E v o l D i r

October 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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Conferences

BangaloreIndia PopGen Feb15-24

Dear Colleagues,

We are happy to announce the ICTS Program 'School and Discussion Meeting on Population Genetics and Evolution' (http://www.icts.res.in/program/all/details/344/). This school aims to expose students and researchers from diverse backgrounds to the basics and the forefront of current research in population genetics. In addition to evolutionary biology students, we welcome students of mathematics, statistics, medicine, and physics who are interested in evolutionary theory. There is no registration fee for participating in this program.

Dates: Feb 15-Feb 24, 2014

Venue: ICTS-TIFR, IISc campus, Bangalore, India

Application deadline: Oct 13, 2013 (http://www.icts.res.in/program/all/apply_tab/344/)

School lecturers:

Brian Charlesworth, University of Edinburgh, UK Deborah Charlesworth, University of Edinburgh, UK Michael Desai, Harvard University, USA John Novembre, University of Chicago, USA Lindi M. Wahl, University of Western Ontario, Canada Michael Whitlock, University of British Columbia, Canada

Discussion meeting speakers:

Deepa Agashe, NCBS, Bangalore Hiroshi Akashi, National Institute of Genetics, Japan Christina Burch, University of North Carolina, USA Narendra Dixit, IISc, Bangalore Richard Gomulkiewicz, Washington State University, USA Dharmarajan Guha, IISER Kolkata Kavita Jain, JNCASR, Bangalore Amitabh Joshi, JNCASR, Bangalore Yuseob Kim, Ewha Womans University, Seoul, Korea Krushnamugh Kunte, NCBS, Bangalore Uma Ramakrishnan, NCBS, Bangalore Bashisth Narayan Singh, Banaras Hindu University K. Thangaraj, CCMB Hyderabad David Waxman, Fudan University, Shanghai, China

Organisers: Deepa Agashe (NCBS), Kavita Jain (JNCASR)

Please contact us at: popgen2014@icts.res.in

jain@jncasr.ac.in

Beijing PlantConservation Sep23-25

Sencond Announcement

*International Symposium of Plant Diversity and Con-

servation in China*

*and Ceremony of Flora of China± Project Completion***

23rd - 25th September, 2013

* Beijing, China*

Objectives

Along with the completion of the *Flora of China* project, the research and conservation upon Chinese plant diversity confront tremendous challenges and opportunities at the present time ?C the post-flora era. This symposium aims at providing an opportunity for plant taxonomists and systematists to review the progress, evaluate the current status, and look into the future of the field. China hosts enormous plant diversity that has supported its long history and continuous advancement in studying plant taxonomy. With especially rapid progress made during the recent years, the year 2013 comes to be the time for China to invite colleagues from the world to discuss the new frontiers of plant diversity and taxonomy. This would provide an ideal forum for Chinese and international botanists to present research results, exchange ideas, discuss common interests, develop collaborations and move the field of plant diversity research forward.

Theme and Topics

1) Plant diversity in China

2) Plant diversity Conservation

3) Plant taxonomy in the post-flora era

Members of Academic committee

Peter RAVEN (Missouri Botanical Garden, USA)

HONG De-Yuan (Institute of Botany, CAS, China)

Stephen BLACKMORE (Royal Botanical Garden Edinburgh, UK)

Ihsan AI-SHEHBAZ (Missouri Botanical Garden, USA)

Bruce BARTHOLOMEW (California Academy of Sciences, USA)

David BOUFFORD (Harvard University, USA)

GE Song (Institute of Botany, CAS, China)

GU Hong-Ya (Peking University, China)

HUANG Hong-Wen (South China Botanical Garden, CAS, China)

LI De-Zhu (Kunming Institute of Botany, CAS, China)

SUN Hang (Kunming Institute of Botany, CAS, China?)

Libing ZHANG (Missouri Botanical Garden, USA)

Members of Organization Committee

FANG Jing-Yun (Institute of Botany, CAS, China)

ZHANG Li-Xin (Institute of Botany, CAS, China)

WANG Xiao-Quan (Institute of Botany, CAS, China)

LENG Jing (Institute of Botany, CAS, China)

FENG Min (Institute of Botany, CAS, China)

ZHANG Hong-Yao (Institute of Botany, CAS, China)

GONG Xiao-Lin (Institute of Botany, CAS, China)

Brief Agenda

22th September: Registration£Fragrant Hill Empark Hotel£©

23th September: Invited presentation and Ceremony

24-25th September: Post-symposium excursion

Organizers

Institute of Botany, Chinese Academy of Sciences

Flora of China Editorial Committee

State Key Laboratory of Systematic and Evolutionary Botany, CAS

Language

The symposium working language is English.

Contact information

GONG Xiao-lin, e-mail: gongxl@ibcas.ac.cn

FENG Min, e-mail: fengmin@ibcas.ac.cn

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Contact Information Card

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15011336518

Hotel information

Fragrant Hill Empark Hotel

No.59 North Zhenhuangqi, Haidian District, Beijing 100093, China

Tel£o86-10-59898888 Fax£o86-10-62595959

Please check the details (map and photo) by the linkages below:

http://english.ctrip.com/hotels/beijing-hotel-map-19453/fragrant-hill-empark-hotel http://-empark.com.cn/fragranthill/ * *

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Conference program

*I. **International Symposium of Plant Diversity and Conservation in China** *

Date: September 23th, 2013.

Location: Lecture Hall, Fragrant Hill Empark Hotel

*Agenda *

8:30 am: Opening remarks

Part 1 Chair: Dr. Ihsan AI-SHEHBAZ

8:45?C9:15 am: Stephen BLACKMORE: The Plants of China ?C A Companion to the Flora of China.

9:15?C9:45 am: Li-Bing ZHANG & Mike GILBERT: Overview of Plants of China.

9:45?C10:15 am: Jun WEN: Disjunct Distribution of Plants between East Asia and North America.

10:15?C10:30 am: Tea break & group Photo shooting.

Part 2 Chair: Prof. GU Hong-Ya

10:30?C11:00 am: HONG De-Yuan: An Integrative Approach to Plant Taxonomy.

11:00?C11:30 am: SUN Hang: Great Diversity of Floristic Elements in China and Its Origination.

11:30?C12:00 am: WANG Xiao-Quan: Comparative Phylogeography of Plants in Qinghai-Tibetan Plateau and Other Regions: Implications for Development of Flora of China.

Part 3 Chair: Dr. David BOUFFORD

1:30?C2:00 pm: QIN Hai-Ning: Red List of Higher Plants and Conservation Strategies in China.

2:00?C2:30 pm: HUANG Hong-Wen: BGS Living Collections: Historic Introduction & Domestication and Contemporary Ex situ Conservation.

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Berkeley PopulationGenomics Oct5 FREERegistration

Announcement: FREE REGISTRATION - BAPG IX, Berkeley, CA

Announcing the 9th Bay Area Population Genomics conference: http://cteg.berkeley.edu/˜nielsen/-resources/bapg-ix/ . Registration is again FREE and includes coffee breaks and lunch, and made possible by the generous contributions of www.ancestry.com . Saturday Oct 5, 2013 UC Berkeley, Stanley Hall, Rm 105

We are pleased to announce our Keynote Speaker: Dr. Hideki Innan< http://www.sendou.soken.ac.jp/-esb/innan/InnanLab/ >

Thank you!!

Best, Melissa Wilson Sayres

Melissa A. Wilson Sayres, PhD Miller Fellow University of California, Berkeley

“Melissa A. Wilson Sayres” <mwilsonsayres@gmail.com>

Birmingham DaphniaGenomics

ANNOUNCEMENT: DGC 2014 Birmingham UK Registration now open! http://www.birmingham.ac.uk/-dgc Dear colleagues,

We are pleased to invite you to the Daphnia Genomics Consortium (DGC)< https://wiki.cgb.indiana.edu/-display/DGC/Home > meeting 2014, held at the University of Birmingham, UK. This years meeting will focus on combining the old and the new, from phenotypic variation, quantitative genetics and basic aquatic ecology and limnology, to novel techniques in bioinformatics, metabolomics and sequencing, epigenetics, eco-devo

and functional and evolutionary genomics. The emphasis of the DGC 2014 meeting will be on establishing and identifying our next main DGC-wide research pursuits. We also celebrate the launch of our BGI-Birmingham genome centre< http://www.genomics.cn/en/news/-show_news?nid=99162 > and the Daphnia stock centre, devoted in part to our consortium's activities. Ultimately, this meeting should provide unique opportunities for early career researchers to showcase their work and discuss world-class research!

dgc.birmingham@gmail.com

Nadine Taylor <n.s.taylor@bham.ac.uk>

Bogota UniAndes Biogeography Jan7-10

Dear Colleagues,

We are pleased to announce the Third Meeting of the Network for Neotropical Biogeography (NNB3) that will take place at the Universidad de los Andes in Bogotá, Colombia, on January 7–10, 2014. The theme of the meeting will be âSpace, Time, Form and Genes.' The event includes pre-meeting workshops (Jan. 7–8) and optional post-meeting field trips to unique Colombian habitats.

Please visit the conference website http://-nnb3.uniandes.edu.co< http://nnb3.uniandes.edu.co/ > for updated information or contact nnb3@uniandes.edu.co<mailto:nnb3@uniandes.edu.co>.

The Network for Neotropical Biogeography (http:/-/nnb.myspecies.info< http://nnb.myspecies.info/ >) promotes scientific interactions across disciplines and taxa with the following goals: - Promote scientific interaction - Stimulate the exchange of material, students and researchers - Increase inter-disciplinarity between different fields - Discuss and plan joint projects and grant applications - Stimulate collaborative fieldwork and reciprocal help with field collection of research material - Inform on upcoming events, recent papers and other relevant material

The NNB was established during a symposium at the BioSystematics conference in Berlin in February 2011. A second meeting, with the theme âIntegrating Neotropical Research,' was held at the Montgomery Botanical Center, Coral Gables, Miami, Florida, USA, on January 14th, 2013 immediately following the 6th Biennial meeting of the International Biogeography Society.

Tropical America - the Neotropics - is the most species-rich region on Earth. Understanding the mechanisms underlying the historical assembly and evolution of this extreme biodiversity constitutes a major challenge in biology, and will require hitherto unrealized interdisciplinary scientific collaboration.

We look forward to seeing you in Bogotá!

Organising committee: Santiago Madriñán Andrew J. Crawford Carlos D. Cadena Emilio Realpe James E. Richardson Juán Armando Sánchez Pablo R. Stevenson

Departamento de Ciencias Biológicas Universidad de los Andes CL 18-2 68 Bogotá, D.C., 111711 COLOMBIA

Network Of Neotropical Biogeography <nnb3@uniandes.edu.co>

ColdSpringHarbor MobileDNA Oct24-26 ExtDeadline

Regional Meeting on Mobile Genetic Elements at CSHL - Extended Deadline October 1

Dear Colleagues,

We have extended the registration deadline for the October 24-26 regional meeting on Mobile Genetic Elements in Cold Spring Harbor to October 1, 2013, following requests to accommodate additional participants. Registration and abstract submission will remain open at http://meetings.cshl.org/meetings/-2013/transpose13.shtml until then. Talk/poster status will be determined after October 1.

All transposon-related research in all systems is welcome, including the evolutionary history of transposable elements in different systems and the impact of transposons on genome function and evolution. We hope for an interactive and informal meeting, and encourage active participation, providing young scientists the opportunity to present their work, and all participants to discuss the emerging trends.

We look forward to a very stimulating meeting!

Rob Martienssen and Irina Arkhipova, organizers Kate Creasey, co-organizer

iarkhipova@mbl.edu

CornellU PopulationGenetics July10-12

Dear Colleagues,

You are invited to attend a symposium entitled "Principals in Population Genetics: A coalescence of community to celebrate Andy Clark." This symposium will be held July 10-12, 2014 at Cornell University in Ithaca, NY. More information can be found at www.andyfest.org . Confirmed speakers include:

Chip Aquadro Doris Bachtrog Carlos Bustamante Manolis Dermitzakis Marc Feldman Dan Hartl John Lis Sarah Tishkoff Mariana Wolfner

We are hopeful that many of Andy's friends, colleagues and current and former lab members participate in this event, so please circulate this announcement and encourage your colleagues to attend! We would appreciate it if you could register a response on this form indicating how likely it is that you will be able to attend: https://docs.google.com/forms/d/1Tzs-BfTxfUINkzT6Im-GpuRekGeAflKiFYX6sxUyDJU/-viewform . If you have any questions or suggestions, feel free to contact either Nadia Singh (ndsingh@ncsu.edu) or Brian Lazzaro (bplazzaro@cornell.edu). We hope to see you in Ithaca next summer!

Sincerely,

Nadia Singh and Brian Lazzaro

ndsingh@ncsu.edu

EastCarolinaU BiodiversityClimateChange Mar14-15

The Center for Biodiversity and the Department of Biology at East Carolina University would like to invite you to attend and participate in a symposium entitled "Biodiversity responses to climate change: perspectives from the southeastern US" that is scheduled to take place on March 14 and 15, 2014 at East Carolina University in Greenville, NC. Our goals are to advance our collective understanding of how biodiversity is responding to climate change in the southeastern US and more broadly to provide a general framework that could guide researchers, managers and policy makers in other regions to enhance their understanding of how climate change may affect biodiversity in their regions. The symposium will feature 12 invited lectures, poster presentations, and open discussion. Our speakers and the tentative titles for their lectures are provided below. More information about the symposium can be found athttp://www.ecu.edu/biology/ncbiodiversity/ .If you would like to present a research poster on biodiversity in the southeastern US or to attend the symposium, please register at http://www.ecu.edu/cs-cas/biology/-ncbiodiversity/upload/symposium-registration.docx .Limited lodging support for students presenting posters is available and students can make requests for this support on the registration form.

Speakers and tentative titles

Terry Root (Stanford University): Changing Climate: Changing Species

Ryan Boyles (North Carolina State University): Future climates for the southeastern US

Jim Clark (Duke University): Forest response to climate change in the Southeast: perspectives on the Piedmont and southern Appalachians

Ray Semlitsch (University of Missouri): Abundance, diversity, and disturbance relationships: examples from pond-breeding amphibians

Bob Christian (East Carolina University): Ecogeomorphological links between climate change and biodiversity in coastal wetlands

Joel Kingsolver (University of North Carolina-Chapel Hill): Ecological and evolutionary responses of insects to climate changes: are means or extremes more important?

Allen Hurlbert (University of North Carolina - Chapel Hill): The consequences of climate change for avian biodiversity and migration

Ellen Damschen (University of Wisconsin- Madison): How complex landscapes shape plant movement and persistence in a changing climate

Brian Silliman (Duke University): Food webs, climate change and new theory in ecology.

Erik Sotka (College of Charleston): Adaptation to warming estuaries of the northwestern Atlantic: an evolutionary perspective

Rob Dunn (North Carolina State University): Dead trees and stinging ants. The future of the South in a warming and less predictable world

Reed Noss (University of Central Florida) & Joshua Reece (Valdosta State University): Climate change and biodiversity in Florida: long-term and short-term concerns

Sincerely, Center for Biodiversity Symposium Committee - Marcelo Ardón, David Chalcraft (Committee Chair), Trip Lamb and Mike McCoy

CHALCRAFTD@ecu.edu

Herakleion Crete MarineBiodiversity Oct7-9

Conference: *"Mediterranean marine biodiversity in view of climate change and the invasion of alien species"

Heraklion, Crete, Greece

7^th to 9^th of October, 2013

We are pleased to announce that Abstract submission deadline has been extended until 15 September.

The conference will be held at the Heraklion Chamber which is in the center of Heraklion City, behind the Lions Square, Koroneou str. 9,

and details can be downloaded from http://-conference2013.marbigen.org/index.html Abstract submission and early registration deadlines are set for:

Abstracts Submission Deadline *15****September 2013* Early Registration Deadline *15 September 2013*

We look forward to welcoming you in Heraklion, Crete for a scientifically stimulating and socially enjoyable meeting.

With best regards,

On behalf of the Organizing Committee

Dr. Antonios Magoulas

Dr. Antoniou Aglaia (Cilia) Institute of Marine Biology and Genetics (IMBG) Hellenic Centre for Marine Research (HCMR) Gournes Pediados, P.O.Box 2214, 71003, Iraklio, Crete, Greece Tel.: +30 2810 337826 Fax: +30 2810 337820

Cilia Antoniou <antoniou@hcmr.gr>

Honolulu MarinePopulations

The deadline for abstract submission is Oct 4, and we'd like to reach a broad array of people. Many thanks.

Dear All, We invite you to consider submitting abstracts to a session on connectivity in marine populations at the upcoming 2014 Ocean Sciences Meeting in Honolulu. This session is meant to bring together researchers working on a range of different organisms and using various methods to examine connectivity among populations in marine habitats. Abstract submission deadline is Oct 4 (http://www.sgmeet.com/osm2014/-default.asp), more info below.

032 - Examining connectivity in marine populations, from unicells to metazoans, using novel and integrated approaches

Connectivity among populations influences their demographics, genetic structure and response to environmental change. Despite the ecological and evolutionary importance of connectivity among populations, our understanding remains limited, in part due to the difficulty of measuring connectivity in marine habitats. New tools for studying connectivity are emerging, including compound-specific stable isotope analyses, advances in geo-location, highly-variable genetic markers, population genomic techniques and coupled bio-physical dispersal models. As measurements of connectivity become more sophisticated, there is a greater need for integration of techniques in order to deepen our understanding of the ecological and evolutionary consequences of connectivity. This session focuses on new insights that have been gained from integrating multiple approaches, the development of new techniques to quantify rates of dispersal and exchange among populations, and attempts to identify unifying themes of connectivity and gene flow across taxa. The session will address taxa ranging from bacteria to whales, and include a wide range of spatial and temporal scales. We encourage submissions that communicate results from empirical, modeling, or integrative studies to a broad audience and that describe basic research or its application to support sustainability of exploited resources.

Organizers:

Tatiana Rynearson , Graduate School of Oceanography, University of Rhode Island rynearson@mail.uri.edu

Benjamin Walther , University of Texas at Austin

bwalther@utexas.edu

Erica Goetze , Department of Oceanography, SOEST, University of Hawaii at Manoa egoetze@hawaii.edu

Derek Hogan , Department of Life Sciences, Texas A&M University- Corpus Christi james.hogan@tamucc.edu

Erica Goetze Department of Oceanography University of Hawaii at Manoa 1000 Pope Road, MSB634 Honolulu, HI 96822

Erica Goetze <egoetze@hawaii.edu>

KansasCity EcoGenomics Nov1-3

Subject: REGISTRATION NOW OPEN! Ecological Genomics Symposium, Kansas City, 11/1-3/2013

11th Annual Ecological Genomics Symposium November 1-3, 2013 Marriott Country Club Plaza, Kansas City, MO Symposium website: http://ecogen.ksu.edu/-symp2013 The 11th Annual Ecological Genomics Symposium will be held November 1-3, 2013 at the Marriott Country Club Plaza hotel in downtown Kansas City. The meeting will convene Friday at 7:00 p.m. and conclude on Sunday at noon.

