The closing date for applications is 15 March.

The center (<http://macroecology.ku.dk/>) is a long-term funded center of excellence with a cross-disciplinary research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth. Researchers at the center currently represent 14 nationalities and the working language is English.

Katharine A. Marske, Ph.D. Postdoctoral Researcher Center for Macroecology, Evolution and Climate Department of Biology University of Copenhagen DK-2100 Copenhagen Ø Denmark

+45 35 32 13 34

<http://macroecology.ku.dk/> —

Dear Colleagues,

The Center for Macroecology, Evolution and Climate, University of Copenhagen (Natural History Museum of Denmark and Department of Biology), is accepting applications for postdoc/assistant professor positions in four Biodiversity-related themes, one of which is Macroecology. Research will be conducted with Professor Carsten Rahbek and other researchers in the Center for Macroecology, Evolution and Climate.

The goal of this position to work on research questions related to what determines large-scale patterns of species distribution, species assemblages, species richness and life-history traits using vast quantitative databases on species distribution with phylogenetic information in association with climatologic, geophysical, geological, and ecological information. We are seeking a scientist with a strong background of natural history who has excellent analytical, spatial statistical and modeling skills (e.g. null modeling, predictive modeling, simulation modeling, species distribution, and niche-modeling, etc). We are particularly interested in considering the influence of history and evolutionary processes on contemporary patterns of diversity along environmental gradients across large spatial and temporal scales and/or in mountain regions.. More details can be found here: http://macroecology.ku.dk/-opportunities_new/ Inquiries can be made to Professor Carsten Rahbek, e-mail: crahbek@bio.ku.dk The closing date for applications is 15 March.

The center (<http://macroecology.ku.dk/>) is a long-term funded center of excellence with a cross-disciplinary research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth. Researchers at the center currently represent 14 nationalities and the working language is English.

Katharine A. Marske, Ph.D. Postdoctoral Researcher Center for Macroecology, Evolution and Climate Department of Biology University of Copenhagen DK-2100 Copenhagen Ø Denmark

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<http://macroecology.ku.dk/> —

Dear Colleagues,

The Center for Macroecology, Evolution and Climate, University of Copenhagen (Natural History Museum of Denmark and Department of Biology), is accepting applications for postdoc/assistant professor positions in four Biodiversity-related themes, one of which is Macroevolution. Research will be conducted with Professor Carsten Rahbek and other researchers in the Center for Macroecology, Evolution and Climate.

The goal of this position is to study diversification of bird, mammals, or amphibian groups at a regional, continental to global scale in time and space. We are seeking an evolutionary zoologist with strong phylogenetic conceptual background, analytical capabilities, experience in morphological and/or molecular data, and an interest in analyzing diversification processes in time and geographical space combining phylogenies with data on vertebrate species distributions, species

assemblages and earth history information. More details

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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>

UEdinburgh EvolutionaryBiol

Jobs: University of Edinburgh: Chancellor's Fellowships in Biology

As part of a University-wide recruitment programme, the School of Biological Sciences seeks to appoint a new cohort of Chancellor's Fellows as an investment in the future of teaching and research. These prestigious Fellowship awards are aimed at early-career individuals of the highest potential who have begun to establish a reputation for the highest quality research at the forefront of their discipline and who have a commitment to learning and teaching at university level.

Substantial mentoring and development support will be available through and beyond the Fellowship period.

One of the UK's largest and most highly-rated life sciences departments, the School of Biological Sciences provides an excellent environment for research and teaching with a strong emphasis on interdisciplinary research. We welcome fellowship applicants in the following biological and biomedical research areas; exceptional candidates with research interests in other areas of biological sciences may also be considered. We expect to appoint at least six Fellows.

Priority areas: Epigenetics and genome function Synthetic biology and biotechnology Infection biology, evolutionary medicine and global health Stem cell biology

Full details at <http://www.ed.ac.uk/schools-departments/biology/research/ch-fellows2> Informal enquiries are welcomed and should be directed to the Head of School, Professor David Leach, hossbs@ed.ac.uk

Further information on our research themes, institutes and centres can be found on our website: <http://www.biology.ed.ac.uk/research> The closing date for the applications is 17:00 GMT on 18th April 2013. For further information and to apply, please visit the University's recruitment pages at

the link below. https://www.vacancies.ed.ac.uk/pls/-corehrrecruit/erq_jobspec_version_4.displ ay_form

Prof. J.M. Pemberton Institute of Evolutionary Biology University of Edinburgh West Mains Road EH9 3JT

Tel: 0131 650 5505 Fax: 0131 650 6564 Web: <http://wildevolution.biology.ed.ac.uk/>

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

Josephine Pemberton <j.pemberton@ed.ac.uk>

UHawaii Hilo TropicalConservation

Please see the post-doctoral position below and send to others who may be interested.

*Postdoctoral Fellowship (Evolutionary ECOLOGY/FIELD BIOLOGY)** - ID# 13147. * Tropical Conservation Biology and Environmental Science. Regular, Full-Time, RCUH Non-Civil Service position with the Tropical Conservation Biology and Environmental Science (TCBES) Program, located in Hilo, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws. *Minimum Monthly Salary:* \$3,222/Mon. *Duties: *Participates in the National Science Foundation (NSF)-supported research that focuses on the change in diversity of arthropods across the age-structure chronology of the islands of Hawaii and Maui. For each group of arthropods, examines how species have changed over time in diversity, abundance, and interactions with others in the community. Collects specimens of arthropods across the islands at defined sites. Assesses the best strategy for collecting different groups. Develops protocol for consistent quantitative sampling. Identifies specimens to species using available keys. Prepares reports and results suitable for publication. Mentors graduate and undergraduate students in field techniques and specimen identification. *primary Qualifications: Education: *PhD from an accredited college or university in a relevant field. * Experience**:* Experience with arthropod collection and identification. Experience collecting and identifying multiple different kinds of arthropods. Experience with ecological sampling methods and tools for quantitative

assessment and standardization. *Abil/Know/Skills:* Good general knowledge of arthropods - ability to identify a wide variety of groups to family, preferably genus/species. Strong field skills are absolutely necessary. Quantitative and statistical skills. Self-starter and creative problem solver. Strong communication and interpersonal skills. *Physical/Medical Requirements: *Ability to hike long distances and work in day or night field situations. *SECONDARY Qualifications: *Knowledge of collecting and identifying Hawaiian arthropods would be helpful. Experience or familiarity with Structured Query Language (SQL) and big data. *Inquiries: Donald Price 974-7365, donaldp@hawaii.edu (Hawaii).* *Application Requirements:*Please go to www.rcuh.com, click on "Employment"; select "Apply" and navigate to "See Job Announcements and/or Apply for a Job." You must submit the following documents online to be considered for the position: 1) Cover Letter, 2) Resume, 3) Salary History, 4) Supervisory References, 5) Copy of Degree(s)/Transcript(s)/Certificate(s). All online applications must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time) as stated on the job posting. If you do not have access to our system and the closing date is imminent, you may send additional documents to rcuhr@rcuh.com. If you have questions on the application process and/or need assistance, please call (808)956-8344. *Closing Date: March 29, 2013.* EEO/AA Employer.

Press releases related to this project:

http://www.nsf.gov/awardsearch/showAward?AWD_ID=3D1241228&HistoricalAwards=false <http://newscenter.berkeley.edu/2012/11/21/scientists-look-to-hawaiis-bugs-for-clues-to-origins-of-biodiversity/> <http://bigislandnow.com/2012/11/22/study-to-focus-on-hawaiis-unique-insects-and-spiders/>
Dr. Donald Price Director TCBES Graduate Program Professor of Biology University of Hawaii at Hilo Hilo, HI 96720

donaldp@hawaii.edu <http://tcbes.uhh.hawaii.edu/>
<http://www.hawaii.edu/uhhbiology/> <http://www2.hawaii.edu/~donaldp/> donaldp@hawaii.edu

Uillinois PlantConservation

Post Doctoral Research Associate in Plant Conservation Biology Illinois Natural History Survey (INHS)

Prairie Research Institute (PRI) University of Illinois at Urbana-Champaign

INHS is seeking a Post Doctoral Research Associate in Plant Conservation Biology to develop population viability analyses and climate change vulnerability assessments for rare plants.