We have an outstanding lineup of speakers for the 2013 symposium and we encourage you to attend!

For a brochure and complete information regarding poster abstract submission, registration and hotel reservations, please visit our symposium website: ecogen.ksu.edu/symp2013.

REGISTRATION: Please register online today at: www.ecogen.ksu.edu/symp2013. You may also register to attend the optional Saturday night banquet for an additional fee of $50. Deadline for registration: Friday, October 4, 2013.

POSTER ABSTRACTS: Poster topics should be related to the field of ecological genomics. A LIMITED NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: http://ecogen.ksu.edu/symp2013/-abstract.html. DEADLINE: Friday, October 4, 2013.

VENUE: The symposium will take place at the Kansas City Marriott on the beautiful Country Club Plaza in Kansas City, Missouri. Reserve your hotel room online by visitingecogen.ksu.edu/symp2013 or this link: http://tinyurl.com/me8l5x2 Deadline for room block: Friday, October 11, 2013.

FEATURED SPEAKERS:

Anne Bronikowski, Iowa State University Comparative genomics of vertebrate aging and stress-response pathways

Asher Cutter, University of Toronto Hyperdiversity and hypodiversity in genome evolution of Caenorhabditis nematodes

Ana L. Caicedo, University of Massachusetts Amherst Convergence and the evolution of weediness: The case for red rice

Rob Knight, University of Colorado The Earth Microbiome Project

Marcus Kronforst, University of Chicago Population genomics and ecological speciation in Heliconius butterflies

Bradley J.S.C. Olson, Kansas State University Peering into the pond for clues to multicellularity

Michael Pfrender, University of Notre Dame Genetic and regulatory basis of adaptation in stressful environments

Jeffrey Ross-Ibarra, University of California Davis Evolutionary genetics of highland adaptation in maize and teosinte

Annelie Wendeberg, Helmholtz Centre for Environmental Research TBD

Andrew Whitehead, University of California Davis The genomics of evolved resistance and resilience in killifish resident in dynamic and static environments

ADDITIONAL INFORMATION will be posted on our website, www.ecogen.ksu.edu/symp2013, as details are finalized.

FUNDING for this symposium is provided by Kansas State University.

Ecological Genomics Institute Directors: Dr. Loretta Johnson, johnson@ksu.edu Dr. Michael Herman, mherman@ksu.edu Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901 ecogen.ksu.edu

Michael Herman <mherman@ksu.edu>

Lyon Recomb Oct17-19

Dear colleagues,

We have extended to Sept. 21th our early bird registration deadline to the RECOMB satellite meeting on Comparative Genomics. It will be held in the beautiful city of Lyon from October 17th to 19th.

During this meeting, you'll be listening to 19 short talks and 6 invited speakers (Tal Dagan, Kay Pruefer, France Denud, Ludovic Orlando, Nicolas Galier and Laurent Duret.)

In addition, it is still time to propose a poster and try to win a "best poster award".

Please visit: http://rcg2013.sciencesconf.org/ We are looking forward to meeting you in Lyon.

Fred Brunet

Frederic Brunet Ph.D.

Fish evolutionary genomics Institut de Genomique Fonctionnelle de Lyon Ecole Normale Superieure de Lyon 46, allee d'Italie F-69364 LYON Cedex 07 France

33 (0)4 26 73 13 24 frederic.brunet@ens-lyon.fr

Please visit: 11th RECOMB - Comparative Genomics 2013 in Lyon (France) http://-rcg2013.sciencesconf.org/ frederic.brunet@ens-lyon.fr

Marseilles 18thEBM Sep16-19

The 18th evolutionary biology meeting at Marseilles will take place from September 16 to September 19 in 2014 http://sites.univ-provence.fr/evol-cgr/ best regards Pierre

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

NHM London YoungSystematists Nov29

15th YOUNG SYSTEMATISTS FORUM Systematics Association conference Friday 29 November 2013, 9 am

Venue: Flett Lecture Theatre, Natural History Museum, London, UK

The annual Young Systematists Forum represents an exciting setting for Masters, PhD and young postdoctoral researchers to present their data, often for the first time, to a scientific audience interested in taxonomy, systematics and phylogenetics. This well-established event provides an important opportunity for budding systematists to discuss their research in front of their peers within a supportive environment. Supervisors and other established systematists are also encouraged to attend.

Prizes will be awarded for the most promising oral and poster presentation as judged by a small panel on the day.

Registration is FREE. Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-participating attendees are also very welcome - please register as above.

Abstracts must be submitted by e-mail in English no later than Friday 18 October 2013. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text. Institutional addresses should be given for all authors.

All registered attendants will receive further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

Dr Ellinor MICHEL Department of Life Sciences The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5516

http://nhm.academia.edu/EllinorMichel
www.researchgate.net/profile/Ellinor_Michel Ellinor Michel <e.michel@nhm.ac.uk>

PuertoRico SMBE Jun8-12 CallSymposia

Dear Colleague,

The Society for Molecular Biology & Evolution is now accepting proposals for symposium topics for the 2014 Annual Meeting, taking place in San Juan Puerto Rico, June 8th V 12th 2014.

To submit your proposal please follow the instructions below and fill out the word document template (http://-/smbe.org/annual/2014/). Return your completed submission to smbe2014@mci-group.com byFriday October 25th 2013. The subject line should read: Symposium Submission.

Successful applications will be confirmed by November 1st 2013 and a call for abstracts will follow.

Should you require any further information please contact the meeting secretariat at smbe2014@mci-group.com

We hope to see you all in Puerto Rico!

Kind regards,

Taras K Oleksyk President of the Local Organizing Committee, University of Puerto Rico at Mayaguez

and

Joanne Stout SMBE 2014 Meeting Secretariat on behalf of SMBE 2014 Local Organizing Committee Website: www.smbe.org/annual/2014 Email: smbe2014@mci-group.com

CALL FOR SYMPOSIA V one page maximum 2014 Meeting Theme: *Molecular Evolution: From Genome Technology to the History of Life*

Names and full contact information for all organizers (Two or more organizers)

Organizer 1:

Organizer 2:

Symposium Title:

Symposium Summary: (15 lines maximum):

Please indicate why this particular symposium is timely and necessary and also how it is likely to be of interest to a broad range of researchers in the fields of genome biology, molecular biology and evolutionary biology.

Symposium Overview:

P Each symposium will consist of a maximum of 2 invited speakers and 10 contributed speakers.

P The contributed speakers will be drawn from the abstracts submitted by registered delegates.

P The local organizing committee (LOC) may suggest one, additional invited speaker per symposium (Based on symposium title), at no cost to the symposium.

P The symposium organizers will be responsible for selecting at least one invited speaker for their symposium

P The symposium organizers will select the contributed speakers from submitted abstracts.

P The final decision on the selection of symposia, invited and contributed talks will be made jointly by the LOC and International Advisory Board.

Invited Speaker:

We ask you to suggest one or two invited speakers of high quality capable of delivering an interesting talk of wide interest. Please indicate whether they have been approached and/or whether they have confirmed their participation and the likely topic for their talk.

(e.g. *Prof A.N. Other - confirmed or approached and likely to speak but not yet confirmed)*

Important Dates:

Call for Symposia will *close on Friday October 25th 2013.* No extensions will be granted.

Successful Symposium *applications will be confirmed on November 1st 2013*.

The Online *Abstract Submission will open on November 4th 2013.*

* *

The LOC and International Advisory Board will make their decision based on the standard of proposals received. Symposium submissions from local scientists in the Caribbean and Latin America are encouraged.

*Please email Symposium Submissions to: *SMBE2014@mci-group.com

Subject Line: SMBE 2014* *Symposium Submission

Please Note:

Each successful symposium will be funded with $1,500 USD to help with the costs of inviting speakers to the meeting. If you have any queries about this please email the meeting secretariat on smbe2014@mci-group.com.

Sponsored symposia are encouraged, however, please contact our Exhibition and Sponsorship Manager Margaret Andreucetti (margaret.andreucetti@mci-group.com) before beginning sponsorship discussions and to enquire about the industry prospectus.

Taras K Oleksyk UPR-M Biology Department, Mayaguez, Puerto Rico 00680

Taras K Oleksyk <taras.oleksyk@upr.edu>

Seattle BigDataOmics Nov24-26

"Impact of Large scale Omic Data on Statistical and

Quantitative Genetics (SQG13)"

Registration for this important conference at the University of Washington, November 24-26, 2013 is now open at www.sqg13.org There will be distinguished speakers, opportunities for posters, and networking events. Opening reception at the Burke Museum.

Further details from Tim Thornton (tathornt@uw.edu), Rebecca Doerge (doerge@purdue.edu), Zhao-Bang Zeng (zeng@statgen.ncsu.edu) or Bruce Weir (bsweir@uw.edu)

Bruce Weir <bsweir@uw.edu>

Turku Finland ButterflyEvolution Aug11-14

Applications for symposium conveners open for ICBB2014.

In about one year (August 11-14, 2014) the International Conference on the Biology of Butterflies (ICBB2014) will take place in Turku, Finland. The conference will be organized into 12 symposia, of which four will be arranged by the organizing committee, under the broad themes 'Population biology and conservation', 'Genomics and development', 'Ecology and evolution' and 'Systematics and diversification'. These four symposia are planned to be very general and to inform all attendees of the latest trends in their respective areas. They will take place during the mornings and there will be no parallel sessions during that time.

The afternoons will have two parallel sessions and will be more specific. We invite proposals for themes and conveners of the 8 afternoon symposia. Each symposium will consist of a 40 minute slot for a keynote speaker plus 6 or 9 (depending on the day) 20 minute slots for normal presentations. Applications should be no longer than 2 A4 pages and should describe the theme, why it is important and include suggestions of potential speakers including the key note speaker (with no obligation by suggested people to actually accept an invitation, should the application be accepted). Conveners should leave four or five 20 minute slots open for contributed talks.

Applications and/or questions should be sent to niklas.wahlberg@utu.fi by September 15, 2013. Applications will be reviewed by the organizing committee and decisions will be made by October 15, 2013.

More information about the conference can be found on http://nymphalidae.utu.fi/icbb2014/index.html including a link to subscribe to an e-mail list, which will be the primary route of disseminating information. Please forward this to any potentially interested persons.

We look forward to a successful and inspiring conference! See you next year! Niklas Wahlberg Marjo Saastamoinen Patrícia Beldade André Freitas Chris Wheat

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

Phone: +358 2 333 5569 Fax: +358 2 333 6680 Skype: niklas_w2

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

UCalifornia SantaBarbara EvolutionDrugResistance

DEADLINE approaching: September 30

Dear Colleagues,

We are writing to announce the program Evolution of Drug Resistance to be held at the Kavli Institute for Theoretical Physics at the University of California, Santa Barbara, during the period July 21 - September 19, 2014, and to alert you that applications are now being accepted. We also encourage you to inform others who you think might be interested in applying.

A summary and the latest information about the program can be found online at: http://-/www.kitp.ucsb.edu/activities/dbdetails?acro=-3D3Dsuperbugs14. Note the Application Deadline is September 30, 2013.

KITP programs differ from many conferences and workshops in that they create a situation where scientists learn from each other and actually do substantive research, often collaborating with other participants. To foster these interactions, KITP strongly encourages theorists to stay for as long as possible, with three weeks being the minimum stay for a regular participant. We understand, however, that bench scientists with laboratory responsibilities often cannot manage long visits but can have a big impact even in a week, so we can be more flexible for them.

Some level of financial support will be available, the amount depending on the needs of the participants and availability of funds. Supplementary funds are available to help support families wishing to make extended visits. To apply, go to the aforementioned web page, and click on the Apply link. Late applications will be considered as budget and space permits. Due to space and financial constraints, however, we may not be able to accommodate everyone who applies.

KITP provides office and computing facilities on-site at UC Santa Barbara and also provides help finding living accommodations. It is necessary for every prospective participant to set up an account and apply online, even if we have already corresponded with you about the program. Actual commitments of office space and financial support can be made only by written formal invitations from the KITP Director, Lars Bildsten, regardless of any communications you may have had with us.

If you think you might like to participate, it will help us with our planning if you could apply early, including your proposed length of stay and any financial requirements. If you have any questions, please contact one of the coordinators.

Sincerely yours,

Richard Neher <richard.neher [at] tuebingen.mpg.de> Ville Mustonen <vm5 [at] sanger.ac.uk> Daniel Weinreich <daniel_weinreich [at] brown.edu>

richard.neher@tuebingen.mpg.de

UNewSouthWales EvolutionEconomics Feb2-5

Just 10 days remain for early-bird registrations for the "Cooperation & Conflict in the Family Conference" to be held at the UNSW, Sydney, Australia in February (2-5) 2014.

http://www.evolvingeconomics.com/ The conference brings together leading evolutionary and economic thinkers to explore the nature of conflict and cooperation between the sexes in the areas of mating, fertility and parental investment. 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.

PLENARY SPEAKERS< http://-evolvingeconomics.com/invited-speakers/ >

* David Barash<http://evolvingeconomics.com/-invited-speakers/david- barash/>, University of Washington * Alison Booth<http://-evolvingeconomics.com/invited-speakers/alison-booth/>, Australian National University * Monique Borgerhoff Mulder<http://evolvingeconomics.com/-invited-speakers/monique- borgerhoff-mulder/>, University of California Davis * Lena Edlund<http:/-/evolvingeconomics.com/invited-speakers/lena- edlund/>, Columbia University * Michael Jennions<http://evolvingeconomics.com/invited-speakers/michael- jennions/>, Australian National University * Hillard Kaplan<http://-evolvingeconomics.com/invited-speakers/hillard- kaplan/>, University of New Mexico * Hanna Kokko<http://evolvingeconomics.com/invited-speakers/hanna- kokko/>, Australian National University * Jason Potts<http://evolvingeconomics.com/-invited-speakers/jason- potts/>, Royal Melbourne Institute of Technology * Paul Seabright<http:/-/evolvingeconomics.com/invited-speakers/paul-seabright/>, Toulouse School of Economics

Sydney is a marvellous place to visit, especially in February. Please visit the conference website at www.evolvingeconomics.com< http:/-/www.evolvingeconomics.com > to find out more and to take advantage of the discounted registration rates (available until 30 September).

Rob Brooks & Jason Collins

rob.brooks@unsw.edu.au

Ventura CA PredatorPrey GordonResConference Jan5-10

Please plan to attend the first ever

Gordon Research Conference on Predator-Prey Interactions

5-10 January, 2014; Ventura, California

www.grc.org/programs.aspx?year 14&program=predator

The theme of this inaugural conference is

>From Genes to Ecosystems to Human Mental Health

Liana Zanette (Chair, Western U), Andy Sih (Vice-

Chair, UC Davis)

We have an outstanding list of confirmed speakers and contributors (below) and our meeting is filling-up fast so please register soon.

Gordon Conferences are recognized as the "world's premier scientific conferences", where 150-200 leading investigators from across the globe meet biennially for a full week of intense discussion of the frontier research in their field.

The goal of the Predator-Prey Interactions Gordon Research Conference is to explore the unique insights to be gained from an interdisciplinary focus on phenomena specific to predator-prey interactions, and our list of confirmed speakers and contributors accordingly includes evolutionary biologists, ecologists, neuroscientists, physiologists, developmental biologists and human psychologists. Â The structure of the meeting aims to foster as much dialogue as possible in order to facilitate as many new collaborations as possible, that are sure to lead to new synergies and new avenues of research.

Please visit our updated website that includes details on registration, organization and the confirmed speakers. Please spread the word about this exciting new conference among your colleagues and please also encourage post-docs and students to attend. Our primary objective is to ensure that every attendee is an active participant.

SESSIONS AND CONFIRMED SPEAKERS

Establishing an Interdisciplinary Approach to Predator-Prey Interactions Larry Dill (Discussion leader) Oswald Schmitz, David Diamond

The Neurobiology of Predator-Induced Fear Joel Brown (Discussion leader) Newton Canteras, Ajai Vyas, Jacqueline Blundell

Inducible Morphological Defences Peter Eklöv (Discussion leader) Rick Relyea, Ralph Tollrian

Predators as Stressors: Integrating Human and Animal Models Jay Schulkin (Discussion leader) Michael Clinchy, Michael Sheriff, Vivette Glover, Rachel Yehuda

Fear Effects on Population- and Ecosystem-Level Processes Barbara Peckarsky (Discussion leader) Scott Creel, Dror Hawlena

Learning, Unlearning and Communicating Fear Ken Lukowiak (Discussion leader) Maud Ferrari, Dan Blumstein, Robert Magrath, Peter Banks

Predators, Prey and Plants: Does Fear Make the World Green? Evan Preisser (Discussion leader) Geoffrey Trussell, Mark Boyce

Restoring the Balance Between Predators and Prey James Estes (Discussion leader) Craig Packer, Michael Heithaus, Bodil Elmhagen, David Macdonald

Evolutionary Ecology of Predator-Prey Interactions Andrew Beckerman (Discussion leader) Johanna Mappes, Andy Sih

CONFIRMED CONTRIBUTORS

Zvika Abramsky, Joy Anogwih, Leon Blaustein, Justin Brashares, Grant Brown, Joseph Bump, Lauren Chaby, Simon Chamaille, Anna Chalfoun, David Christianson, Adam Crane, Will Cresswell, Joseph Fontaine, John Fryxell, James Gilliam, Daniel Gruner, Lars-Anders Hansson, James Harwood, Andrew Higginson, Mark Hixon, Francis Juanes, Bart Kempenaers, Burt Kotler, John Laundré, Barney Luttbeg, Ross Macleod, Lindsey Messinger, Jennie Miller, Andrea Morehouse, Chiara Morosinotto, Rahmat Naddafi, Maria Ocasio-Torres, John Orrock, Marinde Out, Scott Peacor, Nicholas Pilfold, Catharine Pritchard, Bernard Roitberg, Timothy Roth, Lauren Sallan, Stuart Sandin, Ken Schmidt, Vahan Serobyan, Robert Serrouya, David Skelly, Justine Smith, Theodore Stankowich, Adrian Stier, Maria Thaker, Jennifer Thaler, Robert Thomson, Strahan Tucker, Abi Vanak, Wolfgang Weisser, Christopher Wilmers

Professor Liana Zanette Department of Biology Western University London, ON, N6A 5B7 Ph: 519-661-2111 Ext 88317 E-mail: lzanette@uwo.ca www.lianazanette.com Liana Zanette <lzanette@uwo.ca>

GradStudentPositions

ANU Auckland Phylogenomics

4 year PhD scholarship in Computational Phylogenomics

We seek a highly motivated computational or evolutionary biologist to undertake a 4 year PhD, jointly supervised by Craig Moritz at the Australian National University and Alexei Drummond at the University of Auckland.

The capacity to generate sequence data at 100's to 1000's of loci and across populations to entire clades provides the opportunity to dramatically improve discovery of species, estimation of their relationships and understanding of micro- and macro-evolutionary processes. But to fully exploit these rich data we need to develop improved and new methods in population- and phylo-genomic inference. Building on the BEAST2 platform, the student will develop and apply software for species delimitation, species-tree estimation and phylogeographic inference that makes effective use of large-scale, multilocus sequence data. The student will have access to a range of such datasets from the Moritz lab, and opportunity to develop these if desired.

A scholarship of $27,500 p.a., funded by the Australian Research Council is available for 4 years, commencing on January 1st 2014. A 1st class BSc(Hons) or MSc are required, as is a strong background in evolutionary or computational science with some level of training in both. Applications are welcome from persons of any nationality. The student would be enrolled for a PhD in the Division of Evolution, Ecology & Genetics, Research School of Biology, ANU (rsb.anu.edu.au), and with the possibility of formal affiliation with Univ. Auckland. For further details or to send applications, please contact Craig Moritz (craig.moritz@anu.edu.au). Review of applications will commence on November 1st, 2013.

Craig Moritz Research School of Biology & Cntr for Biodiversity Analysis Australian National University +61 2 6125 5651 (CM office) +61 2 6125 9492 (via Claire, M-W am only)

gekkojessie@gmail.com

BielefeldU SeminalFluidEvolution

Bielefeld University, Germany

FUNCTIONAL AND EVOLUTIONARY GENETICS OF SEMINAL FLUID

Applications are sought for two Ph.D. positions available in my lab at the Department of Evolutionary Biology, Bielefeld University, to study the functional and evolutionary genetics of seminal fluid in Macrostomum flatworms. This emerging model system for studying sexual selection, sexual conflict and sex allocation in simultaneous hermaphrodites exhibits rich reproductive diversity and many methodological advantages (e.g. small size, transparency, short generation

time, genomics and molecular tools such as RNAi). We will take full advantage of these features in this project, which aims to discover what seminal proteins are produced by the main model species M. lignano, what these proteins do, and how seminal fluid proteins vary within and between species.

The positions are offered as part of a DFG-funded research project, providing for salary for up to 3 years (65% of the TV-L E13 scale), and available from early 2014 (exact start date negotiable). The Department of Evolutionary Biology at Bielefeld University offers a stimulating research environment for studying sexual selection, with five PIs all engaged in sexual selection research on a variety of model systems (see http://www.uni-bielefeld.de/-biologie/Evolutionsbiologie/index.html). We are an international team of scientists, and the working language of the Department is English. The project will further benefit from the involvement of international cooperation partners in Switzerland, Austria and The Netherlands.

If you have a strong background (including an M.Sc. or equivalent) in evolutionary biology or a related field and feel that you would be well suited to the project, please get in touch. One Ph.D. student will likely focus on the functional characterisation of seminal fluid and the other on evolutionary genetics aspects, but the specific focus of each project will be developed together with the successful candidates. Previous experience with molecular biology, quantitative genetics and/or molecular evolution would be an advantage, but is not required; full training will be provided.

To apply, please send a letter of motivation (including research interests, skills and details of relevant experience), a CV, contact details for 2-3 referees and (if available) a copy of your M.Sc. thesis, all as a single pdf file, to Dr. Steven Ramm (steven.ramm@uni-bielefeld.de). Review of applicants will begin on 31st October, but applications will continue to be accepted until the positions are filled.

We welcome applications from suitably qualified disabled applicants. Bielefeld University is recognised for its achievements in gender equality and is certified as a family-friendly university. We welcome applications from suitably qualified female applicants. Applications from women are especially encouraged in scientific disciplines as well as in technology, IT and skilled crafts. Applications are treated in accordance with the Landesgleichstellungsgesetz (state Equality Act).

Dr. Steven Ramm Evolutionary Biology, Bielefeld University Morgenbreede 45, 33615 Bielefeld, Germany Tel. +49 (0)521 106 2719 Web: http://tinyurl.com/-steveramm Email: steven.ramm@uni-bielefeld.de

steven.ramm@uni-bielefeld.de

BostonU ColoradoStateU PopulationConnectivity

The Buston Lab in the Department of Biology at Boston University (http://www.bu.edu/biology/-people/faculty/buston/) and the Webb Lab in the Department of Biology at Colorado State University (http://rydberg.biology.colostate.edu/ctwebb/-index.html) seek a new graduate student (PhD level) to work on the NSF funded project "An Integrative Investigation of Population Connectivity Using a Coral Reef Fish" (http://www.nsf.gov/awardsearch/-showAward?AWD_ID=1260424).

The aim of the project is to come to a better understanding of the patterns, causes and consequences of marine larval dispersal and population connectivity, so that we can improve reserve design and fisheries management. We use the neon goby Elacatinus lori, which lives on the Belizean Barrier Reef, as a tractable model system. The overall project integrates genetic, ecological, behavioral and oceanographic data, with modeling simulations and statistical analyses. The student project will likely involve the development of evolutionary ecology models that use data on larval dispersal to predict patterns of spatial genetic structure.

Ideally, prospective students will have strong interests in ecology and evolution with additional quantitative background (e.g., mathematics and statistics) and marine background (e.g., fieldwork and SCUBA). Realistically, we expect to provide quantitative and / or marine fieldwork training. The prospective student may be based in either Boston or Fort Collins, but will spend time at both institutions and at the field site in Belize.

Jill M. Lackett Research Associate Natural Resource Ecology Lab Colorado State University 970.491.2343 (p) 970.491.1965 (f) Jill.Lackett@colostate.edu NREL homepage: http://www.nrel.colostate.edu/ For group mailings: Use of this mail list is intended exclusively for internal communication at Colorado State University. Any unauthorized use is prohibited.

"Lackett,Jill" <Jill.Lackett@ColoState.EDU>

BrighamYoungU PlantEvoDevo

A PhD graduate student position in the evolution of plant development is available beginning Fall 2014 in the Whipple lab, Department of Biology, Brigham Young University. Research interests in the Whipple lab center on the genetic basis of morphological diversity in plants, with a focus on both model and non-model systems (see whipplelab.byu.edu). Students will employ molecular, morphological and genetic approaches to address basic questions in the evolution of plant development. Specific research projects include comparative flower and inflorescence development in both grasses (Poaceae) and Gilia (Polemoniaceae).

The successful applicant will be highly motivated with a strong interest in plant development, and demonstrated experience with basic molecular biology techniques (PCR, cloning, sequence analysis, etc.).

Funding for this position is guaranteed through a combination of Teaching Assistantships from the Department of Biology, and Research Assistantships from external NSF research funds and will cover tuition and benefits in addition to a yearly stipend beginning at $22,500. Especially competitive applicants will be eligible for a University Graduate Research Award, which provides a stipend of $30,000/year.

Interested applicants should send a CV, transcripts, GRE scores (if available) and a statement of research interests to Clinton Whipple (whipple@byu.edu). Applications will be screened starting immediately and continue until to Jan 1st 2014. International students with strong credentials are welcome and encouraged to apply.

All application materials and any questions should be directed to:

Clinton Whipple Assistant Professor Department of Biology Brigham Young University 401 WIDB Provo UT, 84602 USA

Email: whipple@byu.edu

Email correspondence is preferred.

whipple@byu.edu

ETHZurich MicrobialEvolution

PhD position: microbial experimental evolution

A PhD position is available for a highly motivated candidate interested in evolutionary biology and microbiology. The studentship is fully funded by the Swiss National Science Foundation and supervised by Dr Alex Hall (www.tb.ethz.ch/people/ahall) at the Institute for Integrative Biology, ETH Zurich.

This position is part of a multidisciplinary project investigating the evolutionary and ecological drivers of antibiotic resistance, including the roles of bacteriophages, mutation rates and persister cells. The successful candidate will study the evolution of antibiotic resistance in real time in experimental populations of Escherichia coli and Pseudomonas aeruginosa. This will involve a combination of microbiology, molecular biology and evolutionary genetics. Experience in one or more of these areas will be advantageous, and specific projects will be tailored to suit skills and interests.

Studentship details: Three years, starting on or soon after 1st March 2014. Salary is on the PhD student scale of the Swiss National Science Foundation (42,000 chf p.a. gross increasing to 48,000). Applicants should have a Masters degree in a relevant discipline and excellent communication skills in English.

Host Institute: the Institute for Integrative Biology includes theoreticians and experimentalists working on a broad range of questions. The PhD will involve frequent interactions with other members of the Theoretical Biology group led by Prof. Sebastian Bonhoeffer (www.tb.ethz.ch) and the Molecular Microbial Ecology group led by Prof. Martin Ackermann (www.ibp.ethz.ch/research/-molecularmicrobialecology), offering excellent opportunities to develop interests and expertise. ETH is a leading university for research in biology and Zurich offers a lively postgraduate culture and high standard of living.

To apply send a single pdf file containing (1) a cover letter describing your research interests and motivation, (2) a CV and (3) contact details for two or three referees to alex.hall@env.ethz.ch. Informal enquiries to the same. Deadline: December 1st (open until filled).

Alex Hall Institute for Integrative Biology, ETH Zurich www.tb.ethz.ch/people/ahall alex.hall@env.ethz.ch

LaTrobe Melbourne PopulationGenomics

**Graduate positions in population genetics/genomics ** Molecular Biodiversity Lab LaTrobe University Melbourne, Australia

We are seeking outstanding PhD applicants to undertake projects in the areas of population genomics, phylogeography, bioinformatics and molecular ecology. Our lab has a broad research agenda and we are interested in applying genomic tools to 1) better understand fisheries and aquaculture industries, to 2) investigate population and species level evolution in the context of climatic change, 3) investigate the link between dispersal and ecology.

Presently there are a number of projects available including: "Population connectivity in Eastern Rock Lobster: a range-shifting species", "Population genetics, dispersal and species traits in freshwater invertebrates" and "The effects of landscape structure on litter decomposition by invertebrates and microbes" for more details see the website http://molecularbiodiversity.wordpress.com/opportunities/ Applicants must possess a Bachelor's degree with Honours, Master of Science or equivalent degrees. Australian and New Zealand applicants must have received first class Honours degrees. Interested candidates should send an e-mail outlining their research interests and experience, together with a CV and academic transcript to J.Strugnell@latrobe.edu.au and N.Murphy@latrobe.edu.au.

Research funding is guaranteed for these projects, and some of the projects have $6000 per year Scholarship top-ups available, however Australian applicants will need to apply for a Postgraduate Scholarship (tax-free 2013 rate of approximately $25,000 AUD) through La Trobe University to cover their living expenses (http://www.latrobe.edu.au/research/future/scholarships). International applicants will require a Postgraduate Scholarship to cover their living expenses and Fee Remission Research Scholarship to cover tuition costs (http://www.latrobe.edu.au/international/fees/scholarships/research). Of course, students able to attract other international scholarships are also welcome to apply.

Potential applicants should make contact at least 2 weeks prior to the closing dates. The closing date for Australian/New Zealand scholarships is October 31. For international applicants the closing date is September 30

Nick Murphy Genetics Department La Trobe University | Melbourne | Australia T: 03 9479 2534

N.Murphy@latrobe.edu.au

LincolnU PhylogeneticSystematics

PhD project in phylogenetic systematics at Lincoln University, New Zealand

?Psyllid-microbial associations: modern-day risk of primitive true bugs?

PROJECT:

The recent establishment of the tomato potato psyllid (TPP), Bactericera cockerelli, and its vectoring of the newly discovered non-culturable bacterium Candidatus Liberibacter solanacearum, has had a huge negative impact on the New Zealand horticultural industry. This now represents an imminent threat to the Australia and adds to that from the Asian citrus (Diaphorina citri) and eggplant (Acizzia solanicola) psyllids.

Understanding what psyllid/microbial associations are already in New Zealand and Australia, and developing the technologies for the detection of new potentially pathogenic associations, has now become a priority for biosecurity preparedness.

Field collections of psyllids in both New Zealand and Australia will be made. These, together with other specimens or data, will be used to construct a molecular phylogenetic scaffold upon which the microbes found, through next generation sequencing, to be linked with those psyllids can be superimposed.

Hypotheses as to the risk to plant health posed by existing or new associations will be developed. The data may also contribute to diagnostic methods for the detection, identification and surveillance of the psyllid vectors as well as potential causative agents of disease.

APPLICANTS:

We are seeking a highly motivated student to develop skills in molecular phylogenetics and systematics that will cross the disciplines of entomology and microbiology.

The successful candidate will be mentored by senior re-

searchers at the Bio-Protection Research Centre, a New Zealand government supported Centre of Research Excellence hosted by Lincoln University, Plant and Food Research, a New Zealand Crown Research Institute, and the University of Adelaide.

The Plant Biosecurity Cooperative Research Centre is offering a scholarship of an annual stipend of AUD30,000 a year tax-free, plus approximately AUD10,000 additional support a year towards operating expenses. The duration of the scholarship is three and a half years (maximum). The CRC also supports travel to one conference, attendance at an annual student workshop, and formal professional development. Check the CRC website for further details at http://www.pbcrc.com.au/education-training/scholarships Applicants should:

- hold a first class or high 2A honours degree or equivalent in biology

- preferably have an interest in entomology and in developing molecular bioinformatic skills

- be eligible for admission to the PhD program at Lincoln University, New Zealand and

- include evidence of qualifications and research experience, together with a curriculum vitae and contact details of two academic referees.

For further information about this project, or to submit an application by 5 pm 1st October NZ time, contact: Dr Karen Armstrong, Senior Research Scientist in Molecular Diagnostics, Bio-Protection Research Centre, PO Box 85084, Lincoln University, Lincoln 7647, Christchurch, New Zealand. email: karen.armstrong@lincoln.ac.nz or see http://bioprotection.org.nz/vacancy/phd-scholarship-phylogenetics-and-systematics Dr Karen Armstrong Senior Research Scientist Diagnostics for Biosecurity

Bio-Protection Research Centre P O Box 85084 Lincoln University Lincoln 7647 Christchurch New Zealand

p +64 3 423 0918| f +64 3 325 3864 e Karen.Armstrong@lincoln.ac.nz | w http://bioprotection.org.nz Bio-Protection is a National Centre incorporating staff from Lincoln University, Massey University, AgResearch, Crop & Food Research and seven other collaborator institutes that conducts world class research and development to meet the biosecurity and pest management needs of New Zealand's productive and natural ecosystems

Lincoln University, Te Whare Wanaka o Aoraki New Zealand's Specialist Land-Based University

"Armstrong, Karen" <Karen.Armstrong@lincoln.ac.nz>

MaxPlanckInst BlueTitEvolution

PhD position on mating behaviour in blue tits at the Max Planck Institute for Ornithology

The department Behavioural Ecology & Evolutionary Genetics at the Max Planck Institute for Ornithology in Seewiesen is looking for a PhD student to study territory settlement and pair formation in a population of blue tits (Cyanistes caeruleus). The focus of the project will be the link between territory settlement, divorce and extra-pair paternity. The candidate will analyze data on nestbox visits during winter and early spring and develop and conduct field experiments. The project is part of a long-term study on the breeding ecology and mating behaviour of blue tits. It makes use of a unique setup where nestbox visits have been monitored extensively since 2008 using RFID technology ("smart nestboxes").

The position is funded for the duration of 3 years, with a possible one-year extension. A Master's degree in biology with a focus on behavioural or evolutionary ecology is required. We are looking for someone who is enthusiastic and motivated to conduct extensive fieldwork, alone and in a team, to learn statistical analysis using the software R, to work in a reliable, structured and effective manner, and to develop good oral and written communication skills. Preference will be given to applicants that have experience working with birds and developed skills in data analysis. A driver's license valid in Germany is necessary.

The successful candidate will join a vibrant, international group of researchers at an institute focused on research on birds. We provide a supportive research and learning environment with excellent facilities. Working language is English. The candidate may have the opportunity to join the International Max Planck Research School for Organismal Biology.

To apply, please send a CV, including a list of publications or an electronic copy of a thesis, a statement summarizing your qualifications and indicating why you are interested in the position, and names and contact details of 2-3 references to Carmen Dobus, cdobus@orn.mpg.de. Applications will be reviewed starting November 4th and will continue until the position is filled.

Informal enquiries concerning the position can be made

with Mihai Valcu (valcu@orn.mpg.de) or Bart Kempenaers (b.kempenaers@orn.mpg.de).

Prof. Dr. Bart Kempenaers Director Max Planck Institute for Ornithology Dept Behavioural Ecology & Evolutionary Genetics E Gwinnerstrasse 82319 Seewiesen Germany

Tel +49 8157 932 334 Tel +49 8157 932 232 (Secretary C. Dobus) Mobile +49 172 835 1578 Fax +49 8157 932 400

b.kempenaers@orn.mpg.de

MaxPlanckInst Leipzig HumanOrigins

We invite applications for the Leipzig School of Human Origins, an international PhD program of the Max Planck Institute for Evolutionary Anthropology and the University of Leipzig.

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

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

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

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

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

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

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

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

We invite applications from all countries. Applicants hold a Masters degree, a Diploma or equivalent in one of the above, or related, fields. It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September 2014.

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

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

Term of Appointment: Fall 2014 Application Deadline: December 1, 2013

Visit www.leipzig.de for information on living in Leipzig, Germany, in the center of Europe.

Contact Information:

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

Sandra Jacob <jacob@eva.mpg.de>

MaxPlanckInst Ploen HybridSpeciation

Two positions for PhD students in evolutionary genetics of hybrids:

Max Planck Institute for Evolutionary Biology, Plön, Germany PhD position on novel traits and genotypic selection in hybrid fish PhD position on the evolution of gene expression of hybrid fish Application deadline: November 30th 2013

The group “evolutionary genetics of fishes” lead by Dr. Arne W. Nolte at the Max Planck Institute for Evolu-

tionary Biology in Plön, Germany, is offering two PhD positions that are funded within the framework of the ERC starting grant "EVOLMAPPING". The goal of this project is to analyze evolutionary change in invasive Cottus, a lineage of fish that represents an example for the early steps of hybrid speciation. We will combine analyses of gene expression, genetic mapping and screens for genotypic selection in laboratory populations and wild fish to identify the links between genotypic and phenotypic evolution to infer the evolutionary impact of natural hybridization. PhD candidates should begin their work in spring 2014 and summer 2014 respectively. The salary of the PhD candidates will be according to the standard German pay scale including all social benefits (TVöD E13/2 salary).

One PhD project to commence in spring 2014 will focus on the inference of genome wide patterns of selection in the evolving gene pool of invasive Cottus to identify genomic traits that play a key role in adaptive evolution and the invasion of new habitats. The task of the student will be to study genome evolution in hybrid fish using various approaches as for example through analysis of the size of ancestral genomic blocks and gene copy number variation. The analyses will be based on Next-Generation sequencing data and use conventional genotyping to validate results. The candidate should be interested in population genetics and computational biology as it is part of the work plan to develop and extend the analysis of genomic sequence data.