Project description: This one year projects main goal is to evaluate the extinction likelihood of several rare plants and their responses to climate change. This position will be located in Champaign, Illinois.

Job description: Primary position functions are to develop population viability analyses and climate change vulnerability assessments for rare plants in Texas. Prepare technical reports and manuscripts describing results. Present results to granting agency.

Qualifications: Must possess a Ph.D. degree in biology or related field, received within the last five years. Should have at least 3 years of field experience with surveying and monitoring of plant populations. Preferred knowledge of threatened and endangered plant species including their identification and habitat requirements. Must be proficient with population viability analysis. Must have some knowledge of climate change vulnerability assessment. Must have experience with statistical analysis software, especially R. Competency with GIS software. Excellent writing skills. Strong interpersonal skills and ability to work in a team environment. Must be able to hold a valid driver's license. Preferred experience supervising subordinates. Must be willing to occasionally travel out of state.

Salary: \$35,000 - \$38,000 per year commensurate with experience and education. This is a post doctoral grant supported 12-month position. The estimated starting date is June 1,2013.

Benefits: Generous vacation and sick leave. State Universities Retirement System. Group health,dental, vision and life insurance.

Applications must be received by March 15, 2013. To apply, all candidates must submit an online profile through <https://jobs.illinois.edu> by the close of the posting period. Qualified candidates must upload a letter which details qualifications noted above, curriculum vitae,e-mail address, and the names, addresses, phone numbers, and e-mail addresses of three professional references. All requested information must be submitted for the application to be considered. Incomplete information will not be reviewed.

For further information please contact Erica Hanson, Human Resources, Illinois Natural History Survey, 217-333-6897, elhanson@illinois.edu.

For technical questions, please contact: Dr. Brenda Molano-Flores, Search Committee, molano1@illinois.edu.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. The administration, faculty, and staff embrace diversity and are committed to attracting qualified candidates who also embrace and value diversity and inclusivity. www.inclusiveillinois.illinois.edu “Feist, Mary Ann Elizabeth” <mfeist@illinois.edu>

UMississippi Malagasy Ant Speciation

The laboratory of Dr. Brice Noonan in the department of Biology at the University of Mississippi has a postdoctoral position available (preferred starting date: by August 1). The two-year (NSF) position will broadly explore phylogeography and speciation of ants in Madagascar in collaboration with Brian Fisher (California Academy of Sciences). Expertise with laboratory methods and relevant analyses is required and experience with emerging methodologies (DDRAD, GBS etc.) is desirable. More information on the laboratory can be found at <http://bnoonan.org>. Contact Dr. Brice Noonan at bnoonan@olemiss.edu for more information. If you are interested in the position please send your CV with the names and contact information of three references. Thank you.

Brice Noonan U. Mississippi, Biology Box 1848 University, MS 38677 Ph: 662-915-6705 Fx: 662-915-5144 email: bnoonan@olemiss.edu web: www.bnoonan.org Brice Noonan <bnoonan@olemiss.edu>

UNebraska Populations

POPULATION BIOLOGY POSTDOCTORAL RESEARCH FELLOWSHIP

THE UNIVERSITY OF NEBRASKA-LINCOLN is seeking applications for a 2-year postdoctoral position in the in Population Biology Program of Excellence.

A Ph.D. in Biology, Ecology, Evolution, Genetics, or Mathematics, and expertise in any aspect of population

biology is required. Qualified candidates are required to contact a potential faculty advisor in the School of Biological Sciences, School of Natural Resources, or Department of Mathematics to develop a 2-year research project. In addition to research with the faculty advisor the Postdoctoral Fellow will be required to teach one graduate seminar/year. Applications must include a CV, a 1-page description of previous research, a 1-page description of proposed research, and a 1-page description of two potential graduate seminars. Applications should be emailed as a single pdf to: dpilson1@unl.edu. The subject line should read “Population Biology Postdoc application”. In addition, the applicant must arrange for three letters of reference (one of which must be from the proposed faculty sponsor) to be emailed to the same address.

Applications should be received by 1 May 2013 in order to ensure full consideration. Questions about the program should be directed to Diana Pilson (dpilson1@unl.edu). The salary is competitive. We strongly encourage applications from women and members of minority groups. The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers. We assure responsible accommodation under the Americans with Disabilities Act.

Diana Pilson School of Biological Sciences 348 Manter Hall University of Nebraska Lincoln, NE 68588-0118

402-472-2347 (office) 402-472-2083 (fax)

dpilson@unl.edu

UNottingham MarieCurieFellowships EvolBiol

Marie Curie Fellowships for International and European Union applicants School of Biology, University of Nottingham, UK

The University of Nottingham is keen to attract applicants for the recently published Marie Curie Fellowships call (<http://ec.europa.eu/research/mariecurieactions/>). Applicants can be Europeans (but not British (strictly speaking, they must not have spent more than 12 months of the last three years in the UK, as at the call deadline)) applying for Intra-European or International Outgoing Fellowships (IEF or IOF), or other na-

nationalities applying for International Incoming Fellowships (IIF). All fellowships are very well funded. The University of Nottingham will support applicants with significant proposal writing assistance and this has resulted in a high Nottingham success rate (30% versus the average which is under 20%).

Projects are proposed by applicants, but Nottingham has strengths in several areas of evolutionary biology (see <http://ecology.nottingham.ac.uk/people.html> and <http://www.nottingham.ac.uk/biology/research/index.aspx>) including the genetic basis, and ecological significance of variation in parasite resistance, and the ecology of adaptive radiation (<http://www.nottingham.ac.uk/~plzadcm/index.php>).

Informal enquiries may be addressed to Andrew MacColl, tel: 0115 951 3410 or email: andrew.maccoll@nottingham.ac.uk

Lecturer in Evolutionary Ecology School of Biology University of Nottingham University Park Nottingham NG7 2RD Tel: +44 115 951 3410 Fax: +44 115 951 3251 Email: andrew.maccoll@nottingham.ac.uk
<http://www.nottingham.ac.uk/biology/research/animal-behaviour-and-ecology/andrew.maccoll>
<http://ecology.nottingham.ac.uk/maccoll.html>
andrew.Maccoll@nottingham.ac.uk

UNottingham MarieCurieFellowships SnailsColourPolymorphism

Marie Curie Fellowships for International and European Union applicants School of Biology, University of Nottingham, UK

The University of Nottingham is keen to attract applicants for the recently published Marie Curie Fellowships call (<http://ec.europa.eu/research/mariecurieactions/>). Applicants can be Europeans applying for Intra-European or International Outgoing Fellowships (IEF or IOF), or other nationalities applying for International Incoming Fellowships (IIF). The University of Nottingham will support applicants with significant proposal writing assistance and this has resulted in a high Nottingham success rate (30% versus the average which is under 20%).

Projects are proposed by applicants, but Nottingham has strengths in several areas of evolutionary biology (<http://www.nottingham.ac.uk/biology/research/>

[index.aspx](#)).

Specifically, the Davison lab is seeking to expand upon progress that we recently made in mapping the “supergene” that determines colour and banding in the land snail, *Cepaea nemoralis*. See <http://onlinelibrary.wiley.com/doi/10.1111/mec.12262/full>

Informal enquiries may be addressed to Dr. Angus Davison, Reader in Evolutionary Genetics, School of Biology, University Park, University of Nottingham. NG7 2RD.

angus.davison@nottingham.ac.uk

www.angusdavison.org

angus.Davison@nottingham.ac.uk

An-

UOslo FungalGenomics

A three year Post Doc position in Fungal Genomics is available at University of Oslo.

The successful candidate will work with dry rot (*Serpula*) and the genetic, expressional, and physiological basis for its success as an invader of human-made wooden constructions. The candidate will be part of an international team working on genomics, transcriptomics, and population genetics of the fungus *Serpula lacrymans* and related species. The position is available from July 1st 2013.

For this position we seek a motivated and independent candidate that has completed a PhD degree in biology or bioinformatics, preferably in genomics/transcriptomics. The candidate should have experience in analyzing high throughput sequence data and short read sequences, and using bioinformatics tools such as UNIX, scripting (PERL/Python/R) and others. Knowledge and experience from comparative/population genomics, fungal genomics, regulation of gene expression, fungal decay mechanisms, cultivation of fungi, DNA/RNA extraction, and molecular lab will be considered strengths. The ability to work in team is essential, and a strong publication record is desired.

The project will be housed in the MERG research group at the Department of Biosciences, University of Oslo. MERG is an interdisciplinary research group focusing on the ecology and evolution of microorganisms, including protists and fungi.

See the webpage for more information and how to apply (the Application dead-line is March 18th): <http://www.fungalgenomics.uio.no>

[/uio.easycruit.com/vacancy/921569/96323?iso=no](http://uio.easycruit.com/vacancy/921569/96323?iso=no)

Candidates are welcome to contact me for questions or more information.

Best Wishes, Inger Skrede

Inger Skrede Microbial Evolution Research Group (MERG) Department of Biosciences University of Oslo P.O.Box 1066 Blindern N-0316 Oslo, Norway email: inger.skrede@ibv.uio.no Phone: +47 92434694

Inger Skrede <inger.skrede@ibv.uio.no>

UQueensland LateralTransfer

Dear colleague,

A postdoctoral position is available in my research group at the Institute for Molecular Bioscience, the University of Queensland (Brisbane, Australia). The incumbent has been recruited by a well-known multinational company halfway through the three-year project, which is funded by the J.S. McDonnell Foundation. At this point, I can offer an 18-month position beginning in the second half of 2013 (ideally in July-August 2013, and in no case later than December 2013).

The advertisement is linked at

<http://www.seek.com.au/Job/research-officer/in/-brisbane-cbd-inner-suburbs/24205424> and at

<http://uqjobs.uq.edu.au/jobDetails.asp?sJobIDs=-494496&lWorkTypeID=&lLocationID=-&lCategoryID=&lBrandID=1722&stp=-AW&sLanguage=en> More information is below.

I'd be most grateful if you could call this to the attention of anyone with the relevant qualifications, skills and interests in your group, department or institution.

Sincerely, mark ragan

*** ***** ***

Primary Purpose of Position

The person appointed to this position will carry out and supervise computational and bioinformatic research on lateral (horizontal) genetic transfer (LGT), focusing on networks of LGT in the microbial biosphere. Complete genome sequences are available for more than 2000 prokaryotes, and large-scale sequence datasets are becoming available for entire microbial communities and environments. Computational and bioinformatic analyses offer powerful insights into the nature and mecha-

nisms of LGT, and its biological implications. However, the data are now so large that many established algorithmic approaches are no longer computationally feasible. Innovative new approaches based on substrings (also known as words, /k/-mers or /n/-grams) offer scalability, but their suitability for large-scale inference and analysis of LGT remains to be systematically explored. Highly competitive external funding has been obtained to investigate the sensitivity and robustness of the topology of inferred LGT networks to how /k/-mer approaches are parameterized (/e.g. k/-mer length, merging criteria), using whole-genome and community sequence data from the microbial biosphere. The primary purpose of this position is to drive this research project to a successful outcome.

Closing date 8 April 2013

(We will, however, continue to accept applications until an appointment is confirmed).

– Mark A. Ragan, Professor and Head Genomics and Computational Biology Institute for Molecular Bioscience Professor, School of Information Technology & Electrical Engineering The University of Queensland Brisbane, Qld 4072 Australia

Director, ARC Centre of Excellence in Bioinformatics tel +61-7-3346-2616 / 2617 fax +61-7-3346-2101

m.ragan@uq.edu.au <http://www.imb.uq.edu.au> <http://bioinformatics.org.au> <http://www.qfab.org.au> Mark Ragan <m.ragan@uq.edu.au>

UTexas Austin EvolutionaryImmunology

Postdoc: Immunology in natural populations; University of Texas at Austin & HHMI

Interested candidates are invited to apply for a postdoctoral position in immunology, with an emphasis on microevolution of immune function in natural populations. With funding from the Howard Hughes Medical Institute (HHMI), Dr. Dan Bolnick's research group (at the University of Texas at Austin) is investigating the immunological and genetic basis of adaptation to diverse communities of helminth parasites of the three-spine stickleback (*Gasterosteus aculeatus*). The stickleback has long been a major model organism in evolutionary genetics, ecology and behavior, and the recent publication of many stickleback genome sequences and

development of transgenic methods offers new opportunities. The Bolnick lab is searching for an immunologist for a two year postdoctoral position to develop new methods for studying immune function in this model organism. The postdoc can help determine the nature of these methods. The postdoc will help apply these tools to understand vertebrate resistance or tolerance of parasites, and to study within-population variation and between-population divergence in immune function. The postdoctoral researcher will be responsible for conducting laboratory research, data analysis, and manuscript preparation. Involvement with field research is an option.

Candidates should have a PhD in immunology or a related field, and a proven record of research in immunology, evidenced by successful publishing in scientific journals. Good communication skills are essential.

The postdoctoral position comes with a competitive salary, as well as health insurance and retirement investment benefits. The position's start date is negotiable. The position's duration is approximately 2 years (through August 2015), and might be extended if additional funding is acquired. The postdoc will be an employee of the Howard Hughes Medical Institute, with an additional appointment at the University of Texas at Austin.

To apply for the postdoctoral position, please send a CV, pdfs of at least 2 relevant papers, and a cover letter summarizing your qualifications. In the cover letter, you are encouraged to include a brief proposal of the kinds of immunological or genetic tools you could develop for stickleback, and their relevance for understanding host-parasite interactions and/or coevolution. Please provide contact information for at least two references.

Applications will be reviewed starting April 15, but the position will remain open until filled by a suitable candidate. Please contact Dr. Daniel Bolnick (danbolnick@austin.utexas.edu) for inquiries.

The Bolnick lab's research focuses on evolutionary ecology of trait variation within populations, including variation in diet, courtship traits, and immune function. More information on research in the lab can be found at <https://webspaces.utexas.edu/dib73/Bolnicklab/Bolnicklab.htm?uniq=5ptsas> .

More information on the Section of Integrative Biology can be found at <http://www.biosci.utexas.edu/ib/> .

HHMI and the University of Texas are Affirmative Action/Equal Opportunity Employers

Dr. Daniel Bolnick Section of Integrative Biology Uni-

versity of Texas at Austin Austin, TX 78712 USA danbolnick@austin.utexas.edu 512-471-2824 (work) 512-471-3878 (fax)

danbolnick@austin.utexas.edu

UToronto Evolutionary Genomics

Postdoctoral researcher in evolutionary genomics

We are seeking a postdoctoral researcher to work with Aneil Agrawal and Stephen Wright on the evolutionary genomics of duckweed. The focal species is facultatively sexual and the long-term goal of the research program is to understand how sex, recombination, and selection interact to affect fitness and shape genome diversity. The initial projects will involve whole genome re-sequencing of natural populations to quantify patterns of diversity and disequilibria within and among populations. These patterns, and how they change within and across seasons, will be examined to infer effective rates of sex and recombination as well as selection on coding and non-coding regions. Experiments directly testing how sex alters the distribution of genotypic fitnesses are also planned. There is scope for the successful candidate to generate new experimental or genomic projects related to the overall goals of the research program.

The ideal candidate would have experience with next-generation sequence data and population genomics analyses, have good quantitative and computing skills, and have experience with plants. However, we will consider any motivated applicant interested in evolutionary genomics. Salary is approximately \$40,000 per year and the position is available for one year, with the possibility to renew for a second year.

Interested candidates should send a CV, the names and contact info of three references, and a cover letter explaining the candidate's interest in the position and overall research aims and accomplishments to Aneil Agrawal <a.agrawal@utoronto.ca>. Applications received by April 15, 2013 will receive full consideration. The proposed start date is Aug. 1, 2013.