The second PhD project to commence in summer 2014 will focus on the evolution of patterns of gene expression in invasive Cottus. The central objective of this project is to study gene expression in the lab and in nature, and to identify phenotypic plasticity and evolutionary novelty in invasive Cottus. The development of an inclusive microarray and the analysis of gene expression will be based on a wealth of transcriptome and genome sequences that facilitate a very inclusive development of a state of the art microarray. This project is adequate for a candidate who is talented in working with live animals and able to do short experiments in the field.

We offer an English speaking and ambitious working environment at the Max Planck Institute for Evolutionary Biology in Plön, Germany. The Institutes main fields of work include evolutionary ecology (Prof. Dr. M. Milinski), evolutionary genetics (Prof. Dr. D. Tautz) and evolutionary theory (Prof. Dr. Arne Traulsen) and experimental evolution (Prof. Dr. P. Rainey) and hosts a number of research groups. The MPI in Plön collaborates with the nearby Christian Albrechts University of Kiel, Germany in a joint International Max Planck research school that attracts PhD students from abroad which contributes to a multicultural working atmosphere. We encourage PhD students to join the IMPRS which grants a high level of supervision, access to courses and an international peer group.

The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Please apply by email to Arne Nolte (nolte@evolbio.mpg.de) until November the 30th 2013 and include a letter describing your motivation, scientific credentials and a CV.

Arne Nolte

Department for Evolutionary Genetics

Dr. Arne W. Nolte

Group Leader

Max Planck Institute for Evolutionary Biology

August Thienemann Strasse 2 24306 Plön, GERMANY
Phone: +49 4522 763-372

Email: nolte@evolbio.mpg.de www.evolbio.mpg.de/~nolte

MemorialU AntimicrobialResistance

I invite applicants for an M.Sc. studentship in Biology. The student's research will involve devising indices to describe the diversity of antimicrobial resistance, mapping resistance across Canada, and developing software that can be used to quantify resistance. The student will become part of an interdisciplinary research team comprising of experts from across Canada. A competitive salary will be offered. Applicants should email ahurford@mun.ca. This email should include: (i) a description of your research interests and any relevant past experience, (ii) your CV, and (iii) unofficial transcripts pertaining to your previous or ongoing studies (if possible). For full consideration applicants should indicate their interest before October 15, 2013, but applications received after this date may still be considered. Applicants should plan to begin their studies in September 1, 2014.

Previous experience with GIS, computer programming, and a background in epidemiology are an asset, how-

ever, the most important qualifications are critical thinking, an enthusiasm for science, and a motivation to learn new software.

Memorial University is a research-intensive university (the largest in Atlantic Canada) with a student population of over 18,000. The graduate program in Biology is one of the largest graduate programs at Memorial. The university is located in St John's, Newfoundland, Canada, a city which offers many unique experiences: a vibrant arts community, stunning coastline, and proximity to a variety of outdoor activities (hiking, fishing, cross-country skiing, etc: http://www.newfoundlandlabrador.com).

MemorialU PlantEvolution

*PhD student position in Plant Evolutionary Biology

A PhD position beginning January 2014 is available at Memorial University of Newfoundland (Biology Department) in the city of St. Johns, CANADA. This position is funded by Presidents Doctoral Student Investment Fund and start-up funds of Memorial University, however, the student will also be expected to teach during the first half of the PhD program.

Overview of project: Harboring approximately 37% of the worlds species, tropical America is the richest region on earth. Research in my lab aims to explain how palaeogeographic events and speciation mechanisms have influenced the evolution and distribution of the high plant species diversity in tropical America. *The objective of the PhD project is to conduct a meta-analysis of plant phylogenies to shed light on the historical biogeography of Western Amazonia and the Caribbean, two biodiversity hotspots*. Notably, divergence times of endemic plant species from these two regions, and the potential distribution of their ancestors will be assessed through biogeographic modeling. A temporal framework for the diversification, extinction, and colonization events in these two biodiversity hotspots will be elucidated.

Student's responsibilities:

Construct a database of publicly available DNA sequences, matrices and phylogenies of endemic species from the Western Amazon and the Caribbean.

Estimate the divergence times of plant lineages from these two regions using the fossil record or known nucleotide substitution rates.

Infer the distribution of ancestral lineages of each tribe or genera in the database.

Reconstruct the evolution of flood-tolerant traits within targeted lineages.

The PhD student will work under the mentorship of Dr. Julissa Roncal, and will interact with collaborating investigators as well as graduate and undergraduate students.

StudeStudent's qualifications:

A MSc. degree in a related discipline (e.g. botany, evolution, molecular ecology, bioinformatics)

Familiarity with public databases such as NCBI, TreeBase, Dryad, etc

Knowledge of alignment methods of DNA sequences and software

Experience with phylogeny reconstruction (parsimony, maximum likelihood, Bayesian)

Knowledge of divergence time estimation using BEAST or other software/algorithm, and of geographic range evolution (e.g. DIVA, Lagrange) would be desirable but not mandatory

Knowledge of character state reconstruction (BayesTraits, Mesquite) would be desirable but not mandatory.

Excellent analytical, organization and communication skills.

* *

The PhD program comprises four years of full time studies with an annual stipend of CAD 19,000. Interested applicants should send their CV, a brief statement of research interests, transcripts, along with contact information of 3 references in a single pdf or word file to Dr. Julissa Roncal at Email: jroncal@mun.ca.

This is a newly formed lab with more information at: http://www.mun.ca/biology/jroncal/ For instructions on how to apply to Memorials graduate program visit: http://www.mun.ca/become/graduate/apply/index.php International students with strong credentials are welcome. Screening will begin immediately and will continue until the position is filled. Start date can be flexible. Memorial University is Atlantic Canadas largest university and its offers a multicultural environment.

Julissa Roncal Assistant Professor Memorial University of Newfoundland Department of Biology 232 Elizabeth Ave. St. John's, NL A1B 3X9 Canada Office SN4102, phone 1 (709) 8642241 Lab SN4096-4097, phone 1 (709) 864 2093 Mobile: 1 (709) 351 6771

Julissa Roncal <roncal.julissa@gmail.com>

MississippiStateU ProtistComparativeGenomics

Graduate Student Assistantship in Comparative Genomics

I am seeking potential graduate students (M.S. or Ph.D.) interested in studying comparative genomics of amoeboid protists.

Our lab is broadly interested in the evolution of sociality in microbes. We are developing model systems to look at the commonalities among the greatest examples of convergent evolution known to date. We have discovered that a great diversity of single celled eukaryotic microbes (AKA protists) are capable of working with one another to form a complex body made of thousands of individual cells. This is one of the simplest and most striking examples of emergent behavior. In many cases, this behavior is sacrificial where some of the cells that become part of the multicellular body die for the 'greater good' of others. To examine the commonalities amongst the various social protists, we are taking a multi-pronged approach using comparative genomics and developmental transcriptomics to elucidate the genetic basis of sociality.

Our lab is also interested in examining the deep evolution of eukaryotic lineages. We are using novel approaches in phylogenomics to examine how the various major groups of eukaryotes evolved over the course of the last 2 billon years. We are currently focused on the evolutionary histories of amoeboid organisms.

Funding for students initially would be provided through teaching assistantships within the department, but potential exists for research assistantship funding in the future. I will also provide a summer salary. Information on Graduate Studies in the Department of Biological Sciences is available at http://biology.msstate.edu/degrees/graduate/ The Mississippi State University Department of Biological Sciences is home to faculty with broad research & teaching interests in ecology, evolution, and systematics. Our group has a strong recent record of attracting federal funding from the NSF, USDA, USGS, and EPA. We use a wide array of approaches ranging from field studies and experimentation to molecular approaches including next-generation DNA sequencing and bioinformatics.

Please contact Dr. Matthew Brown (matthew.brown{at}msstate.edu) for more information. Also, a CV that includes information regarding prior education and research experience would be appreciated, along with a statement of your specific research interests.

For more information about the Brown Lab @ MSU, please visit: http://mwb250.biology.msstate.edu/- Matthew W. Brown, Ph.D. Assistant Professor Biological Sciences Mississippi State University 008 Harned Hall Mississippi State, MS 39762 http://mwb250.biology.msstate.edu Matthew Brown <protist@live.com>

NorthCarolinaStateU EvolutionaryBiol

NC State Univ. –Applied Evol. Biol.

NSF-IGERT Genetic Engineering and Society: The case of transgenic pests. We are looking for one or two students interested in applying the tools of evolutionary biology to important global challenges. Genetic pest management involves the manipulation of pest populations to suppress transmission of diseases like malaria, and to decrease densities of agricultural pests. Evolutionary biology has an important role for informing the design of the selfish genetic elements that drive transgenes into the pest populations, and in assessing the risks of specific interventions. http://geneticengsoc.ncsu.edu/ Questions about genetic pest management are technical and scientific, but also deeply social. We believe students must acquire both an understanding of the technologies underpinning genetic pest management as well as an understanding of the social context in which those tools might be used. Because no single student can master all these complexities, our goal is to sponsor an academically and culturally diverse group of about six students in Fall 2014. With roughly equal representation of students seeking degrees in humanities/social sciences and mathematics/natural sciences, IGERT fellows in Genetic Engineering and Society will use their combined expertise to address specific agricultural pest systems

that they choose with help of faculty mentors. In working together, students will gain from each other broader insights about global challenges than they would in a program focused on a single academic discipline.

Contact: Fred_Gould@ncsu.edu

Readings: Gould, F. 2008. Broadening the application of evolutionarily based genetic pest management. Evolution 62: 500V510.

Huang, Y., Lloyd, A.L., Legros, M., Gould, F. 2011. Gene-drive into insect populations with age and spatial structure: a theoretical assessment. Evol. Appl. 4:415-428 DOI: 10.1111/j.1752-4571.2010.00153.x

Fred Gould <fred_gould@ncsu.edu>

PotsdamU EvolutionaryBiology

PhD position in Evolutionary Biology at Potsdam University

A 3-year PhD position (TVEL 13/2) is available at the Unit of Evolutionary Biology/Systematic Zoology at the University of Potsdam, starting January 1st 2014.

The Unit of Evolutionary Biology/Systematic Biology has a strong focus on population genetic and speciation research, involving various taxonomic groups and a suite of molecular, morphological, and behavioural approaches (see http://www.uni-potsdam.de/index.php?id=21862 for recent work).

The successful applicant will work on the speciation of electric fish, combining molecular, electrophysiological, and behavioural studies. The project may involve field work in the tropics.

The position includes a teaching duty of 2 hours/week in zoology for undergraduates.

Applicants must hold a university degree (Diplom oder Master of Science in biology or a related discipline). Familiarity with modern molecular genetic techniques (PCR etc.), genomic data analysis, electrophysiology and/or behavioral methods (including multivariate statistics) is preferable.

The University of Potsdam is an equal opportunity employer. If equally qualified, disabled applicants will be preferably considered. The University of Potsdam aims at increasing the number of female researchers and encourages qualified females to apply.

Potsdam is a beautiful city in close vicinity to the German capital of Berlin. Potsdam University takes an effort to assist its members in family-related issues and has repeatedly been awarded the total e-quality award.

Please send your application by email (preferably in a single pdf) before 15th of October 2013 to: Prof. Dr. Ralph Tiedemann, University of Potsdam, Institute of Biochemistry and Biology, Evolutionary Biology/Systematic Zoology, Karl-Liebknecht-Str. 24-25, Haus 26, D-14476 Potsdam, Germany, Email: tiedeman@uni-potsdam.de

Prof. Dr. Ralph Tiedemann Unit of Evolutionary Biology/Systematic Zoology Institute of Biochemistry and Biology University of Potsdam Karl-Liebknecht-Str. 24-25, Haus 26 D-14476 Potsdam Germany Tel: +49-331-977-5249, -5253 (secretary) Fax: +49-331-977-5070 Email tiedeman@uni-potsdam.de www.uni-potsdam.de/ibb/evolution Ralph Tiedemann <tiedeman@uni-potsdam.de>

RoskildeU UJyvaskyla PolychaeteEvolution

A PhD scholarship is available for a student within the project “Developmental plasticity in the polychaete Pygospio elegans and its genetic basis”.

GESS - the Graduate Programme in Environmental Stress Studies, within the Department of Environmental, Social and Spatial Change (ENSPAC), Roskilde University (RUC) Denmark and The Graduate Programme of the Department of Biological and Environmental Science, University of Jyvaskyla (JYU) Finland - are offering a 3.5 year scholarship for a double-degree student. The student will spend approximately half of the total study period at each institution and complete requirements as outlined in a cotutelle agreement. The position shall be filled November -December 2013. The student will be co-supervised by Benni Winding Hansen and Gary T. Banta (RUC) and K. Emily Knott (JYU).

The research project will aim to determine the extent of developmental plasticity in natural populations, test possible environmental triggers of plasticity and compare the expression of relevant genes during development in the estuarine polychaete Pygospio elegans. In this study the research groups integrate studies in marine benthic ecology, experimental ecology, and molecular and developmental genetics to understand polymorphism in larval development in the polychaete worm

Pygospio elegans. This species inhabits a wide range of habitats and is one of the few marine species capable of producing multiple types of larvae that differ in morphology and potential for dispersal. Such polymorphism may represent developmental plasticity, with different outcomes triggered by specific environmental variables and may also have a genetic basis. Our research uses P. elegans as a model for deciphering the mechanisms of the evolution of larvae and development.

The following lists examples of tasks and questions that will be addressed in the PhD research: 1. Surveying population dynamics and maybe also the larval development of P. elegans from sites in Roskilde Fjord and Isefjord in Denmark, and recording environmental variation at these sites. 2. Testing the role of salinity and density as cues for plasticity in development. 3. Comparing expression of relevant developmental genes in larvae from experimental treatments and/or culture. 4. Identifying possible signs of selection or epigenetic marks in DNA sequences of developmental genes.

The successful candidate should have a background in the natural sciences preferentially with experience in benthic marine ecology and/or population genetics. Experience with experimental biology or physiology, integrative and comparative biology, molecular biology and bioinformatics will be considered an advantage. Furthermore, it is recommended that the candidate has good communication skills, commitment to scientific research, and motivation for completing the doctorate in a double degree framework, at two institutions. The proposed project will have a strong experimental dimension which will be affiliated to the ENSPAC experimental plankton group led by Professor Benni Winding Hansen and Environmental Risk group lead by Associate Professor Gary T. Banta. A genetic component to the project is required and will be affiliated with group led by Academy Researcher Emily Knott at the University of Jyvaskyla. The Ph.D. scholarship requires that the candidate firstly spend 1.5 years in Denmark (RUC) and thereafter 2 years in Finland (JYU). The candidate will defend the Ph.D. at both institutions.

The successful candidate will be enrolled while in Denmark in the Graduate Programme in Environmental Stress Studies (GESS) in accordance with the rules issued by the Ministry of Technology and Science and additional regulations issued by Roskilde University (RUC), and will be employed in accordance with the agreement between the Ministry of Finance and AC (the Danish confederation of Professional Associations). Candidates receiving GESS scholarships are automatically registered in the school. They are expected to participate actively in relevant courses, seminars and other activities arranged by GESS. While in Finland, the successful candidate will be enrolled in the Graduate Programme in the Department of Biological and Environmental Science at University of Jyvaskyla, according to regulations set out in a cotutelle agreement between JYU and RUC. They are expected to participate actively in relevant courses, seminars and other activities arranged by the graduate programme. Salary is defined at local levels and may differ between RUC and JYU. Research expenses are covered by the project.

To apply, please prepare the following: * Your Curriculum vitae * A research plan or project description of 2-4 pages (The applicant is not requested to submit a budget, however any extraordinary expenses associated with the project should be indicated). * A time-table of the proposed research * Degree certificate or transcript of previous studies

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RutgersU ViralPhylogenetics

Rutgers University, Viral evolution/Phylogenetics

The Duffy lab (http://www.rci.rutgers.edu/~siobain/) at Rutgers University is recruiting a PhD student to work on an NSF-funded project aimed at assembling the tree of life for circular, eukaryotic single-stranded DNA viruses. This group of ssDNA viruses contains emergent crop and livestock pathogens, and has been historically undersampled in viral metagenomes.

The ideal candidate will be a motivated, curious scientist with a strong interest in phylogenetics, systematics and microbiology. Regardless of undergraduate major, s/he should have a background in evolution or microbiology, and have previous wet or dry laboratory experience. The student could matriculate through the graduate program in Ecology and Evolution, Microbial Biology, or Microbiology and Molecular Genetics, starting in the fall of 2014.

Rutgers, the State University of New Jersey, is a leading national public research university. New Brunswick is within an hour's drive of New York City and beaches on the Atlantic Ocean, and within a 90 minute drive of Philadelphia and the Appalachian Trail. New Jersey is

one of the most ethnically diverse states, with over 20% of the population having immigrated to the US.

Any queries should be addressed to Siobain Duffy (duffy@aesop.rutgers.edu), and should include a current CV (as a .pdf). Candidates from all backgrounds are encouraged to apply.

duffy@AESOP.Rutgers.edu

SanDiegoStateU EvolutionaryBiol

GRADUATE STUDIES IN EVOLUTIONARY BIOLOGY

We are seeking well qualified applicants to apply for admission for Fall, 2014 for two graduate programs in Evolutionary Biology at San Diego State University (SDSU), San Diego, CA: 1) MS program http://www.bio.sdsu.edu/eb/ms.html and 2) Joint Doctoral program in Evolutionary Biology (JDPEB) between the Department of Biology at SDSU and the University of California, Riverside, CA. www.bio.sdsu.edu/eb/jdeb.html Both graduate programs are competitive with a diverse, interdisciplinary faculty that provides instruction and training in evolutionary biology including organismal biology, molecular evolution, genomics, paleontology, population biology, conservation genetics and systematics. Applications will be accepted beginning October 1, 2014. Please contact Annalisa Berta, aberta@mail.sdsu.edu for more information about the JDPEB program and Kevin Burns, kburns@mail.sdsu.edu for more information about the MS program.

Annalisa Berta, Ph.D. Professor and Coordinator of SDSU/UCR Joint Doctoral Program in Evolutionary Biology

Department of Biology San Diego State University San Diego, CA 92182-4614 Phone: (619) 594-5392 lab: (619) 594-4584 (LS 260) fax: (619) 594-5676 email: aberta@mail.sdsu.edu http://www.bio.sdsu.edu/faculty/berta.html www.bio.sdsu.edu/eb/jdeb.html Annalisa Berta <aberta@mail.sdsu.edu>

TulaneU LandscapeGenetics UrbanRodents

PhD POSITION IN THE LANDSCAPE GENETICS OF URBAN RODENTS AND EPIDEMIOLOGY OF RODENT-BORN DISEASE

TULANE UNIVERSITY

Applications are invited for a PhD position in the Blum Lab (www.tulane.edu/~mjblum) in the Department of Ecology & Evolutionary Biology at Tulane University.

Support is available for the position through a NSF-funded, Coupled Natural and Human (CNH) systems project on the population ecology of Norway rats and epidemiology of rodent-born pathogens in New Orleans, Louisiana, USA. The successful applicant will undertake doctoral thesis research on the landscape genetics of Norway rats and rodent-born pathogens to help reconstruct the process of coupled re-assembly of socio-ecological communities in an urban ecosystem recovering from a catastrophic disaster.

This will involve conducting laboratory-based genetic studies, as well as leading or participating in field crews conducting trap-based rodent surveys and plot-based vegetation surveys across the New Orleans study region. The successful applicant also will collaborate with an interdisciplinary team of scientists (including public health professionals, sociologists, geographers, ecologists, geneticists and mathematicians) to support the development of a computational metapopulation model of rodents that will be used to assess ecological and human-health outcomes of alternative control scenarios reflecting risk perceptions, rodent abundance, and habitat suitability. In addition to contributing to research collaborations, the successful candidate will be expected to develop his/her own research questions.

Preference will be given to applicants whose research interests and expertise complement the CNH project, but outstanding applicants looking to broaden their field of interest will also be seriously considered. A BS or MS degree in ecology, evolutionary biology, population genetics, epidemiology, or a related field is also preferred.

The position is available immediately, though the start date is flexible.

To apply, email a cover letter, a CV, and the names and contact information of three references to:

Dr. Michael Blum Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 mjblum@tulane.edu

Questions about the position or project should be directed to Dr. Michael Blum (mjblum@tulane.edu).

Applications will be reviewed beginning October 15, 2013.

"Blum, Michael J" <mjblum@tulane.edu>

UAlberta EcologicalGenomics

Graduate Student Opportunities in Ecological Genomics / Molecular Ecology

Applications from highly qualified potential graduate students are invited to join my lab in the Department of Biological Sciences at the University of Alberta (http://www.biology.ualberta.ca/). I am looking for students to work with me one or more of several potential projects including (1) Mountain Goat Molecular Ecology: you would be responsible for pedigree analysis using established microsatellites, quantitative genetic analysis, and/or genomic resource development and application for the Caw Ridge study in collaboration with Prof Steeve Côté at U Laval (http://www.chaireanticosti.ulaval.ca/en/personnel/-steeve_cote/). (2) Mountain Pine Beetle System Population Genomics: many opportunities are available to study the interactions between beetles, trees and fungi using population genomics as part of the epic TRIA project (http://www.thetriaproject.ca/). (3) Grey seal genomics: you would develop genomic resources and apply them to study the genetic basis of life-history variation in Sable Island grey seals in collaboration with Dr. Don Bowen (http://bowenlab.biology.dal.ca/-index2.html) (4) Bighorn sheep genomics: several potential projects including landscape genetics, quantitative genetics and genomics using longitudinal data from long-term projects and/or population data. (5) Red squirrel genomics: pedigree construction using microsatellites, quantitative genetics and genomic resource development for the Kluane study in collaboration with Dr. Stan Boutin (http://-www.biology.ualberta.ca/faculty/?Page=3D734).

Potential graduate student applicants must have an Honour's degree in a relevant Biological Science or higher (i.e. MPhil, MSc), training and experience in molecular techniques (esp. PCR, microsatellites, DNA sequencing, SNP typing), bioinformatics (next-gen sequencing, genome and transcriptome assemby, etc...), population genetics and/or quantitative genetics. Some field experience would be an asset. Applicants must have a high GPA (3.5+ or minimum A-), be highly numerate, and possess excellent written and oral communication skills in English. International overseas students must have a peer-review publication record in English relevant to ecology and evolution. Fully funded MSc (2.3 years) or Phd (5 years) positions are potentially available to highly qualified applicants who meet the criteria for a Graduate Teaching Assistantship (see http://www.biology.ualberta.ca/programs/graduate/).

Application process: Applicants must first send a cover letter outlining their relevant background and research interests, their CV, and the names of 2-3 potential references to dcoltman@ualberta.ca. Interviews and formal invitation to apply to the graduate program in Biological Sciences may then follow for those who meet the criteria.

For Graduate Program Information see: http://-www.biology.ualberta.ca/programs/graduate/ Professor David Coltman Acting Chair, Department of Biological Sciences University of Alberta Edmonton, AB T6G 2E9

dcoltman@ualberta.ca

UFlorida HostParasiteEvolution

Graduate Students in Host/Parasite Evolution

The Reed Lab (University of Florida) is seeking graduate students (MS or PhD) interested in any of the three main research areas of my lab (http://flmnh.ufl.edu/-mammals/). These students would matriculate through the Department of Biology (www.biology.ufl.edu) and reside in my lab at The Florida Museum of Natural History (www.flmnh.ufl.edu).

Insect/endosymbiont Genomics (http://-/www.flmnh.ufl.edu/mammals/-louse_endosymbiont_genomics.htm): Many insects feed on diets that are nutritionally incomplete. The parasitic lice that feed on mammalian blood require endosymbiotic bacteria to provide nutrients missing in the louse's diet. Most insects have endosymbionts that have lived in association with them for many millions of years. Lice, however, seem to be replacing their endosymbionts every 10 million years or so. Therefore, many closely related lice have distantly related endosymbionts. We are studying the incredible genome reduction that occurs independently in these endosymbionts to better understand the process of endosymbiosis.

Human Evolution from a Lousy Perspective (http://www.flmnh.ufl.edu/mammals/-human_louse_evolution.htm): Human evolution is

studied from various types of data from fossils to molecules. In our lab we study the molecular genetics of a host-specific human parasite, lice, which have been tracking human evolutionary history for millions of years. By studying worldwide populations of lice using genetic and genomic tools we've been able to estimate when humans began wearing clothing. From our current genome studies we are investigating divergences among living lice that vastly predate divergences within their modern human hosts. These ancient divergences within lice were likely caused by close contact between modern and archaic hominids during periods of overlap. Our current and future studies will be looking at human migration patterns through fast-evolving markers in the lice.

Caribbean Bat Biodiversity (http://www.flmnh.ufl.edu/mammals/caribbean_biodiversity.htm): The Reed Lab has also been investigating the effects of climate change on populations and species of bats in the Caribbean. These studies are looking at the degree to which past sea level change fractured and reconnected populations of bats on different islands. This research uses genetic and genomic tools in both a coalescent and a phylogeographic framework as well as ecological niche modeling.

Students interested in any of these projects are encouraged to read the advice to potential students on my web page and contact me.

Best regards, David Reed

David L. Reed, Ph.D. Curator of Mammals Florida Museum of Natural History 1659 Museum Road (Dickinson Hall) University of Florida Gainesville, FL 32611 (352) 273-1971 (voice) (352) 846-0287 (fax) e-mail: dlreed@ufl.edu http://www.flmnh.ufl.edu/mammals/ dreed@flmnh.ufl.edu

UFlorida SexualSelection

Graduate student positions in insect sexual selection, behavior, and evolution at the University of Florida starting Fall 2014

The successful applicant will integrate field and laboratory based research on sexual selection using the leaf-footed cactus bug, Narnia femorata. In these insects, males have exaggerated hind femurs that they use to compete on cactus territories. Females fly into these territories to mate, feed, and lay eggs. Both males and females have mate preferences that are context-dependent according the quality of the cactus territories. The student will have considerable freedom to choose a research direction in this outstanding research system.

More information on the lab and research can be found at www.millerlab.net . Applicants should be motivated, independent, and have previous biological research experiences. Excellent grades and scores will be an advantage.

The University of Florida has a strong community of evolutionary biologists (http://evolution.group.ufl.edu/). Prospective students have the option to apply to the Entomology Program (http://entnemdept.ifas.ufl.edu/), Interdisciplinary Ecology Program (http://snre.ufl.edu/), or Genetics Program (http://ufgi.ufl.edu/). Application materials should be submitted by January 1, 2014 for full consideration for fellowship opportunities. Potential funding sources include University fellowships, research assistantships, and teaching assistantships.

Interested prospective students should contact Dr. Christine W. Miller (cwmiller@ufl.edu) well before January 1st. Applicants should have research interests that are well-matched for the lab. Include with your email the following: 1) a statement of the kinds of research questions that you would like to pursue and why they are a good fit, 2) a brief overview of your previous research experiences, 3) CV or resume, 4) GRE scores (if you have them), 5) an unofficial transcript.

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville is much more than a stereotypical college town. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, it is progressive, environmentally conscious and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant and interesting place in which to learn and to live.

Time and time again, Gainesville has been tapped as one of Florida's most liveable cities and ranked among the leaders in the United States - a reputation created by an exceptional combination of local features. Agreeable weather and lovely landscapes, attractive educational and economic opportunities, varied cultural and recreational resources, and a youthful, energetic am-

biance all contribute to the standard of living enjoyed by area residents.

Christine W. Miller Assistant Professor

Mailing address: University of Florida Entomology & Nematology Dept. Steinmetz Hall, 970 Natural Area Dr. Gainesville, FL 32611-0620 Phone: (352) 273-3917 Fax: (352) 392-0190 Email: cwmiller@ufl.edu Website: www.millerlab.net cwmiller@ufl.edu

UGroningen AvianColourPolymorphisms

The Animal Ecology Group of the University of Groningen and the Max Planck Institute of Ornithology are looking for a candidate to obtain funding for the following PhD-project:

Buzzard colour polymorphisms in space and time

Colour polymorphisms are common in raptor species. Since these morphs have a heritable basis, an important biological question is how this variation is maintained over evolutionary time. Frequency dependent selection pressures are expected, but few empirical examples from this exist in nature. Additionally, performance of morphs depends on habitat characteristics, and may vary over time. Little is known about potential long-term changes and spatial variation in morph frequencies, and how these relate to variation in fitness. Past research has illuminated a heterozygous advantage, but this may be population-specific, and fails to explain spatial variation in the distribution of morph types. In this project we aim at describing patterns of spatial and temporal variation in the colour morphs of the common buzzard, and its potential fitness consequences. For long-term temporal trends in morph frequencies and for morph-dependent fitness consequences two datasets from the Netherlands are available. The spatial variation in morphs will be investigated at different spatial scales using a variety of approaches. (1) Detailed year-round observations in several habitats in Northern Germany, (2) compiling existing data from musea and local bird organizations, (3) building up a citizen science network to let birders collect data from a large part of Europe.

At this moment no funding is available yet for this project, but currently we are applying for joint funding between the Animal Ecology Group of the University of Groningen and the Max Planck Institute of Ornithology in Seewiesen for a PhD-position working on this theme. To support our application, we are looking for a candidate with ample experience in field ornithology, an excellent background in evolutionary ecology and up-to-date statistical skills. For our funding source there are several restrictions: (1) candidates should have obtained their MSc at latest by the end of 2013, (2) cannot be of Dutch nationality, (3) must not be older than 28.

Our application will benefit from having a strong candidate, and interested people are requested to send their CV to Christiaan Both (c.both@rug.nl) and Bart Kempenaers (b.kempenaers@orn.mpg.de) before October 10, 2013. If we obtain this funding the candidate will work for her/his PhD two years at the University of Groningen and two years at the Max Planck Institute of Ornithology in Seewiesen. Further information can be obtained from Bart Kempenaers or Christiaan Both.

"C.Both" <c.both@rug.nl>

UGuelph PlantEvolution

Graduate student positions in plant evolutionary ecology at the University of Guelph

I am looking for graduate students (MSc or PhD) interested in studying plant evolutionary ecology. For more information on our ongoing projects, please see the lab website:

http://christinamariecaruso.weebly.com Students will have considerable freedom to develop their own research questions, and could start in either summer or fall 2014.

Interested candidates should email me at carusoc@uoguelph.ca. Please include a statement of interest, CV, and transcript (unofficial is fine). Because of funding restrictions, I can only consider Canadian citizens or landed immigrants for these positions.

Christina M. (Chris) Caruso Associate Professor

Department of Integrative Biology, University of Guelph, Guelph, Ontario N1G 2W1 Canada 519-824-4120 x52030 carusoc@uoguelph.ca christinamariecaruso@gmail.com http://-www.christinamariecaruso.weebly.com Christina Caruso <christinamariecaruso@gmail.com>

ULondon BatEvolutionaryGenomics

* ULondon. PhD bat evolutionary genomics** * Content:

/Evolutionary genetics of dietary adaptations in bats/

/ERC-funded PhD – start date in 2014/

/Deadline 1ˆst November 2013/

/I am seeking a highly motivated student to undertake a PhD on the evolution and genetic basis of dietary adaptations in bats./

Bats are emerging as important mammalian model organisms for understanding adaptation and development; they possess the smallest genomes of any mammals and exhibit numerous unique evolutionary innovations among mammals including powered flight, laryngeal echolocation, and diets such as blood (sanguinivory) and nectar (nectarivory). These traits are strongly implicated in the adaptive radiation and global success of bats, which number over 1200 species.

This PhD will focus on identifying the molecular adaptations that have contributed to the unparalleled dietary diversification of bats. The project will combine laboratory work and bioinformatics, and so experience in one or both of these (and a willingness to learn) is essential. There will also be opportunities to conduct fieldwork. The student will also need to be able to work independently at times, as well as part of a team.

**

/References/

/Parker J, Tsagkogeorga G, Cotton JA, Liu Y, Provero P, Stupka E & Rossiter SJ////(2013) Genome-wide signatures of convergent evolution in echolocating mammals. Nature, doi:10.1038/nature12511./

/Liu Y, Xu H, Yuan X, Rossiter SJ & Zhang S (2012) (2012) Multiple adaptive losses of alanine-glyoxylate aminotransferase mitochondrial targeting in fruit eating bats. Molecular Biology and Evolution 29, 1507-1511./

Applicants must have an excellent academic track record - a good degree (1st or 2i) in a relevant subject (e.g. biology, genetics, bioinformatics, zoology) is essential and an MSc is desirable. Please make an informal application to Stephen Rossiter (s.j.rossiter@qmul.ac.uk) by sending a CV (2 page max) with the names and contact details of two referees who you are happy for us to approach. Please include a covering letter explaining your suitability for the studentship. Formal applications should be made online by 10am on 1st November via the following site:

http://www.sbcs.qmul.ac.uk/prospectivestudents/-research/howtoapply/index.html This studentship is funded by the European Research Council and available to EU citizens. The exact start date in 2014 is negotiable depending on availability.

Stephen Rossiter <s.j.rossiter@qmul.ac.uk>

ULouisiana EvolutionaryBiology

Doctoral Fellowships and other assistantships available for entering Ph.D. students in Environmental and Evolutionary Biology at the University of Louisiana

Our program will be awarding University of Louisiana Fellowships and Board of Regents Fellowships to Ph.D. students entering Spring and Fall 2014. UL Fellows are funded for 3-4 years and have limited teaching responsibilities, while BoR Fellows are funded for 4 years and have no formal teaching duties. Stipends are up to $28,000 per year (plus tuition waiver). Eligibility requirements include US citizenship (or permanent residency) or degree from a US institution. We will also have teaching assistantships available for incoming Ph.D. students. Potential applicants are strongly encouraged to directly contact prospective advisors, whose contact information and research interests can be found at our departmental web site (http://-biology.ucs.louisiana.edu), which also has a link to our graduate programs (http://biology.ucs.louisiana.edu/-content/graduate-programs). The Department of Biology has approximately 75 graduate students and 25 graduate faculty members conducting research on a wide variety of topics. For further information, contact the Graduate Admissions Chair at france@louisiana.edu.

Scott C. France france@louisiana.edu Associate Professor & Graduate Admissions Chair Department of Biology University of Louisiana at Lafayette P.O. Box 42451 Lafayette, LA 70504

For more information about the graduate program please visit: http://biology.ucs.louisiana.edu/content/-graduate-programs Office: (337) 482-6320 Lab: (337)

482-6494 FAX: (337) 482-5834 For information on my research please visit: http://www.ucs.louisiana.edu/~scf4101/ "To learn and from time to time to apply what one has learned - isn't that a pleasure?" - Confucius, 500 B.C.

scf4101@louisiana.edu

UMaryland EnviSci TreeClimateAdaptation

2 PhD positions in forest tree responses to climate change

University of Maryland Center for Environmental Science Appalachian Laboratory, Frostburg, MD

Applications are invited for two NSF-funded PhD student assistantships at the University of Maryland Center for Environmental Science, Appalachian Laboratory (AL). We are seeking self-motivated students interested in working on tree responses to climate change using (1) macroecological modeling and remote sensing (Position 1), and (2) ecological genomics (Position 2). Students will join an interactive and growing team of ecologists and geneticists at AL working on understanding the responses of forest trees to climate variability.

Position 1: Macroecological modeling and remote sensing The main project for this student is to combine macroecological approaches and remote sensing to link intraspecific variation (genetic composition, phenology, functional traits, etc) and environmental gradients at geographic scales, with an emphasis on understanding the response of forest trees to climate change. The student will help extend existing approaches in distribution modeling (e.g., species distribution models, community-level models) to model and map intraspecific variation at regional to continental scales and identify the geographic regions containing populations pre/mal-adapted to future climate change. Within this framework, there are numerous opportunities for a student to extend the broader project objectives. This is an ideal project for an individual interested in macroecology, remote sensing, and species distribution modeling. Candidates should have some experience with GIS and statistical analyses implemented in R.

Position 2: Ecological genomics The focus of this student will be identifying the genomic basis of ecologically important traits involved in adaptation of forest trees to climate, especially along the southern range edge where growing seasons are early and long. This project will involve integrating next-generation sequencing with physiological traits and climate data to search for genotype-phenotype and genotype-environment associations indicative of local adaptation. This is an ideal position for students excited about using the latest genomic techniques to study fundamental issues in local adaptation, environmental change, and the effects of range limits. Previous experience in population genetics, plant ecology, and solid computer skills are required. Some programming experience (Perl, R) is a plus.

Both positions are based at the Appalachian Laboratory in Frostburg, Maryland, working with Drs. Matt Fitzpatrick (macroecology) and Andrew Elmore (remote sensing), and Stephen Keller (genomics). The positions come with a highly competitive stipend and benefits package, including 3 years of support on a research assistantship, with additional support available from teaching assistantships. Students will matriculate through the Marine, Estuarine, and Environmental Sciences Program (MEES) at the University of Maryland, College Park and will reside at the Appalachian Laboratory in Frostburg for the duration of the project. Frostburg is a small college town in the mountains of western Maryland, providing abundant outdoor recreation opportunities.

For more information, contact Matt Fitzpatrick (mfitzpatrick@umces.edu) or Steve Keller (skeller@umces.edu). To apply, please email as a single pdf document: (1) a statement of interest, (2) a CV, and (3) contact information for three referees to tree_grad@al.umces.edu. Please indicate in your subject line "macroecology" or "genomics" to indicate the position of interest. Review of applications will begin November 1, 2013 and will continue until suitable candidates are found, with starting dates available as soon as January 2014 and no later than Fall semester 2014.