The Department of Ecology & Evolutionary Biology at the University of Toronto is a fantastic community for people interested in ecological and evolutionary genetics. Toronto is a safe, tolerant, cosmopolitan city with tremendous cultural resources and attractions.

Links of interest:

Aneil Agrawal: <http://labs.eeb.utoronto.ca/agrawal/>
 Stephen Wright: <http://labs.eeb.utoronto.ca/wright/-Stephen.I.Wright/Welcome.html> EEB @ UofT:
<http://www.eeb.utoronto.ca/home.htm>

a.agrawal@utoronto.ca

UUtah PlantAnimalInteractions

Postdoctoral Fellowship Plant-Animal Interactions: The Dearing lab at the University of Utah invites applications for a postdoctoral fellow to participate in a study to understand the co-evolution of mammalian herbivores with plant defensive compounds. Few mammalian herbivores are capable of dietary specialization. This collaborative project will investigate the role of a subfamily of detoxification enzymes with respect to dietary strategy. Our preliminary data implicate the cytochrome P450 2B subfamily as being critical in the biotransformation of plant secondary compounds, particularly terpenes. The structure and copy number of CYP2B enzymes may be key in an herbivore's ability specialize on a terpene-rich diet. Future work on this project will consist of identifying CYP2B genes (cloning and sequencing) from a variety of wild mammalian species, comparing predicted protein sequence with respect to degree of dietary specialization, characterizing the function of the proteins purified from heterologous expression systems, and determining the structural basis of functional differences. For more information on previous research, see

http://biologylabs.utah.edu/dearing/2011/-Publications/journal_pone_0041510.pdf <http://biologylabs.utah.edu/dearing/2011/Publications/-Woodrats/mec.4171.pdf>

The ideal candidate will have a strong interest and experience in theories and techniques of molecular evolution, molecular ecology or plant-animal interactions. Basic molecular skills are required; more extensive experience is preferred. Field work for animal collection is possible. The candidate should have at least one first authored publication in press. The Dearing lab provides a strong training and career development environment for candidates interested in academic positions. Teaching experience (Mammalogy) is possibility for interested candidates.

Applications will be reviewed as they are received through April 15th, 2013. The anticipated start date is August 1, 2013, with an earlier start date preferable. Please send a C.V., statement of research interests

that includes career goals (1-2 pgs), pdfs of papers, and contact information (emails and phone numbers) for at least 3 professional references to Dr. Denise Dearing, denise.dearing@utah.edu; please put "Postdoctoral Applicant" in the Subject Line.

Denise Dearing Professor, Department of Biology Associate Dean, College of Science 315 South 1400 East University of Utah Salt Lake City, UT 84112

Denise Dearing <dearing@science.utah.edu>

UWashington SalmonidGenomics

U.Washington.SalmonidGenomics

School of Aquatic and Fishery Sciences, College of the Environment

The School of Aquatic and Fishery Sciences (SAFS < <http://fish.washington.edu/> >) at the University of Washington has an opening for one postdoctoral Research Associate (100% time) to conduct research using genotyping-by-sequencing applications in Pacific salmon. Funding is for 2 years, but the University of Washington policy is to offer a one year appointments with subsequent renewals. Funding originates from projects to discriminate among closely related populations and to evaluate relative reproductive success of individuals from hatchery origin. The position is not tenure-track.

The general scope of the appointment includes but is not limited to:

Develop genomic data sets using genotyping by sequencing.

Bioinformatics.

Use existing and newly acquired data sets to expand upon project objectives to publish original research on salmon population genetics, adaptation, and conservation.

Mentor and otherwise assist and co-author with graduate students who are doing projects in salmon genomics. * *

Requirements: Ph.D. in genetics, biology, or a related field.

The following experience is desired: expertise in next-generation DNA sequencing, expertise in bioinformatics, publication(s) from Ph.D.* *

Position is located at the University of Washington, Seattle, Washington. The University of Washington is an affirmative action, equal opportunity employer. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans.

Interested persons should send a two-page CV and a letter of intent including names and contact information for three references via email to *Dr. Jim Seeb, School of Aquatic and Fishery Sciences*, University of Washington (*jseeb@uw.edu*). Application deadline is April 19, 2013.* *A background check for criminal history is required for successful candidates.

Jim Seeb <jimseeb@gmail.com>

UWesternSydney InsectPlantInteractions

Postdoctoral researcher in insect/plant interactions at the Hawkesbury Institute for the Environment, University of Western Sydney.

Position description: We seek to appoint an energetic researcher to conduct research on insect/plant interactions in relation to environmental change. The three-year position is within the Institute's Plants, Animals and Interactions research theme. Applicants should be keen to integrate ecological, genetic and evolutionary approaches, as well as field and laboratory studies. Field facilities include a Free Air CO₂ Enrichment (FACE) experiment in native woodland and our new, well-equipped laboratories include an in-house Next-Generation Sequencing and bioinformatics facility. The successful candidate will work with Prof. James Cook to develop and conduct research projects in one or more of his main areas of interest, which centre on the evolution and ecology of insect interactions with plants and microbial endosymbionts.

Applications: Please note that the application must be made online at the UWS website and NB the CLOSING DATE IS 21 March 2013. <https://uws.nga.net.au/cp/>
Further details: Further details can be obtained from james.cook@uws.edu.au http://www.uws.edu.au/-/research/plants,_animals_and_interactions
James.Cook@uws.edu.au

Vienna PopulationGenomics OldWorldCamelids

Post-doctoral Researcher Vetmeduni Vienna (1.5 - 2 years)

Institute of Population Genetics

—Position description—

A postdoc position in Population Genomics is available in the newly established group of Dr. Pamela Burger in the Institute of Population Genetics, Vetmeduni Vienna. We are interested in the (domestication) history of Old World camelids (Bactrian camels and dromedaries) using whole genome approaches on modern and ancient samples. Research topics will focus on (i) detecting selection in the domestic species and (ii) the demographic history of *Camelini.* Aspects of conservation genomics will be included with the analysis of wild Bactrian camel genomes. The project is embedded in an international collaboration/ network between the Vetmeduni Vienna, the Ludwig Maximilians University Munich, the University of Helsinki, the Mongolian Academy of Sciences and the King Faisal University, KSA. Details of the current research projects can be found here < http://i122server.vu-wien.ac.at/pop/-Burger_website/burger_home.html > .

The position is available for 1.5 (full time) to 2 (part time) years and may be continued depending on successful progress and available funding. A competitive salary and travel opportunities will be offered. The position is expected to start in spring/summer 2013, though a specific start date is negotiable. In the last several years, Vienna established an internationally leading platform in evolutionary biology (<http://www.evolvienna.at>) and the Vienna School of Population Genetics (<http://www.popgen-vienna.at>), which both attract scientists and graduate students from all over the world. Apart from a stimulating scientific environment, Vienna also offers an extraordinarily high quality of life and ranks among the most attractive cities in Europe.

—Qualifications—

- The successful candidate will be highly motivated and should have a PhD in biology, genetics, computer science, statistics, bioinformatics, computational biology, or a related field - Knowledge of population genetics and next-gen sequencing as well as programming skills are

essential, with knowledge of Python (Perl), R, and the Unix shell highly desirable. Other programming expertise (such as Java, C/C++) and complex trait mapping is a plus - Preference will be given to candidates with a strong publication record, the ability to work well in an interdisciplinary, collaborative environment, and with an interest in camels :)

—Application—

Interested candidates should send CV, a short description of their research interests and contact in-

formation for 2 references to Dr. Pamela Burger: pamela.burger@vetmeduni.ac.at Application deadline is 24 March 2013.