This ad is also posted at http://www.umces.edu/al/employment

Stephen R. Keller Assistant Professor Appalachian Laboratory University of Maryland Center for Environmental Science 301 Braddock Rd. Frostburg, MD 21532 301-689-7203 http://skeller.al.umces.edu/ skeller@al.umces.edu

UMaryland BaltimoreC MatingBehaviorSpeciation

A PhD Research Assistantship is available in the laboratory of Dr. Tamra Mendelson, in the Biological Sciences department at the University of Maryland Baltimore County (UMBC). Research in the Mendelson lab relates to sexual selection, the evolution of mating behavior, and speciation in darter fish. We are an active group of researchers, passionate about our questions, field work, and study system. We are also part of a larger interactive group of evolutionary biologists and ecologists, including Dr. Kevin Omland (phylogenetic comparative methods), Dr. Jeff Leips (ecological genetics), Dr. Bernie Lohr (animal communication), Dr. Tom Cronin (visual ecology), and others. Students interested in a PhD position in any of these labs are welcome to contact professors directly, as some openings are available.

The research assistantship entails overseeing two aquarium facilities, one for darters and one for zebrafish, the latter in the laboratory of Dr. Rachel Brewster (developmental neurobiology). Managing the fish facilities requires a time commitment equivalent to that of a Teaching Assistantship, and funding is guaranteed for five years.

Please contact Tamra Mendelson tamram@umbc.edu for further information.

Tamra Mendelson Associate Professor Department of Biological Sciences University of Maryland Baltimore County tamram@umbc.edu - 410-455-2267 http://biology.umbc.edu/directory/faculty/mendelson/
bamra Mendelson <tamram@umbc.edu>

UNewHampshire EvolutionaryGenomics

Graduate Student in Evolutionary Genomics

I am seeking graduate students (MS or PhD) interested in studying Evolutionary Genomics, broadly defined, at the University of New Hampshire Department of Molecular Cellular and Biomedical Sciences.

The MacManes lab (http://genomebio.org/) is interested in understanding adaptation to extreme environments. We use a combination of field biology, computation, genomics, and molecular biology. We currently have projects involving a diverse group of animals including frogs, spiders, and insects, though the main project involves understanding how desert rodents survive extreme heat and aridity using whole genome and transcriptome approaches.

Information on Graduate Studies in the Department of Molecular Cellular and Biomedical Sciences is available at http://www.gradschool.unh.edu/apply.php and http://mcbs.unh.edu/

The University of New Hampshire has a competitive suite of funding mechanisms including fellowships, graduate research assistantships, and teaching assistantships. In addition to this, I encourage students to apply for extramural fellowships (NSF, NIH), including before entry into the program.

The Department is home to faculty with broad interests in ecology, evolution, and conservation. In addition, 3 new genomics faculty will be joining the Department within the next year, with the result that genome enabled biology will become an active research cluster.

Please contact Dr. Matthew MacManes (matthew.macmanes—at—unh.edu) for informal inquiries. Interested students should send a CV that includes education and research experience, along with a brief statement of your specific research interests.

Matthew MacManes http://genomebio.org/-matthew.macmanes@unh.edu

Matthew MacManes, Ph.D. University of New Hampshire I Assistant Professor Department of Molecular, Cellular, & Biomedical Sciences Durham, NH 03824 Phone: 510-495-5833 I Twitter: @PeroMHC< https://twitter.com/PeroMHC > Web: genomebio.org< http://genomebio.org/ > Office: 189 Rudman Hall

“Macmanes, Matthew” <Matthew.Macmanes@unh.edu>

UQueensland EvolQuantGen

Graduate Students in Evolutionary Quantitative Genetics & Genomics

Applications for PhD positions in Evolutionary Quantitative Genetics are invited in the lab of Steve

Chenoweth at the University of Queensland. Our group has keen interests in the application of quantitative genetic approaches to understand the evolution of sexual dimorphism, the genomic targets of natural and sexual selection and the evolution of multiple correlated traits. Applicants interested in any of these areas are invited to develop applications in consultation with the PI. For empirical work, our lab uses both model and non-model Drosophila and we have recently developed genomic resources for Drosophila serrata. De novo genome and transcriptome assemblies, living genomic resources including a panel of more than 100 re-sequenced lines and multiple sets of evolving populations are now available. Projects will use these resources alongside high-throughput phenotyping (e.g. cuticular hydrocarbons, gene expression and metabolites) to develop powerful genomic screens that can be coupled with classic quantitative genetic analyses.

Applicants require strong written communication and quantitative skills. Prior training in the following areas is highly desirable but not essential: quantitative or population genetics, bioinformatics, genomics or evolutionary biology.

Qualifications

Applicants require either a Bachelor's degree with Honours, 'Master of Science, MPhil or equivalent degrees. International applicants usually will have begun to publish their work in peer-reviewed journals. Australian and New Zealand applicants must have received first class Honours degrees. Scholarship schemes at the University of Queensland are highly competitive. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (http://www.uq.edu.au/-grad-school/our-research-degrees) and scholarship details. Individuals successful in gaining a tuition-fee waiver scholarship usually also obtain a living stipend.

Application process Interested candidates should send a cover letter describing their motivation and research interests along with a CV to s.chenoweth@uq.edu.au by Wednesday September 25th 2013. Short-listed candidates will be asked to provide further information and documentation and will be interviewed over Skype. Following, the final applicants will be invited to apply for a PhD at UQ. For further information on the UQapplication process please contact the Postgraduate Administration Officer Gail Walter gj.walter@uq.edu.au

UQ and the School of Biological Sciences The School of Biological Sciences is a large and research-intensive unit at theUniversity of Queensland, one of Australia's most prestigious Universities. The School has broad expertise across the disciplines of ecology and evolution,molecular and quantitative genetics, developmental biology, behaviour, plant and animal physiology, and conservation biology. Our research programs span all scales of biological organisation, from molecules and cells, to organisms, populations, species and communities, and take advantage of study animal and plant systems in a large variety of habitats (see http://-www.biology.uq.edu.au/ for detailed information on our research programs).

Steve Chenoweth Associate Professor School of Biological Sciences University of Queensland St. Lucia, QLD 4072 Australia

www.chenowethlab.org s.chenoweth@uq.edu.au

UVienna PolyploidEvolGenomics

The Department for Systematics and Evolutionary Botany at the University of Vienna, Austria is recruiting a PhD student in Plant Evolutionary Biology

A 3 years PhD position funded by the Austrian Science Fund (FWF) is immediately available in the research group of Ovidiu Paun at the University of Vienna. The student will be involved in research on the evolution of wild Dactylorhiza allopolyploids (see www.botanik.univie.ac.at/-systematik/projects/dactylorhiza/), which include an array of sibling lineages that are ecologically and morphologically distinct. We will combine the most recent genomic and epigenomic technologies with field experiments to investigate the nature and adaptive value of the molecular diversity produced by iterative allopolyploidizations to result in rapid ecological diversification. Our final aim is to test if epigenetic variation can drive adaptation to different environments and play a role in speciation.

We are looking for a highly motivated candidate with an excellent academic track record. A MSc degree in a related discipline (e.g., genetics, bioinformatics, evolution, molecular ecology) is desirable. The successful candidate is expected to be able to demonstrate some previous experience in evolutionary studies. Experience with next generation sequencing methodology (wet lab or bioinformatics) is an advantage, but not a must. The student is expected to have excellent organization and communication skills. The position offers a competitive salary (of ca. 27,000 per year before tax according to FWF regulations including social and health se-

curity), the opportunity to attend at least one workshop/summer school and one international conference, and to shortly visit one of the labs of our collaborators. Field work across large European areas will be undertaken in early summer 2014.

The working language in the laboratory is English. German skills are not essential, but can be helpful for everyday life in Vienna. Vienna is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities. The presence of several outstanding research groups (see www.univie.ac.at/evolvienna/) make Vienna a hot spot of evolutionary research and offers ample opportunities for interactions with peers.

To be considered please send your application per email to ovidiu.paun@univie.ac.at including your CV, a one page essay on the role of epigenetics in evolution and the names and contacts of three academic referees. Screening of applications will begin immediately and will continue until the position is filled. The latest preferred start date is January 1st, 2014.

Ovidiu

Dr. Ovidiu Paun Department for Systematic and Evolutionary Botany University of Vienna Rennweg 14, A - 1030 Vienna eMail: ovidiu.paun@univie.ac.at www.botanik.univie.ac.at/systematik/projects/-dactylorhiza ovidiu.paun@univie.ac.at

UWyoming EcolEvolBiolConservation

Berry Graduate Student Fellowships at the University of Wyoming

Berry Graduate Student Fellowships are intended for outstanding students interested in pursuing a MS or PhD with an emphasis in ecology, evolution, and/or conservation. Applicants must have a faculty advisor from the Department of Zoology and Physiology (http://www.uwyo.edu/zoology/). Students currently in a graduate program at UW are ineligible. The initial fellowship period is one year, renewable for up to three years contingent on performance. Starting date is August 2014.

Berry Fellow will receive an annual stipend of $24,000 and a research fund of $5,000 per year. They will be eligible for UW benefits.

Application Procedure

The applicant must first contact a faculty member in the Department of Zoology and Physiology to arrange sponsorship. Once an advisor is arranged, the applicant needs to submit, in a single PDF file: a cover letter including the name of their faculty sponsor, a two-page research interest and goals statement, a CV, and GRE scores. Separately, applicants need to ensure that three letters of recommendation and a letter of support for their faculty sponsor are received by the committee. All materials should be sent to the Berry Fellowship Committee <cbenkman [at] uwyo.edu> by 10 January 2014. Applicants will also need to apply to the Graduate Program in the Department of Zoology and Physiology. Refer to the following url for applying: http://www.uwyo.edu/zoology/grad%5Fdegrees/-apply_grad.html Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com 307.766.6169 mcarling@uwyo.edu

mcarling@uwyo.edu

UZurich EvolutionaryMorphology-Paleobiology

"Open PhD positions in Fish / Mammal skeletal and life history evolution

The Evolutionary Morphology and Paleobiology of Vertebrates group at the Paleontological Institute of the University of Zurich invites applications for two PhD positions (3 years funding, with potential extension). The successful candidates will work in a Swiss National Science Foundation supported research project under the supervision of Prof. Marcelo Sánchez. The PhD projects will build upon an existing research program (http://www.msanchezlab.net/) and include museum visits world-wide, paleontological fieldwork, and lab work. Those interested should check our website for our publications and current research projects. Subjects will involve life history evolution, involving skeletal and dental evolution in extant and extinct forms. Details about the PhD projects will be discussed upon interviews with the best-qualified applicants and the candidates are expected to co-develop her/his project.

The ideal candidate will be a highly-motivated biologist with neontological or paleontological background. Previous participation in research activities and excel-

lent writing skills in English are required, knowledge of speaking German is desirable but not mandatory. Perspective students are expected to have received their Master's degree or equivalent by the start of the Ph.D. program. The selected candidate will be expected to help in teaching and writing a proposal for funding.

HOW TO APPLY: Send the following by email: I) a one- to two-page application letter addressing, but not limited to the following questions: a) Why are you interested in a PhD in this research area?b) What are your career goals? II) A detailed curriculum vitae, including a list of lab, field, analytical, and linguistic skills, presentations at scientific meetings, and publications (if applicable); III) A copy of your undergraduate and graduate academic records; IV) names of two or three people who upon request could comment on your intellectual and academic skills; your dedication to science and your ability to work cooperatively in a team.

'Soft' DEADLINE FOR APPLICATION: 4. October, 2013. If needed, the position will remain open until a suitable candidate is found.

STARTING DATE: late 2013, early 2014 (negotiable).

The University of Zürich is one of the top comprehensive institutions in Europe and Zurich, in close proximity to the Alps, and offers the conditions for an excellent quality of life. With a critical mass of researchers in Paleontology and Evolutionary Biology at the University and the neighbouring Swiss Federal Institute of Technology (ETH Zurich), Zurich offers an exceptional academic environment for research and study. The Institute of Paleontology of the University of Zurich offers state-of-the-art research facilities in an international and stimulating academic environment.

Please send enquiries and applications by email to Alexandra Wegmann (alexandra.wegmann@pim.uzh.ch)"

Alexandra Wegmann <alexandra.wegmann@pim.uzh.ch>

UZurich Paleobiology

"Open PhD position in Sensory Paleoecology in Secondary Aquatic Reptiles

The Evolutionary Morphology and Paleobiology of Vertebrates group at the Paleontological Institute of the University of Zurich invites applications for a PhD position (3 years funding, with potential extension). The successful candidate will work in a Swiss National Science Foundation supported research project under the supervision of Dr. Torsten Scheyer. The PhD project will build upon an existing research program (http://-/www.msanchezlab.net/) and include museum visits world-wide, paleontological fieldwork, and lab work. Those interested should check our website for publications and current research projects. Subjects will involve the study of the early evolution and radiation of secondary marine reptiles and the osteological correlates of sensory organs in those groups. Details about the PhD projects will be discussed during interviews with the best-qualified applicants and the candidates are expected to provide input on the development of her/his project. The selected candidate will be expected to help in teaching and writing funding proposals.

The ideal candidate will be a highly-motivated paleontologist or biologist with neontological or paleontological background. Previous participation in research activities and excellent writing skills in English are required, German language skills, as well as knowledge on cranial/sensory anatomy and statistics is desirable but not mandatory. Perspective students are expected to have received their Master's degree or equivalent by the start of the PhD program.

HOW TO APPLY: Send the following by email: I) a one- to two-page application letter addressing, but not limited to the following questions: a) Why are you interested in a PhD in this research area? b) What are your career goals? II) a detailed curriculum vitae, including a list of lab, field, analytical, and linguistic skills, presentations at scientific meetings, and publications (if applicable); III) a copy of your undergraduate and graduate academic records; IV) if possible an electronic copy of your Master's Thesis; V) names of two or three people who upon request could comment on your intellectual and academic skills, your dedication to science and your ability to work cooperatively in a team.

'Soft' DEADLINE FOR APPLICATION: 4. October, 2013.

STARTING DATE: January 2014 (negotiable).

The University of Zurich is one of the top comprehensive institutions in Europe.Zurich, in close proximity to the Alps, offers the conditions for an excellent quality of life. With a critical mass of researchers in Paleontology and Evolutionary Biology at the University and the neighbouring Swiss Federal Institute of Technology (ETH Zurich), Zurich offers an exceptional academic environment for research and study. The Institute of Paleontology of the University of Zurich offers state-of-

the-art research facilities in an international and stimulating academic environment.

Please send enquiries and applications by email to Dr. Torsten Scheyer (tscheyer@pim.uzh.ch)"

Alexandra Wegmann <alexandra.wegmann@pim.uzh.ch>

UppsalaU PlantEvolution

PhD position in Plant Ecology, EBC, Uppsala University: Orchid population viability and life history variation (UFV-PA 2013/2289)

http://www.uu.se/jobb/?languageId=3D1 (see attached add)

Starting date: 1 Nov 2013 (or as agreed).

In this project we combine long-term demographic monitoring in natural and managed field populations with experimental approaches targeted at the most uncertain life cycle transitions in orchid populations (germination and dormancy). The long-term goal is to produce knowledge that will underpin management decisions and future conservation strategies for several declining and threatened species. This includes both ecological (population viability) and evolutionary (lifetime selection on life history traits) population trajectories. The project is a collaboration between Uppsala University and the Norwegian University of Science and Technology (NTNU).

The candidate will link existing demographic data with new field experiments. Specific approaches will include 1) comparative demographic analyses to evaluate whether effects of climate and land-use change are similar across species and sites, 2) field experiments inducing variation in reproductive effort to determine the shape of the cost of reproduction function in several species, and 3) population modelling linking fitness components to life-time fitness, to examine population viability and selection on life history in relation to land-use and climate.

Candidates require a master degree in ecology, and should have a keen interest in plant population ecology and evolutionary ecology. Experience with ecological field experiments, statistical analyses and demographic population modelling (in particular using matrix or integral projection models in R) are considered merits. Proficiency in English is a requirement.

The application should include a letter of motivation for PhD studies and for this topic in particular, as well as a description of previous education, research interests and experience. It should further include a CV, authorized copies of degrees and transcripts of academic records, and contact information (e-mail and phone) for at least two references. MSc thesis and other relevant publications should be enclosed.

The postgraduate training comprises four years of full time studies. The successful candidate will receive a postgraduate position (currently 23100-27500 SEK/month). The position can be combined with up to 20% of teaching assistantship, which will then prolong the position accordingly.

For more information contact Assistant Professor Nina Sletvold (phone +46 18 471 2871, e-mail:nina.sletvold@ebc.uu.se).

Nina Sletvold Plant Ecology and Evolution Dept of Ecology and Genetics, EBC Uppsala University Norbyvägen 18 D SE-752 36 Uppsala Sweden

nina.sletvold@ebc.uu.se

Jobs

AmherstCollege ResAssist EvolutionDisease

AmherstCollege.EvolutionDisease.ResAssist

RESEARCH ASSISTANT POSITION

EVOLUTIONARY ECOLOGY OF INFECTIOUS DISEASE

The Hood Lab (http://www.amherst.edu/ ˜ mhood/-mehood.htm) in the Biology Department at Amherst College is seeking to fill a full-time research assistant position. The position is for one year, and there is the possibility to reappointment for a second year. Ongoing projects address the evolutionary ecology of infectious disease in natural plant populations. Activities in this lab span a wide range of approaches, including molecular genetics, population biology, and greenhouse/field work. The research assistant will gain experience and participate in each of these activities as well as in general lab maintenance and operation. Start date will be as early as October 1, 2013.

Qualifications: Bachelors degree in biology or related field, previous laboratory experience, and motivation to engage in biology research are expected.

To apply online, please visit our web site at https://-

jobs.amherst.edu Amherst College is an equal opportunity employer and encourages women, persons of color, and persons with disabilities to apply. The College is committed to enriching its educational experience and its culture through the diversity of its faculty, administration, and staff.

Michael E. Hood

Associate Professor Biology Department Amherst College Amherst, MA USA 01002-5000 ph (413) 542-8538 email: MHood@amherst.edu http:/-/www.amherst.edu/ ˜ mhood/ Michael Hood <mhood@amherst.edu>

AuburnU LabTech Genomics

Lab technician position in Drosophila Evolutionary and Functional Genomics at Auburn University, Auburn, Al.

The Graze Lab is looking for a full time lab manager. We use Drosophila as a model system to understand a. the role of gene regulation in the path from genotype to phenotype and b. how regulatory networks affect variability in complex traits and their evolution.

The lab technician will be responsible for laboratory management and assisting with research, including DNA/RNA extractions, next-generation sequencing, behavioral assays, rDNA/transgenics, data handling and analysis. This will require knowledge of biology and genetics as well as organizational and management skills.

Essential duties include:

-management of undergraduate volunteers -preparation of common reagents/media -fruit fly stock maintenance -inventory control and ordering of supplies -interfacing with vendors -the up-keep of instrumentation and equipment

Desired qualifications:

- prior experience in lab management - prior experience in a molecular genetics or genomics lab - prior experience with Drosophila - bioinformatic and/or statistical skills - bachelor's or higher in biology, genetics or a related field.

To apply, please go to www.auemployment.com/-applicants/Central?quickFind7160 . **This is a 2 year limited term appointment. Continuation of employment is contingent upon availability of funds.**

Rita M. Graze, Asst. Professor Department of Biological Sciences Auburn University, Auburn AL 36849-5407 Voicemail: (352) 448-9481 Email: rmgraze@auburn.edu

rmg0022@auburn.edu

ButlerU MicrobialEvolution

The Department of Biological Sciences invites applications for a tenure-track Assistant Professor position in microbial ecology beginning in August 2014. We are searching for an individual to complement the teaching and research areas of the current faculty. Teaching responsibilities will include an introductory ecology/evolution course and an introductory course in either genetics or cell and molecular biology; an upper-level elective; and an occasional seminar in the candidate's area of specialization. Typical teaching load is 18 credit hours per year. Successful candidates will be expected to sustain a research program involving undergraduates. Candidates whose research involves genomics/bioinformatics are especially encouraged to apply.

Applicants should have a Ph.D., teaching experience, a strong commitment to undergraduate education, and an interest in working with diverse populations of students. Butler has an established undergraduate research program supported by institutional funds. Start-up funds are available for the position.

Applicants should submit a single complete PDF document consisting of a cover letter, curriculum vitae, statement of teaching interests and philosophy, statement of current and planned research, and unofficial transcripts to Dr. Philip Villani (pvillani@butler.edu). Three letters of recommendation (including one from the candidate's current position) should be emailed under separate cover. Evaluation of applications will begin immediately upon receipt and preference will be given to those received by October 18th.

Butler University is committed to enhancing the diversity of the student body, faculty and staff. In addition, hiring decisions are made on the basis of an individual's qualifications, past experience, overall performance and other employment-related criteria. Butler University provides equal opportunities for employment and advancement for all individuals, regardless of age, gender, race, religion, color, disability, veteran status, sexual orientation, national origin, or any other legally pro-

tected category.

"Stoehr, Andrew" <astoehr@butler.edu>

CarletonU Bioinformatics

The Department of Biology at Carleton University invites applications for a tenure-track position in Bioinformatics or Computational Biology at the rank of Assistant Professor starting July 2014.The Department is interested in candidates with expertise in areas including, but not limited to, high-throughput data analysis, statistical inference, evolutionary genetics, protein function and structure, modeling, and comparative genomics. The successful candidate will be expected to run an independent, externally funded research program. Collaborative research with other members of the Department and within the Carleton community will be encouraged. The successful applicant will mentor students at the undergraduate and graduate levels, and will contribute to undergraduate and graduate teaching.For more details, please visit http://www5.carleton.ca/facultyrecruitment/2013/-biology-bioinformatics-assistant-professor-closing-date-november-1-2013 Alex Wong

Assistant Professor Department of Biology Carleton University

Alex.Wong@carleton.ca

CentreCollege Kentucky GeneticsMicroEvolution

Centre College invites applications for two tenure-track Assistant Professor of Biology positions, beginning August 2014. Candidates with experience in teaching and/or research in genetics are preferred. Teaching and/or research experience in aquatic biology is desired for one position. Successful applicants will have completed a Ph.D. in the biological sciences and must demonstrate a commitment to excellence in both teaching and scholarship.

In a three year cycle, successful candidates for both positions can expect to teach the following courses: introductory biology (evolution, diversity, ecology), introductory genetics, senior seminar, and a new course in the candidate's area of specialization that complements existing offerings. Additional courses to be staffed between the two positions include microevolution and freshwater biology. Participation in non-majors courses offered at the college (first-year studies, environmental studies, or natural sciences) is also anticipated.

Collaborative research with undergraduates is both expected and supported. The biology program is housed in the recently renovated Young Hall which provides modern instrumentation and lab facilities for both teaching and research.

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*Centre College is a highly selective undergraduate institution of 1,300 students that is consistently ranked in the top tier of liberal arts colleges of national stature. Classes are small and academic standards are high. The college is located in Danville, Kentucky, a town of 18,000 acclaimed for its rich history and quality of life. It is within easy driving distance of Lexington, Louisville, and Cincinnati. Centre College is committed to ethnic and cultural diversity among its community of scholars and educators. * * Qualifications*

A Ph.D. is required.

Application Instructions

To apply, please go to http://www.interfolio.com/-apply/22426. The deadline for applications is October 7, 2013

sunrise417@gmail.com

ClarkU Genomics

Faculty position in Genomics

The Department of Biology at Clark University, Worcester MA (www.clarku.edu/departments/-biology/) invites applications for a tenure-track appointment at the rank of Assistant Professor to begin Fall 2014. The successful candidate will have research space in the LEED-certified Lasry Center for Biosciences and is expected to develop an externally-funded research program involving Ph.D., MS, and undergraduate students in Biology or in Biochemistry and Molecular Biology (BCMB). Postdoctoral experience and evidence of external funding success are desired. Promise of teaching excellence at undergraduate and

graduate levels is expected. Any area of genomics or genome-enabled research will be considered. The successful candidate is likely to teach genetics and courses in their area of expertise.

Applicants should submit a curriculum vitae, statements of research and teaching interests, and three key publications in one electronic file. Three letters of reference should be submitted electronically by the referees to the Genomics Search Committee (genomics @clarku.edu). Letters can also be mailed to the Chair of the Genomics Search Committee, Department of Biology, Clark University, 950 Main St, Worcester, MA 01610-1477. E-mail inquiries may be directed to Susan Foster (sfoster@clarku.edu). Review of applications will begin November 1, 2013. Clark University is committed to sustaining a diverse and inclusive community that cultivates ethical and well-informed citizens. We especially welcome candidates who can contribute to this mission through research, teaching and/or service. AA/EOE. Minorities and women are strongly encouraged to apply.

NMeyer@clarku.edu

CollegeCharleston Biodiversity

Community or Ecosystem Ecologist

Assistant Professor. The Department of Biology at the College of Charleston invites applications for a tenure-track position in Community or Ecosystem Ecology at the Assistant Professor level to begin August 2014. Candidates must have a Ph.D. in the biological sciences and a strong commitment to teaching and maintaining an active research program involving undergraduates. The area of research is open, but particular consideration will be given to candidates whose interests complement those of the existing faculty of the Department of Biology. Primary teaching responsibilities will include a sophomore-level course in biodiversity, ecology and conservation biology, with the opportunity to develop specialty courses in an area of expertise. The College of Charleston, located in Charleston, SC, is a public liberal arts and sciences institution of 11,000 students, with MS programs in Marine Biology and Environmental Studies, and a commitment to excellence in teaching and research. Information about the department is available at http://biology.cofc.edu/. Applicants should submit electronic (pdf) copies of their curriculum vitae, statement of teaching and research interests, up to three relevant publications, and a list with names and contact information for three referees, to the following site: https://jobs.cofc.edu/postings/-2067. Review of applications will begin October 20, 2013 and will continue until the position is filled. The College of Charleston is an Affirmative Action, Equal Opportunity Employer and is committed to increasing the diversity of our faculty and staff. We welcome applications from women and minority groups, as well as others who would bring additional dimensions to the College.

"Murren, Courtney J" <MurrenC@cofc.edu>

CornellU BioinformaticsQuantitativeGenetics

Bioinformatics and Quantitative Genetics Researchers

The Buckler Lab at the Institute for Genomic Diversity, Cornell University is beginning two exciting new projects to identify the deleterious mutations in functional domains of the maize and cassava genomes, and then build models to predict performance based on these deleterious polymorphisms. We are looking to hire three researchers with a background in machine learning, bioinformatics of genomic data, and/or statistical genetics. Strong skills in computer programming are necessary.

Maize has a long been established as a premier system for studying quantitative and statistical genetics, and our group is now using it as a model for the study of the impact of rare alleles and genetic load in maize. We are creating models that bridge genomics with quantitative genetics. We are asking similar questions in cassava. Cassava is one of the most important crops to subsistence in the world, yet until recently very little genomics was applied to improving the crop. The cassava project is in collaboration with a large genomic-assisted breeding effort to take genomic findings to the field. This project has an exciting potential of furthering basic science and applying it quickly to agriculture for the developing world.

If you are interested, please send your CV and cover letter to Sara Miller at sjm336@cornell.edu. More details about the Buckler Lab can be found at http://-www.maizegenetics.net/ . sara.miller@cornell.edu

CornellU ComputationBiology

Faculty position in Computational Biology at Cornell

A tenure-track faculty position is open at the Assistant or Associate Professor level with a primary appointment in Cornells Department of Biological Statistics and Computational Biology. Applicants must possess a PhD in biology, computer science, statistics, or a related field, and a primary interest in understanding biological phenomena through the development and use of computational and statistical methods.

Outstanding applicants in all areas of computational biology will be considered, but research areas of special interest include comparative and population genomics; functional genomics; gene regulation; dynamical behavior at the sub-cellular and cellular levels; and networks in biological systems. Additional information about the position is available at www.bscb.cornell.edu/-FacultyJobSearch . To ensure full consideration, applications should be received by December 1, 2013, but they will be accepted until the position is filled. Applicants should submit a curriculum vitae, research and teaching statements and should arrange to have three reference letters submitted via AcademicJobsOnline (see https://academicjobsonline.org/ajo/jobs/3215).

Cornell University is an equal opportunity employer and welcomes applications from women and ethnic minorities.

Adam Charles Siepel <acs4@cornell.edu>

CornellU ComputationalBiology 2

Faculty position in Computational Biology at Cornell

A tenure-track faculty position is open at the Assistant or Associate Professor level with a primary appointment in Cornells Department of Biological Statistics and Computational Biology. Applicants must possess a PhD in biology, computer science, statistics, or a related field, and a primary interest in understanding biological phenomena through the development and use of computational and statistical methods.

Outstanding applicants in all areas of computational biology will be considered, but research areas of special interest include comparative and population genomics; functional genomics; gene regulation; dynamical behavior at the sub-cellular and cellular levels; and networks in biological systems. Additional information about the position is available at http://bscb.cornell.edu/home/-faculty-position-available .

To ensure full consideration, applications should be received by December 1, 2013, but they will be accepted until the position is filled. Applicants should submit a curriculum vitae, research and teaching statements and should arrange to have three reference letters submitted at https://academicjobsonline.org/ajo/jobs/3215 .

Cornell University is an equal opportunity employer and welcomes applications from women and ethnic minorities.

Adam Charles Siepel <acs4@cornell.edu>

CornellU GenomicsOfGeneRegulation

Genomic Approaches to the Study of Gene Regulation. The Department of Molecular Biology and Genetics, Cornell University, invites applications for a tenure-track faculty position at the Assistant Professor level. The ideal candidate will apply both experimental and bioinformatics approaches to study gene regulation. Individuals seeking a creative integration of experimental, computational and comparative approaches will find Cornell a particularly rich environment in which to work (see http://mbg.cornell.edu/cals/mbg/-mbg-search.cfm). An advanced degree (Ph.D., M.D., or equivalent) is required and postgraduate training is highly desirable. Candidates should submit to https:/-/academicjobsonline.org/ajo/jobs/3254 a CV, a two to four page research statement, which indicates how your program could synergize with existing Cornell faculty, a one page teaching statement, and pdfs of two of your most significant papers. Application review begins on November 15, 2013. We encourage women and members of underrepresented minority groups to apply. Cornell University is an equal opportunity, affirmative action employer and educator.

"Charles F. Aquadro" <cfa1@cornell.edu>

Eawag EcolEvolutionaryGenomicsFish

This is a reminder that we still have searches for 3 different jobs in ecological and evolutionary genomics of fish in my department at Eawag and University of Bern.

All three have closing deadlines of September 30. The announcements were earlier posted individually, and they are repeated below.

best wishes

Ole Seehausen

(1) tenure track group leader position Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based and internationally networked aquatic research institute within the ETH domain (Swiss Federal Institute of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water resources and aquatic ecosystems.

The Fish Ecology & Evolution Department located in Kastanienbaum (Lucerne) has a vacancy for a Group Leader in Ecological and Evolutionary Genomics of Fish (Tenure Track)

Applications are sought from individuals with an excellent research record in ecological or evolutionary genomics, an earned doctorate in a relevant field (e.g., genetics or evolution), and an interest in applying genomic research to understanding the genetic basis of variation in the behavior, ecology and adaptations of fish. Experience with studying fish is desirable but not absolutely required.

The Center for Ecology, Evolution & Biogeochemistry (http://www.eawag.ch/forschung/cc/ceeb/index_EN) and the Department of Fish Ecology and Evolution (http://www.eawag.ch/forschung/fishec/index_EN) provide excellent opportunities for collaborative research. The CEEB is a cluster of research groups dedicated to the integration of evolutionary biology and ecosystem science. The Department is also closely affiliated with the Institute of Ecology & Evolution at the University of Bern through the joint appointment of Prof. Ole Seehausen. The successful candidate should take advantage of this collaborative environment and of Eawag's world-class infrastructure and facilities to develop a strong research program, acquire third party funding to support it, recruit PhD and Masters students, and contribute to Eawag's mandate in teaching and expert consulting. A successful conclusion of the tenure track will lead to a permanent position at Eawag.

Applications must be submitted by 30 September 2013 and should include an application letter describing your interests and their relevance to this position, a CV and list of publications, and the names and contact information for three references. Applications from women are especially welcome. Applications from mid-career and established researchers are encouraged; the level of the appointment will be commensurate with experience. Eawag is committed to promote equal opportunities for women and men and to support the compatibility of family and work. The earliest starting date for the position is anticipated to be 1 April 2014. For further information, please contact Prof. Ole Seehausen (ole.seehausen@eawag.ch).

We look forward to receiving your application. Please click on the link below to send your application, any other way of applying will not be considered. The link will take you directly to the application form. http://internet1.refline.ch/673277/0213/-++publications++/1/index.html (2) Postdoc Ecological genomic of speciation in cichlid fish, University of Bern and Eawag

A Swiss Science Foundation postdoctoral researcher position is available immediately in the Seehausen group at University of Bern and Eawag to work on constraints to speciation in cichlid fish, using a combination of African fieldwork, next generation sequencing, and ecological, phenotypic and genomic data analysis.

We are a large and interactive research group, with many people working on speciation and adaptive radiation in African cichlid fish and postglacial European fish, and others working in field-based and experimental evolutionary ecology, community ecology and conservation biology.

We are looking for an enthusiastic and interactive researcher, with a strong background in ecology and evolutionary biology and good knowledge of the R programming environment. Experience with field work in the tropics, ideally with fish, will be very helpful. Experience with NGS data analysis will be very helpful too but is not absolutely required. Full funding is now available for one year, with possibilities for extension. Responsibilities include leading a field expedition with a small researcher team to several sites in East Africa, data collection and analyses and paper writing. This postdoc position is one of several new and recent Swiss Science Foundation funded positions on cichlid specia-

tion in the group, and it will involve close interaction with PhD

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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

FloridaInstTech MarineMegafauna

FACULTY POSITION: Marine Megafauna Florida Institute of Technology Department of Biological Sciences

Florida Institute of Technology (http://www.fit.edu), an independent university located on Florida's east coast, invites applications for a full-time faculty position (open rank) in the area of organismal biology, beginning in Fall 2014. The successful candidate must have a Ph.D. degree and publication record in studies of marine mammals, sharks, sea turtles, or fossil marine megafauna. S/he will teach courses that support our undergraduate program in marine biology, as well as graduate courses in marine megafauna and her/his area of specialization. Women and minorities are strongly encouraged to apply.

Please submit a cover letter, detailed curriculum vitae, statements of research interests and teaching philosophy, and contact information for three references to: Dr. Robert van Woesik (rvw@fit.edu), Search Committee Chair, Dept. of Biological Sciences, Florida Institute of Technology, 150 West University Blvd., Melbourne, FL 32901-6975. Deadline for applications is 8 November 2013. Florida Institute of Technology is an Equal Opportunity/Affirmative Action Employer.

cpruett@fit.edu

GeorgeWashingtonU GenomicsDirector

Founding Director, Genomics Institute

The George Washington University

The George Washington University (GW), the largest university in the nation's capital, has launched a major interdisciplinary initiative to develop a Genomics Institute to partner with the recently established Computational Biology Institute (http://cbi.gwu.edu/) to focus on large-scale integrative clinical genomics towards translational medicine. The Founding Director will build the scientific vision of the Genomics Institute and direct the development and implementation of research plans and organizational structures, with the goal of hiring new faculty as well as integrating existing faculty and resources across the GW Schools of Medicine and of Engineering and Applied Science and the GW Colombian College of Arts and Sciences. This individual will also hold the rank of Professor in a suitable department at GW. The Genomics Institute will be located, with the CBI and our High Performance Computing cluster (http://columbian.gwu.edu/ots/hpc), at our Virginia Science and Technology Campus (http://www.gwvirginia.gwu.edu/), and the Director will build upon existing partnerships with regional research centers of excellence, including Children's National Medical Center, NIST, Janelia Farm, INOVA hospital system, Naval Research Laboratory, Virginia Tech-Arlington, and the NIH intramural research program.

A successful candidate will hold an advanced degree (Ph.D., M.D., or equivalent), and have demonstrated research excellence in clinical genomics, with a compelling vision for the future of translational medicine and a strong extra-mural funding record. The candidate should have demonstrated leadership in managing a variety of stakeholder groups within the research community, planning and assessing programs, developing plans to resolve operational problems and issues, and managing financial and human resources. A full-length position description can be found at http://www.gwvirginia.gwu.edu/ . Inquiries, nominations, and applications are invited and will be accepted until the position is filled. Review of applications will commence October 31, 2013. Applications should include a cover letter and curriculum vitae. Materials should be submitted electronically to consultants and the search committee and will be held in strict confidence. Please email applications and nominations to gw-genomics@kornferry.com

Maureen Ryan, Senior Client Partner; Divina Gamble, Principal; Rosa Morris, Senior Associate, Korn/Ferry International

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 Washing-

ton University Innovation Hall, Suite 305 45085 University Drive Ashburn, VA 20147 kcrandall@gwu.edu Office: (571) 553-0107 Cell: (202) 769-8411 http://-cbi.gwu.edu/ https://www.facebook.com/GWUCBI

keith.crandall@gmail.com

GeorgiaInstTech LabDirector

The SCHOOL OF BIOLOGY of the COLLEGE OF SCIENCES at GEORGIA INSTITUTE OF TECHNOLOGY invites applications for an immediate opening for a full-time non-tenure track general faculty position as Director of Introductory Biology Laboratories and TA Development. It is expected that the position will be filled at the rank of Academic Professional beginning as early as January 2014. We seek a broadly-trained Ph.D. in Biology.