Dr. med. vet. Pamela Burger Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien, Austria Tel.: +43(0)1-25077-4333 (office)/-4390 (fax)

NEU: — *Camels in Asia and North Africa < <http://hw.oeaw.ac.at/7244-4?frames=3Dyes> >- -*

pamela.burger75@gmail.com

WorkshopsCourses

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Arolla Switzerland EvolLifeHistory Aug11-14

“The Evolution of Proximate Mechanisms for Behavioural and Life History Decisions”

Workshop, 11-14 August 2013, Arolla, Switzerland

Organizers: Barbara Taborsky and Sander van Doorn
A workshop of the CUSO 'Doctoral Program in Ecology and Evolution' (DPEE)

The distinction between proximate and ultimate research approaches in biology seems to be carved in stone. However, today molecular techniques open up the black box of information processing and decision

making. Molecular life scientists increasingly apply evolutionary principles to explain patterns in their data. Recent integrative approaches seem highly fruitful and gave rise to novel disciplines such as *evo-devo* and *eco-devo*.

This workshop will be headed by leading researchers transcending the boundary between mechanistic and functional approaches. The program focus is the evolution of proximate mechanisms underlying behaviour and life-history decisions. In particular we will ask (i) why proximate mechanisms have evolved the way they are built, and (ii) how mechanisms shape adaptive evolution beyond their role as developmental or evolutionary constraints.

The workshop will include lectures by invited speakers and, as a top priority, intensive discussions in small groups consisting of invited speakers, researchers and advanced students.

Invited speakers - Thomas Flatt, University of Lausanne, Switzerland - James Goodson, Indiana University, USA - Ton Grootuis, University of Groningen, Netherlands - Alex Kacelnik < http://www.zoo.ox.ac.uk/people/view/kacelnik_a.htm >, University of Oxford, UK - Kevin Laland, University of St.-Andrews, UK - John McNamara, University of Bristol, UK - Rui Oliveira, Instituto Superior de Psicologia Aplicada, Portugal - G. Sander van Doorn, University of Groningen, Netherlands

The workshop takes place at the Grand-Hôtel 'Kurhaus' in a breathtaking scenery amidst some of the finest mountain peaks of Switzerland. The venue is situated above the picturesque mountain village of Arolla, at 2100 m sea level in the very heart of the Swiss high alps.

For attendance see <http://behav.zoology.unibe.ch/index.php?pp=56&p=139> for further information please contact barbara.taborsky@iee.unibe.ch or g.s.van.doorn@rug.nl

PD Dr. Barbara Taborsky Institute for Ecology and Evolution Behavioural Ecology University of Bern Wohlenstrasse 50A, CH-3032 Hinterkappelen, Switzerland

Tel: +41 31 6319 157, Fax: +41 31 6319 141 <http://behav.zoology.unibe.ch/index.php?pp=57&p=124>
barbara.taborsky@iee.unibe.ch

Barcelona MorphometricsPhylogeny Sep3-6

Registration is open for the course "GEOMETRIC MORPHOMETRICS AND PHYLOGENY- Fourth edition".

INSTRUCTOR: Dr. Chris Klingenberg (University of Manchester, UK) .

DATES: September 3-6, 2013; 30 teaching hours.

PLACE: Els hostalets de Pierola, Barcelona (Spain).

Organized by: Transmitting Science, the Institut Català de Paleontologia Miquel Crusafont and the Council of Hostalets de Pierola.

More information: http://www.transmittingscience.org/gm_and_phylogeny.htm
or writing to courses@transmittingscience.org

This workshop provides an overview of the interface be-

tween geometric morphometrics and phylogenetics. It aims to give an overview of the different approaches and methods that link the two fields and to enable participants to apply them to their own research problems. Lectures that introduce concepts and methods are integrated with demonstrations of software that put them into practice right away. The main emphasis is on mapping shape data on existing phylogenies to reconstruct the evolutionary history of shape diversification, as well as comparative methods that take phylogeny into account. To enhance the practical approach of the workshop, participants are encouraged to bring their own data to conduct analyses and discuss results.

With best regards

Soledad De Esteban-Trivigno-

Soledad De Esteban Trivigno
<soledad.esteban@transmittingscience.org>

LaFouly Switzerland TheoExpEvolution Jun12-15

A workshop on "Bridging theoretical and experimental evolution" will be held in La Fouly (Valais, Switzerland) next June 12-15 2013.

The aim of the proposed workshop is to unite experimental and theoretical evolutionary biologists, both working to resolve fundamental questions at the center of a century-old debate. For example - what is the distribution of fitness effects of new, segregating, and fixed mutations? What is the relative importance of adaptation vs. genetic drift in the evolution of natural populations? By combining expertise across wet and dry lab biology, and due to the progress of new genomic technologies, it is becoming increasingly possible to gain traction on these questions which are fundamental to any basic understanding of the very mode and tempo of the evolutionary process

The workshop will bring together top researchers in the field and students in la Fouly, a remote and beautiful location in the Swiss Alps (see www.lafouly.net), allowing for close interactions and vivid exchanges. The scientific program will consist in 2 1/2 days of a mixture of talks by invited speakers and students, and posters sessions. The workshop will end by a hike to some nearby magnificent view points over the Mont Dolent and Mont-Blanc region.

Invited speakers:

Martin Ackermann (ETH Zurich, Switzerland) Dan Bolon (University of Massachusetts, USA) Michael Desai (Harvard University, USA) Isabel Gordo (Instituto Gulbenkian Ciência, Lisbon, Portugal) Oskar Hallatschek (Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany) Peter Keightley (University of Edinburgh, UK) Alex Wong (Carleton University, Ottawa, Canada)

Cost: 400 CHF for non-CUSO students, including conference fees, meals and accommodation (with sleeping bags).

Web site and registration (max 35 students): <http://biologie.cuso.ch/ecologie-evolution/dpee-activities/-detail-activity/item/courses/bridging-theoretical-and-experimental-evolution/> Note that deadline for registration is April 20th, and that a maximum of 35 students can participate. Whereas the primary target are PhD students, other people can attend, knowing that priority will be given to CUSO members and students presenting talk or poster.

The organizers:

Jeff Jensen Laurent Excoffier Claudia Bank Stephan Peischl

– Laurent Excoffier

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

LakeComoItaly
PhysicsGenomeEvolution
Jun27-Jul5

Registration now open for

Workshop on Statistical Physics / Biology “Quantitative Laws of Genome Evolution” 27 June - 5 July 2013 Lake Como School of Advanced Studies in Complex Systems Villa del Grumello Como, Italy Scholarships will be available on a selection basis Deadline to apply: March 27,

2013 Website: <http://www.complexcomolake.it/-quantitativelaws/index.html> For more information, contact: ev.genome.workshop@gmail.com

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

Sponsors: Centro Volta Lake Como School of Advanced Studies in Complex Systems iPoLS Network F1000 Prime UniverLecco

Confirmed Speakers: Eugene Koonin (NCBS / NIH Bethesda) Luca Peliti (University of Naples) Olivier Tenaillon (Inserm, Paris) Rosalind Allen (University of Edinburgh) Michele Caselle (University of Turin) Francesca Ciccarelli (European Institute of Oncology, Milan) Herve Isambert (Institut Curie, Paris) Joachim Krug (University of Cologne) Michael Laessig (University of Cologne) Amos Maritan (Univ Padua) Sergei Maslov (Brookhaven National Laboratory) Namiko Mitarai (NBI Copenhagen) Erik van Nimwegen (Biozentrum Basel) Peter Pfaffelhuber (University of Freiburg) Uberto Pozzoli (IRCCS Medea) Dominique Schneider (University of Grenoble) Agnese Seminara (University of Nice) Kim Sneppen (University of Copenhagen) Joshua Weitz (GA Tech)

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

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

University of Insubria Committee: Vincenzo Gino Benza, Giulio Casati
jsweitz@gatech.edu

Lisbon ESEB2013 Aug19-24 Drosophila Population Genomics

ESEB 2013 Satellite Workshop: “Creating a European Drosophila Population Genomics Network.”

We would like to invite you to participate in an informal satellite workshop on Drosophila population genomics that will be held during the ESEB 2013 meeting in Lisbon, Portugal (14th Congress of the European Society for Evolutionary Biology, 19-24 August 2013; <https://www.eseb2013.com/>). You can sign up for the workshop on the ESEB congress website; further details on the date and time of the workshop will be posted there as well.

The main goal of the workshop is to explore whether there exist mutual interests among people studying the population genomics of European Drosophila (mainly melanogaster and simulans, but other species might be of interest as well) in initiating a joint, collaborative European network.

This is an extremely exciting time for population genomic studies. The recent advent of powerful next-generation sequencing (NGS) techniques allows us to examine genetic variation at unprecedented scales, at the whole-genome level and with single nucleotide resolution. The continuing technological improvements and the dropping costs of these methods means that even single labs can now generate terabytes of sequence data very rapidly at a relatively low cost. However, the resulting data are typically used to address only a very limited number of specific questions, so that the overall value of these datasets for the community as a whole is somewhat limited. To foster the integration and exchange of population genomic information, we therefore propose that individual European labs build up a joint effort in collecting and generating population genomic data for Drosophila species across Europe.

During the workshop we would like to discuss (1) how to develop a collaborative strategy for sampling different European Drosophila populations through space and time in order to generate a unique European collection of samples for future sequence (and possibly phenotype) analysis; (2) how to best generate high-quality sequence data from such samples; and (3) how to optimally integrate the resulting data and information so that it can be used to answer a wide range of questions. We

would also like to explore potential funding opportunities that could be used to support regular meetings of the network and that would foster scientific exchange and collaboration among the labs involved.

We are looking forward to seeing you in Lisbon!

Best wishes,

Josefa González and Thomas Flatt

—
Josefa González

Ramon y Cajal Researcher

Institute of Evolutionary Biology

CSIC-Universitat Pompeu Fabra

Passeig Maritim de la Barceloneta, 37-49.

08003, Barcelona

Spain

josefa.gonzalez@ibe.upf-csic.es

www.biologiaevolutiva.org/gonzalez_lab

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Website: http://www.unil.ch/dee/page94630_en.html

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

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

Thomas.Flatt@unil.ch

Lisbon Evolution Jul15-19

2ND CALL FOR STUDENTS: 1st International SUMMER School on Evolution

COURSE PROGRAM ONLINE

July 15th - 19th, 2013 | Ciência Viva Knowledge Pavilion, Lisbon, Portugal

Website: <http://evolutionschool.fc.ul.pt/summer>

About the courses

Module 1: EVOLutionary theory

Courses are taught by: Luís Villarreal, Ilya Tëmkin,

Frietsen Galis.

Module 2: sociocultural Evolution

Courses are taught by Fiona Jordan, Marion Blute, Nathalie Gontier & Emanuele Serrelli.

Module 3: philosophy of biology

Courses are taught by Derek Turner, Frédéric Bouchard, Michael Ruse.

All courses are taught at a level accessible to Master, PhD and post-doctoral students in the exact, life, human and sociocultural evolutionary sciences. Students of evolutionary biology, evolutionary developmental biology, virology, paleontology, evolutionary linguistics, evolutionary anthropology, and philosophy of biology will especially benefit from these courses.

Students will be provided a mandatory reading list which will form the basis of lectures and discussions. There are neither examinations nor paper assignments.

REGISTRATION FEE

350 euro for the whole week, regardless the number of courses you chose.

HOW TO ENROLL

You can enroll for a specific module (therefore following a 30-hour course on the subject) or you may choose three courses of your specific interest.

About the SUMMER School

The School is organized by the Applied Evolutionary Epistemology Lab of the Centre for Philosophy of Science of the University of Lisbon, in collaboration with *Ciência Viva* and with the support of the John Templeton Foundation.

SUBSCRIBE TO THE SUMMER SCHOOL MAILING LIST

<http://eepurl.com/n2EGb> Websites

<http://evolutionschool.fc.ul.pt>, <http://appeel.fc.ul.pt>

Find us on Facebook

<https://www.facebook.com/events/374500115949579>

appeelannouncements@fc.ul.pt

academy.nescent.org Where: National Evolutionary Synthesis Center (NESCent), Durham, NC Application review begins: April 15, 2013

Instructors: * Alan R. Lemmon, Florida State University * Emily Moriarty Lemmon, Florida State University * Cecilé Ané, University of Wisconsin-Madison * Jeremy Brown, Louisiana State University * Frank Burbrink, College of Staten Island/ CUNY * Seth Bybee, Brigham Young University * Laura Kubatko, Ohio State University * David Weisrock, University of Kentucky

As part of the NESCent Academy, we are pleased to open applications for 'Next-generation sequencing for phylogenetics and phylogeography'. The fields of phylogenetics and phylogeography are on the cusp of a revolution, enabled by the rapid expansion of genomic resources and explosion of new genome sequencing technologies. Researchers are now able to obtain large phylogenomic data sets for any system rapidly and economically. In this course, students will receive an overview of recent technological advances, learn about data collection using emerging phylogenomic approaches, and analyze data sets using the most recent methods. This course will provide tools for many critical efforts in the field including assembling the Tree of Life, delimiting species, and understanding the processes driving speciation. The intended audience is graduate students, postdoctoral researchers, and faculty who wish to gain training in this area.

Areas to be covered include: * emerging sequencing technologies * targeted high-throughput sequencing approaches, such as anchored phylogenomics, transcriptome sequencing, reduced-representation library sequencing/RAD sequencing, and high-throughput amplicon sequencing * data analysis, including phylogenetic and phylogeographic analysis, and species delimitation.

Questions? Email academy@nescent.org

–

karen.cranston@gmail.com @kcranstn

Karen Cranston <karen.cranston@gmail.com>

NESCent PhylogeneticNGS Jun3-9

Roscoff MarineEvolGenomics Jun3-14 2

Title: Next-gen sequencing for phylogenetics and phylogeography Dates: June 3-9, 2013 Website:

The 9th Summer Course on Marine Evolutionary &

Ecological Genomics will take place at the Station Biologique de Roscoff, Roscoff, France. >From June 3rd - 14th, 2013

Second announcement

Aims: The two week course, which consists of lectures, tutorials and computer based exercises, aims to highlight the crucial role of marine genomics for the understanding of the marine environment and for an efficient use of its resources. The Biological Station is a vibrant research community of 273 scientists and support personnel, and is located in the old town and fishing port of Roscoff, Brittany, France. Advanced PhD students and junior post-docs are encouraged to apply.

The course consists of the following topics. - Phylogeny & tree of life- sequence analyses, phylogenetic techniques (clustering, Bayesian statistics), molecular clock, case studies - Population genetics - structure, connectivity and gene flow, assignment, effective size and population dynamics, case studies - Genomics - next generation sequencing, database searching, basic skills in data handling and bioinformatics - Functional genomics - genome structure, molecular evolution at the functional level - Comparative genomics - whole genome comparisons, concatenated phylogeny, genome organization, annotating genomic information, co-evolution - Environmental genomics - methods for detecting diversity; detecting adaptive variation; NGS: why and how; case studies.

Applications in aquaculture, blue biotech, conservation, fisheries, nutrigenomics and the like will be discussed.

Target group PhD students (at least in their second year) and junior postdocs with a solid knowledge in phylogenetics and/or population genetics. Students with an applied background (e.g. aquaculture, blue biotech, fisheries, nutrigenomics) are encouraged to apply. 18 participants will be selected on the following criteria: 1. Relevance of the course for their PhD or post-doc project 2. Background and experience 3. We aim at training people with different research backgrounds; not more than one person per institute will be considered. We implement a gender policy.

The selected persons will be notified by mid April and will have to confirm attendance within 7 days. There is a waiting list in case of non- confirmations and cancellations.

Teachers Catherine Boyen, SB-Roscoff, FR Melody Clark, BAS, UK Jonas Collén, SB-Roscoff, FR Simon Creer, U Bangor, UK Yves Desvignes, UPMC, Banuyls, FR Jakob Hemmer-Hansen, DTU-Aqua, DK Frederik Leliaert, U Ghent, BE Frédéric Partensky, SB-Roscoff, FR Daniel Vaultot, SB-Roscoff, FR Filip Volck-

aert, KULeuven, BE Mathias Wegner, GEOMAR, Kiel and AWI-Sylt, GE

Organizing committee Jonas Collén, SB-Roscoff, FR Damien Guiffant, SB-Roscoff, FR Matthias Obst, Univ. Gothenburg, SW Jeanine Olsen, Univ Groningen, NL Filip Volckaert, KU Leuven, BE

For information and application please consult <http://meeg2013.sciencesconf.org> . The application deadline is this week Thursday March 28 2013.

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

Roscoff France MarineGenomics Jun3-14 2

Dear colleagues,

Dear students,

Once again, the summer course on Marine Ecological & Environmental Genomics (9th edition) is organized at the Station Biologique de Roscoff (France) on 3th-14th June 2013. As the past year, the Euromarine and MG4U consortia (all FP7 projects) are into partnership with the Station Biologique de Roscoff to support the event.

The course, which will consist of lectures, tutorials and computer based exercises, aims to highlight the crucial role of marine genomics for the understanding of the marine environment and for an efficient use of its resources. Advanced PhD students and junior post-docs are encouraged to apply.

More information and an application form are available at <http://meeg2013.sciencesconf.org> . The deadline for application is March, 28th 2013.

The MEEG2012 organizing committee,

Damien Guiffant (SB-Roscoff, FR)

Jonas Collén (SB-Roscoff, FR)

Filip Volckaert (KU Leuven, BE)

Jeanine Olsen (Univ. Groningen, NL)

Matthias Obst (Univ. Gothenburg, SW)

Matthias Obst, PhD Göteborg University Department of Biological and Environmental Sciences Box 463 SE-405 30 Göteborg Sweden Tel: +46 (0) 317863827 Fax: +46 (0) 31416729 Email: matthias.obst@bioenv.gu.se

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staff/obst_matthias/
<matthias.obst@bioenv.gu.se>

Matthias Obst

Institute in Statistics and Modeling in Infectious Diseases 8-24 July 2013, <http://depts.washington.edu/sismid/> 2nd Summer Institute in Biostatistics 12-16 August 2013, <http://sib.biostat.washington.edu> Conference: 'Impact of Large-Scale Genomic Data on Statistical and Quantitative Genetics' 24-26 November 2013, www.biostat.washington.edu/sqg_conference Bruce Weir <bsweir@uw.edu>

SW Arizona Lepidoptera Aug8-17

2013 Lep Course, SW Arizona

The 2013 Lep course will be held 8 - 17 August, at the SouthWest Research Station (SWRS) in the Chirichahua Mountains in SE Arizona (a 2 1/2 hour drive from Tucson). With its extensive series of Sky-Island mountain ranges, SE Arizona has the highest lepidoptera diversity in the US. With low desert scrub, oak and mixed oak-pine woodland, lush riparian, juniper, Douglas fir, and mountain meadow habitats all within a 40 minute drive from the station, the SWRS is an ideal location from which to sample this diversity (of both habitats and species).

The focus of the lep course is to train graduate students, post-docs, faculty, and serious citizen-scientists in the classification and identification of adult lepidoptera and their larvae. Topics to be covered include an extensive introduction into adult and larval morphology with a focus on taxonomically-important traits, extensive field work on both adults and larvae, collecting and curatorial techniques, genitalic dissection and preparation, larval classification, and general issues in lepidoptera systematics, ecology, and evolution.

At present, the projected staff include Deane Bowers (Colorado), Richard Brown (Mississippi State Univ), Jennifer Bundy (Arizona Western), Chris Grinter (Denver Museum), Eric Metzler (Michigan State), Ray Nagle (Arizona), Sangmi Lee (Arizona State), Bruce Walsh (Arizona), Dave Wagner (Connecticut)

For additional information, see www.lepcourse.org or <http://research.amnh.org/swrs/education/-lepidoptera-course>

jbwalsh@email.arizona.edu

Seattle StatGenetics Summer

18th Summer Institute in Statistical Genetics 8-26 July 2013, <http://sisg.biostat.washington.edu> 5th Summer

Smithsonian Wildlife Conservation Jun1-7

Graduate and Professional Course Non-Invasive Genetic Techniques in Wildlife Conservation June 1-7, 2013 Smithsonian-Mason School of Conservation At the Smithsonian Conservation Biology Institute, Front Royal, VA, USA Visit <http://SMconservation.gmu.edu> or contact SCBItraining@si.edu for more information.

This course is an introduction for graduate students and professionals to the applications, benefits, and drawbacks of non-invasive genetic techniques to wildlife conservation. The course will concentrate on the use of non-invasive techniques to answer questions in animal behavior, population biology, and population management, with a particular focus on the conservation of mammalian populations. Participants gain hands-on experience with all stages of a research project utilizing modern non-invasive methods by working with expert researchers through a combination of field, laboratory and computer-based modules.

Throughout the course participants work through a directed research project, progressing from study design through field data collection, sampling protocols, and DNA extraction and amplification, to analysis of microsatellite and sequence data using the most effective and accessible software packages. The course focuses on relatedness, population size estimation and population dynamics; additional lectures address genotype reliability, research applications for ancient DNA, and applications of next-generation pyrosequencing.

Many of these groundbreaking non-invasive genetic techniques were initially developed at the Smithsonian's National Zoo and its Center for Conservation and Evolutionary Genetics (CCEG). Course instructors include scientists from CCEG (Drs. Jesus Maldonado and Rob Fleischer) and George Mason University (Dr. Christine Bozarth) and several expert visiting instructors including Drs. Mike Schwartz, Elizabeth Archie, and Lori Eg-

gert. While most instruction takes place in Front Royal at the newly opened facilities of the Smithsonian-Mason School of Conservation, the course also includes laboratory work at the National Zoo's new state-of-the-art genetics lab in Washington, DC.

The total course fee, which includes instruction and course materials, food, shared lodging, and transport to/from Washington-Dulles International Airport (IAD) is \$2,142. All other travel costs and incidental expenses are the participant's responsibility. Participants earn Continuing Education Units; graduate course credit (2) is available for qualified applicants through George Mason University at an additional fee. Participants should have previously completed a college-level genetics and basic ecology/evolution course. For first consideration, apply before February 23, 2013. This course has been full during all previous offerings, so you are encouraged to apply early.

Additional Upcoming Courses:

For more information on each of these, see: <http://SMconservation.gmu.edu> * Species Monitoring & Conservation: Terrestrial Mammals (April 29-May 10, 2013) - spaces still available, must apply now!

* Species Monitoring & Conservation: Reptiles (May 13-24, 2013) - spaces still available, must apply now!

* Adaptive Management for Conservation Success (June 10-21, 2013) * Conservation for Development Professionals: Strategies for implementing Biodiversity Action Plans for the private sector (June 17-21, 2013) * Ecology and Conservation of Migratory Birds (September 9-20, 2013) * Spatial Ecology: Geospatial Analysis and Remote Sensing for Conservation (September 30-October 11, 2013) * Conservation Breeding Centers for Wildlife Sustainability (October 7-14, 2013) * Applied Climate Change: Gaining Practical Skills for Climate Adaptation (October 21-November 1, 2013)

"Kolowski, Joseph" <kolowskij@si.edu>

Snowbird Utah SSBPhylogenetics Jun21

Society of Systematic Biologists Workshop:

SSB Members - here is your chance to learn from some of the best and brightest in the Society of Systematic Biologists. All SSB members are invited to attend the inaugural Society of Systematic Biologists Workshop,

which will be held on Friday June 21, 2013 between 1:00 and 5:00 at the site of the 2013 Evolution Annual Meeting. This workshop is open only to members of SSB, so be sure to renew your membership today!

Speakers will include:

Joe Felsenstein (Phylogeny & model-based molecular phylogenetics) John Huelsenbeck (Mr Bayes & Bayesian phylogenetics) Brant Faircloth (Next Generation Sequencing for Phylogenetics) Jeet Sukumaran (Bioinformatics and phylogenetics) Peter Beerli (Migrate-n and phylogeography)

There will be a short reception following the workshop - this will be the place to meet society members and discuss phylogenetic and phylogeographic methods.

Please contact Bryan Carstens <carstens dot 12 at osu dot edu> with questions.

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: <http://carstenslab.org.ohio-state.edu/> web: <https://sites.google.com/site/bryancarstens/> skype: bryan.carstens office: 614.292.6587 cell: 734.474.8527

Bryan Carstens <bryan.c.carstens@gmail.com>

Stanford Biodemography May6-8

What: Workshop Announcement: Call for Applications
When: Stanford Workshop on Biodemography - May 6-8, 2013
Where: Stanford Institute for Research in the Social Sciences

The Stanford Centers for Population Research and the Demography and Economics of Health & Aging announce a workshop on Biodemography. This year's topics include: mortality disparity (patterns, causes, change); genes and aging (expression data, GWAS and SNPS, EWAS); quantitative traits, environments and variation; and evolutionary data and theory. Faculty in attendance will include Shripad Tujlapurkar (Stanford), Hal Caswell (WHOI) and Carol Horvitz (Miami), among others.

Applications for this 3-day workshop are invited from advanced students, postdocs and junior faculty. We provide materials and meals at the workshop. Students are expected to arrange for their own travel. A limited number of scholarships are available to help pay

for lodging and/or travel.

To apply for the workshop, please email your CV and a short statement of research interest by Friday, March 22, 2013, to Neesha Joseph (neesha.joseph@stanford.edu). To apply for a scholarship, specify whether you are requesting support for travel, lodging or both and include a recommendation letter from your faculty advisor.

Sponsors: National Institute on Aging, Stanford's Institute for Research in the Social Sciences, Stanford's Center for Population Research, Stanford's Center on the Demography and Economics of Health and Aging, and the Center on the Economics and Demography of Aging at the University of California, Berkeley.

Neesha Joseph <neesha.joseph@stanford.edu>

WageningenU SocialEvolution May13

Registration for the course and symposium on social genetic effects is now open!

This is a symposium and course announcement. Please forward this email to colleagues that might be interested. Apologies for the double postings.

Symposium: Genetics of social life: Agriculture meets evolutionary biology

On the 13th of May 2013, the Animal Breeding and Genomics Centre of Wageningen University organizes a symposium on social genetic effects.

Keynote speakers:

- Alastair Wilson V Centre for Ecology and Conservation, University of Exeter, United Kingdom
- Hannah Dugdale - Department of Animal and Plant Sciences, University of Sheffield, United Kingdom
- Jason Wolf V Department of Biology & Biochemistry, University of Bath, United Kingdom
- Laurent Keller V Department of Ecology and Evolution, University of Lausanne, Switzerland
- Piter Bijma V Animal Breeding and Genomics Centre, Wageningen University, the Netherlands

Location: Hotel de Nieuwe Wereld, Marijkeweg 5, 6709 PE Wageningen, The Netherlands

Date: May 13 2013

Fee: Free

Registration: Send an email to fleur.bartels@wur.nl. At registration, provide your name, department, company, and if you have diet restrictions. Deadline for registration is May 3 2013.

Information about the symposium can be found here (http://www.wias.nl/courses/view_course.php?ID=-227).

Course: Social genetic effects: Theory and genetic analysis

>From May 14 until May 16 2013, the Animal Breeding and Genomics Centre of Wageningen University organizes a course on social genetic effects.

Aim: The course focusses on the theory and genetic analysis of social effects (Indirect Genetic Effects). Throughout the course the aim will be to learn useful approaches and strategies for analysing your own data. Data analysis exercises will be carried out by participants using ASReml. You can bring your own data.

Teacher:

- Piter Bijma, Animal Breeding and Genomics Centre, Wageningen University, the Netherlands.

Target audience: The course is designed for PhD students, postdoctoral fellows, academic and company researchers interested in social effects in plant, natural or livestock populations. Basic knowledge in quantitative or statistical genetics is desired, but not compulsory.

Outline:

Day 1

- Trait-models with Indirect Genetic Effects (IGE; also known as associative effects, social effects or competition effects)

Day 2

- Consequences of IGEs for heritable variation and response to selection. Specific attention will be given to kin and group selection, and an overview of empirical results obtained with different selection methods will be given. Models with IGEs on fitness will also be covered briefly

- Dinner

Day 3

- The estimation of genetic parameters and breeding values for direct and indirect genetic effects will be covered, using mixed model methods. Approximately half of the time will be spent on lectures and half of the time on computer practical using exercises and/or your

own data. Please bring your own laptop with ASReml. Please let us know if you have no ASReml licence.

Course Fee1 : A. WIAS PhD's2 £á 300.00 B. Other PhD's, post-docs, academia and WU staff £á 400.00 C. Industry £á 500.00

1Fee include course materials, daily coffee, tea and lunch, and a course dinner. Hotel accommodation and traveling is not included. 2For Wias PhD students with an approved TSP WIAS pays the fee.

Location: Hof van Wageningen, Lawickse Allee 9, 6701 AN Wageningen, the Netherlands.

Registration: Use the register button on the website (http://www.wias.nl/courses/view_course.php?ID=226). The number of participants is limited to 50 persons, admitted on a first-come basis. Registration is final after payment of the registration fee. You will receive an invoice containing all payment details.

Dates: May 14 V 16, 2013 The course will start on Tuesday May 14 at 9:00 am. The course will end at 5.00 pm on Thursday 16th of May.

Deadline: Final registration: April 19 2013

Final cancellation: April 19 2013

Cancellation: Cancellations must be notified by e-mail to Dr. E.D. Ellen. If received before 19th of April, no fees have to be paid. Full fees have to be paid (no refunds will be made) after April 19.

Information about the course and hotel accommodation can be found here (http://www.wias.nl/courses/view_course.php?ID=226).

Symposium and Course Organisation: Esther Ellen (Esther.Ellen@wur.nl) and Fleur Bartels (Fleur.Bartels@wur.nl)

Dr. Esther D. Ellen Postdoc

Animal Breeding and Genomics Centre, Wageningen UR (University & Research Centre)

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

Workshop on Molecular Evolution at the Marine Biological Laboratory at Woods Hole

Directors: David Hillis < <http://www.biosci.utexas.edu/IB/faculty/hillis.htm> >, University of Texas, Austin; and Mitchell L. Sogin < <http://jbpc.mbl.edu/labs-msogin.html> >, MBL

Course Date: July 21 V July 31, 2013

Online Application Form < <http://ws2.mbl.edu/studentapp/studentapp.asp?courseID=MOLE> > Deadline: April 9, 2013 at <http://ws2.mbl.edu/studentapp/studentapp.asp?courseID=MOLE> The Workshop on Molecular Evolution at Woods Hole presents a series of lectures, discussions, and bioinformatic exercises that span contemporary topics in molecular evolution. Since its inception in 1988, the workshop has encouraged the exchange of ideas between leading theoreticians, software developers and workshop participants. The workshop serves graduate students, postdoctoral students and established faculty from around the world. The 2012 Workshop will use computer packages including AWTY, BEAST, BEST, Clustal W/X, FASTA, FigTree, GARLI, MIGRATE, LAMARC, MAFFT, MP-EST, MrBayes, PAML, PAUP*, PHYLIP, STEM, STEM-hy, and SeaView to address the topics:

* Phylogenetic analysis: theoretical, mathematical and statistical bases; sampling properties of sequence data; Maximum likelihood theory and practice; Bayesian analysis; hypothesis testing * Population genetics analysis using coalescence theory; maximum likelihood and Bayesian estimation of population genetic parameters * Databases and sequence matching: database searching; protein sequence versus protein structure; homology; mathematical, statistical, and theoretical aspects of sequence database searches; multiple alignment * Molecular evolution integrated at organism and higher levels: population biology; biogeography; ecology; systematics and conservation * Molecular evolution and development: gene duplication and divergence; gene family organization; coordinated expression in evolution * Comparative genomics: genome content; genome structure; genome evolution * Molecular evolution integrated at lower levels: biochemistry; cell biology; physiology; relationship of genotype to phenotype

Students, postdocs, faculty, and others working on molecular evolution are all welcome to apply.

“Hillis, David” <dhillis@austin.utexas.edu>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email `evoldir@evol.biology.McMaster.CA`. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.