Candidates should have experience teaching undergraduate biology courses and an interest in innovative instruction. This position will require teaching, lab curriculum development, and supervision and professional development of teaching assistants in freshman biology courses, and will require expertise in at least one of the following subject areas: cell biology, microbiology, genetics, ecology, or evolution. In addition to overseeing the introductory biology labs, this academic professional may also teach in core biology courses in his/her area of expertise.

Salary will be commensurate with experience and qualifications. This is a renewable 12-month non-tenure track position. Candidates should complete the online application form by uploading a single PDF file containing a letter of application, a statement of teaching philosophy and summary of teaching experiences, sample course syllabi, a curriculum vitae and the names and contact information of three professional references to http://searches.biology.gatech.edu Review of applications will begin immediately and will continue until the position is filled.

Georgia Tech is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer and requires compliance with Immigration Control Reform Act of 1986.

Original posting: http://www.biology.gatech.edu/-jobopps/job.php?id1 Chrissy Spencer, PhD School of Biology Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332 office 404 385 0539 fax 404 894 0519 chrissy.spencer@biology.gatech.edu

Chrissy Spencer <chrissy.spencer@biology.gatech.edu>

GettysburgCollege BehaviourEvolution

Position Summary:

Gettysburg College invites applications for a tenure-track position at the rank of assistant professor in the Biology Department to begin August 2014. The successful candidate will teach a sophomore-level course in Animal Behavior, a sophomore-level organismal course (e.g., vertebrate zoology, entomology) - both courses with laboratory component, and will share teaching duties in our core biology sequence.

Qualifications:

Ph.D. in the Biological Sciences, commitment to teaching in the liberal arts tradition, and research that involves undergraduates are essential; post-doctoral experience preferred.

Details:

Please visit our website to submit electronic application: http://gettysburg.peopleadmin.com/postings/-709. Please include curriculum vitae and statement of teaching and research goals. Three professional references will be asked to submit letters of reference (of which at least one can speak to the candidate's teaching effectiveness).

For full consideration, application must be submitted by October 1st, 2013 and letters of recommendation by Oct 10th, 2013.

Inquiries can be addressed to Dr. Veronique Delesalle at delesall@gettysburg.edu.

Gettysburg College celebrates diversity and welcomes applications from members of any group that has been historically underrepresented in the American academy. The College assures equal employment opportunity and prohibits discrimination on the basis of race, color, national origin, gender, religion, sexual orientation, gender identity, gender expression, age, and disability.

HHMI UCBerkeley LabManager

Job Summary:

The Howard Hughes Medical Institute is seeking an energetic, hard-working and highly motivated individual to serve as Laboratory Manager in one of its laboratories at the University of California, Berkeley. The laboratory carries out cutting-edge research in an emerging model organism, the choanoflagellate, to reconstruct the origin and early evolution of animals. The lab also studies the molecular and genetic bases of signaling interactions between choanoflagellates and bacteria. The position will consist of both laboratory management responsibilities and performing/assisting with experiments.

Principal Responsibilities:

- Provide a high level of lab support to the Investigator and research staff, including ensuring operation of essential equipment, and ordering and maintaining supplies - Perform experiments using cell culture, microscopy, genetics, and molecular biology techniques - Assist in the development of new techniques, including transgenics - Perform sterile techniques, including the maintenance, propagation, and analysis of choanoflagellate strains - Act as liaison between lab, HHMI and UC Berkeley on issues such as budget management and purchasing - Act as liaison between lab and UC Berkeley safety and regulatory offices to ensure compliance with relevant regulations - Manage lab safety programs, and train and monitor laboratory members as needed to ensure compliance with all applicable regulations - Train and supervise lab personnel as needed - Develop laboratory guidelines and maintain procedure manuals and strain databases - Assist with plasmid preparation, cDNA cloning and DNA sequencing techniques - Perform other laboratory management duties as requested, including scheduling of lab events and organizing lab meetings

Preferred Qualifications:

- Bachelor's degree in biology or chemistry - Five or more years lab experience - Two years lab management experience strongly preferred - Knowledge of safety and laboratory procedures - Prior experience with choanoflagellates is not expected. Candidates with prior experience in cell culture and using sterile technique will likely have the necessary skills. - The ideal candidate should be able to manage his or her own research project(s), plan and schedule short-to-intermediate term goals and schedule work to meet all goals. Employee will review work with supervisor at key stages, but will largely be self-directed. - Candidate must be self-motivated, energetic, able to solve problems and work in a diverse laboratory environment - Excellent computer and record-keeping skills - Excellent communication and interpersonal skills - Attentive to detail - Able to handle multiple tasks or projects with competing deadlines - Able to develop and troubleshoot new techniques

Additional Information:

Please email resume, cover letter, and the names of three references to: regionejobs@hhmi.org. Please write "Lab Manager-King" in the email subject line.

To Apply: To apply for this position, please email your resume to:

Christine Marhula Administrative Assistant II 2033 Valley Life Sciences Building Berkeley, California 94720-3140 Email: regionejobs@hhmi.org

nicoleking.ucb@gmail.com

Harvard Programmer BacterialEvolution

A direct link is here: https://sjobs.brassring.com/-TGWEbHost/jobdetails.aspx?jobId=-967689&partnerid=25240&siteid=5341&type=-search&JobReqLang=1&codes=IND Here is a job posting for a programmer working on the evolution of Streptococcus pneumoniae under vaccine pressure, as well as a second project on HIV transmission, the second one being admittedly more epidemiology/disease ecology than evolution. I think it would be of interest to people in the evolution community.

Thank you!

Marc Lipsitch

Auto req ID 30447BR *Business Title* Programmer *School/Unit* Harvard School of Public Health *Sub-Unit* ———— *Location* USA - MA - Boston *Job Function* Information Technology *Time Status* Full-time *Department* Epidemiology *Salary Grade* 056 *Union* 00 - Non Union, Exempt or Temporary

Duties & Responsibilities

The Cost-Effectiveness of Preventing AIDS Complications (CEPAC) group and the Cepac Dynamic Modeling (CDM) group at the Harvard School of Public Health and MGH, led by Dr George R Seage, III, and the Center for Communicable Disease Dynamics, led by Dr Marc Lipsitch, seek a talented, motivated full-time Programmer to join our research team. The CDM software team maintains and develops HIV/AIDS simulation models, which inform research identifying the most effective and cost-effective treatment strategies for people living with HIV/AIDS. The CCDD is embarking on a new simulation modeling project to study the evolutionary effects of pneumococcal conjugate vaccines, which are being deployed in countries around the world to prevent childhood pneumonia and other infections, and which exert selection for changes in serotypes of this organism (Cobey S and Lipsitch M, Science 2012, 335(6074):1376-80). As a programmer in our groups, you will have the opportunity to learn about HIV- and infectious-disease related public health issues, and their evolutionary and epidemiological dynamics while using your programming skills to help solve truly global problems.

The responsibilities of this job include:

- Maintaining and continuing to developing the current HIV simulation model written in C++ in collaboration with the rest of the CDM team - Maintaining up to date documentation, flowcharts, and guides for each model version

Working with the team to make updates to the model - code based on current findings in the literature

- Developing new data analysis tools and scripts for researchers - Updating existing pneumococcal vaccine simulation model code (Cobey S and Lipsitch M, Science 2012, 335(6074):1376-80) to allow statistical fitting to available data sets. - Producing simulation output and figures based on the fitted model

Please note that this a grant funded position scheduled to end on October 1, 2014.

Basic Qualifications - Must be a candidate for or graduate holding a B.S. in Computer Science or related field - Miust have experience working with C++ - Must have at least 3 years of related work experience. Further education may count towards experience.

Additional Qualifications - Master's degree preferred - Quick to learn new technologies and scientific concepts and understand complex model/software dynamics - Knowledge of basic statistical concepts such as common distributions and their associated likelihoods

Able to explain technical concepts to a non-technical - audience - Good interpersonal skills with ability to act professionally at all levels - Ability to work both independently and collaboratively - Interest in public health and HIV/AIDS transmission and prevention - One or more of the following desired but not required: - Familiarity with Perl, Python or similar scripting language - Experience with Matlab - Experience working with complex inherited code - Experience in GUI development

Additional Information Harvard offers an outstanding benefits package including:

Time Off: 3 - 4 weeks paid vacation, paid holiday break, 12 paid sick days, 11.5 paid holidays, and 3 paid personal days per year.

Medical/Dental/Vision: We offer a variety of excellent medical plans, dental & vision plans, all coverage begins as of your start date.

Retirement: University-funded retirement plan with full vesting after 3 years of service.

Tuition Assistance Program: Competitive tuition assistance program, $40 per class at the Harvard Extension School and discounted options through participating Harvard grad schools.

Transportation: Harvard offers a 50% discounted MBTA pass as well as additional options to assist employees in their daily commute.

Wellness options: Harvard offers programs and classes at little or no cost, including stress management, massages, nutrition, meditation and complimentary health services. *

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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

IZW Berlin LabTech WildlifeConservation

The Leibniz Institute for Zoo and Wildlife Research (IZW) in Berlin is Germany's premier wildlife research institute. The IZW focuses on the life histories and mechanisms of evolutionary adaptations of mammals and birds, their limits and their conservation in natural and anthropogenically influenced environments. For the new interdisciplinary Junior Research Group,

funded through the Federal Ministry of Education and Research (BMBF), on "Species resilience to global change: Assessing the impact of sustainable forest management schemes on biodiversity" the IZW, together with its partner, the Centre of GeoGenetics (Prof. Dr. Tom Gilbert) of the University of Copenhagen, is looking for a: Laboratory Technician (Technical Assistant TA) (f/m) Reference 15/2013

Project This Junior Research Group uses a multidisciplinary combination of state of the art in-situ field research (camera-trapping and leech screening for host and pathogen DNA), novel molecular tools, advanced computational simulations and modelling, and high-resolution satellite images to investigate the highly threatened mammal community of Southeast Asia and its associated pathogens. Laboratory work will focus on the screening of terrestrial leeches collected in Southeast Asia. Leech screening is ideally suited to study ground-dwelling mammals and thus complements camera-trapping to assess mammal species richness. Furthermore this technique allows to distinguish individual animals, and to assess the genetic diversity that is usually neglected in biodiversity monitoring. Analysis of pathogen DNA from host blood will also allow health monitoring across a variety of species, revealing the consequences of different forest management schemes for wildlife health. Species and individual identification of hosts and the search for host pathogens derived from the leeches will be performed using molecular capture methods combined with second generation sequencing on IonTorrent PGM and Illumina MiSeq platforms.

Prerequisites . Successful completion of an apprenticeship, preferably as a biological laboratory technician or assistant (BTA; MTA); . Strong molecular biology skills; . Preferably, experience working with small quantities of DNA (i.e. degraded DNA obtained from ancient samples or faecal samples); . Experience with next generation sequencing; . Basic bioinformatics knowledge (primer design, blast, alignments etc.) is required and experience with next generation sequencing data analysis is advantageous; . Proficiency in English (especially oral as we have an international research team).

We offer state-of-the-art methodology and a stimulating international research environment in an interdisciplinary, collaborative project. For enquiries or further questions, please contact the head of the Junior Research Group Dr. Andreas Wilting (IZW) Tel.: +49 (0)30 5168-333, wilting@izw-berlin.de. Salary and benefits will be competitive (100% technical assistant salary according to the wage agreement for the federal TVöD). The position is limited to four years and will be available from 1st November 2013. Interviews will take place on the 17th and 18th of October 2013 (potentially via skype if necessary). As a member of the Leibniz Association, the IZW is an equal opportunity employer, and is determined to increase the proportion of women in successful scientific careers, and particularly encourages women to apply. Please email complete application documents as a single pdf-file including the position reference number, a letter of motivation, CV, copies of relevant degrees, as soon as possible but no later than October 15th, 2013 to personal@izw-berlin.de or by mail to Leibniz Institute for Zoo & Wildlife Research, PF 700430, D-10324 Berlin, Germany.

Best regards from Berlin,

Witha Hildebrand Personalsachbearbeiterin Leibniz-Institut für Zoo- und Wildtierforschung im Forschungsverbund Berlin e.V. Alfred-Kowalke-Strasse 17 10315 Berlin

Tel.: +49 30-5168-107 Fax: +49 30-5126-104 E-Mail: personal@izw-berlin.de

"Hildebrand, Roswitha" <hildebrand_personal@izw-berlin.de>

IndianaU Bloomington EvoDevo

Position in Evolutionary Developmental Biology

Department of Biology

Indiana University, Bloomington

The Department of Biology, Program in Evolution, Ecology, and Behavior (EEB) invites applications for an ASSISTANT PROFESSOR in the area of Evolutionary Developmental Biology. We seek to attract a diverse pool of qualified applicants, with the possibility to hire at the ASSOCIATE PROFESSOR level in exceptional cases. We welcome applicants who use a range of approaches to understanding organismal diversification, including the integration of Evolutionary Developmental Biology with Ecology, Genomics, and/or Epigenetics. Applicants must hold a Ph.D. and have relevant postdoctoral experience with a strong record of research accomplishments. For information about the Department of Biology and for links to the campus and the Bloomington community, see website: http://www.bio.indiana.edu . Review of applications will begin October 15, 2013, and will continue until suit-

able candidates are identified. Applicants should submit a cover letter, CV, research (past, present, and planned), and teaching statement using the submissions link at http://indiana.peopleadmin.com. Applicants should also arrange to have three (or more) letters of recommendation sent to iueeb@indiana.edu. Please address inquires to Jennifer Tarter at 812-856-3984. Indiana University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

Armin P. Moczek Associate Professor Director, Masters of Arts in Teaching in Biology Program Department of Biology, Indiana University

http://sites.bio.indiana.edu/~moczeklab[1] Links:

[1] https://webmail.iu.edu/-horde/services/go.php?url=-http%3A%2F%2Fsites.bio.indiana.edu%2F%7Emoczeklab
"Armin P. Moczek" <armin@indiana.edu>

IowaStateU Macroevolution

The department of Ecology, Evolution & Organismal Biology (EEOB) at Iowa State University seeks a creative individual employing and/or developing macroevolutionary and phylogenetic comparative approaches to address key questions in the evolution of organismal systems and biological diversity. Possible research areas include but are not limited to: elucidating rates and patterns of evolutionary change in adaptive traits, linking species-level changes in phenotypes with environmental change, identifying the emergence of novel phenotypes that influence speciation and/or extinction, and discovering mechanisms underlying the evolution of biotic diversity. Successful candidates will establish a vibrant, extramurally funded program of research, will demonstrate an ability to work collaboratively within existing research strengths at ISU, and will skillfully contribute to undergraduate and graduate education, including courses in their area(s) of expertise.

Application instructions are located at www.iastatejobs.com (vacancy 131002). In brief, applicants should submit a cover letter, CV, a research/vision statement that includes how their research program addresses unresolved problems in the field, a teaching statement, and up to three reprints by October 15, 2013. Submission of three confidential letters of recommendation should be arranged as per instructions in the on-line application system.

Please address questions regarding this vacancy to Dr. Dean Adams (515-294-3834, dcadams@iastate.edu). If you have questions regarding the application process, please email employment@iastate.edu or call 515-294-4800 or Toll Free: 1-877-477-7485.

Iowa State University promotes excellence through diversity and is an AA/EEO employer with an ADVANCE program to enhance the success of women faculty and faculty of color in science and engineering.

Dean

Dr. Dean C. Adams Professor Department of Ecology, Evolution, and Organismal Biology Department of Statistics Iowa State University Ames, Iowa 50011 www.public.iastate.edu/~dcadams/ phone: 515-294-3834

dcadams@iastate.edu

MichiganStateU PlantEvolutionaryBiol

Plant Biologist

The Department of Plant Biology at Michigan State University invites applications for a tenure-track position at the Assistant Professor level. We seek an individual working on fundamental problems concerning the ecology, evolution, genetics or functional organization of plants, conducted at any level from genes to communities. Areas of interest include, but are not limited to, population dynamics, phylogenetics, population genetics, physiology and development. The successful applicant will contribute to undergraduate and graduate teaching and maintain an externally funded research program. Applicants must have a Ph.D., and postdoctoral research experience is desirable. Applications should include a curriculum vitae, a summary of research accomplishments and future research objectives, a brief description of teaching philosophy and goals, and the names and contact information for three referees (compiled as a single pdf file), all of which should be uploaded electronically at https://jobs.msu.edu under position #8444. Information about the Department of Plant Biology can be found at www.plantbiology.msu.edu< http://www.plantbiology.msu.edu >. The review of applications will begin November 6, 2013 and will continue until a suitable candidate is identified. Ques-

tions regarding this position may be directed to Dr. Douglas Schemske, Search Committee Chair (schem@msu.edu<mailto:schem@msu.edu>).

MSU is an affirmative action, equal opportunity employer and is committed to achieving excellence through a diverse workforce and inclusive culture that encourages all people to reach their full potential. The University actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities. MSU is committed to providing a work environment that supports employees' work and personal life, and offers employment assistance to the spouse or partner of candidates for faculty and academic staff positions.

Stacy LaClair Department of Plant Biology Michigan State University 612 Wilson Road, Room 166 East Lansing, MI 48824 (517)353-9650

"LaClair, Stacy" <Laclairs@plantbiology.msu.edu>

MoyneCollege NY EvolutionaryMicroBiol

We are looking for a "broadly trained" biologist, including people with a background in evolution.

-Devon

ASSISTANT PROFESSOR V IMMUNOLOGY/MICROBIOLOGY

The Department of Biological Sciences at Le Moyne College has a tenure-track opening at the Assistant Professor level to begin August 2014. We are seeking a broadly trained biologist with research expertise in Immunology and/or Microbiology. Teaching responsibilities will include courses within area of specialty, as well as introductory courses. Additional responsibilities include implementing a research program that encourages undergraduate participation, advising biology majors and college service. Ph.D. from an accredited university/college required; undergraduate teaching experience preferred.

Candidates can apply by visiting our website at http://www.lemoyne.edu/employment. A letter of application with curriculum vitae, transcripts, and separate statements of teaching philosophy and research interests must be submitted for consideration. Review of applications will begin immediately. Applications must be received by October 4, 2013 for consideration. Le Moyne College is an equal opportunity employer and encourages women, persons of color, and Jesuits to apply. Visit our web page at www.lemoyne.edu . Devon B. Keeney, Ph.D. Associate Professor Department of Biological Sciences Le Moyne College 1419 Salt Springs Road Syracuse, NY 13214-1301

phone: (315) 445-4508 fax: (315) 445-4540 email: keeneydb@lemoyne.edu

Devon Keeney <keeneydb@lemoyne.edu>

NIMBioS UTennessee Director

Dear Colleagues,

I write to notify you that the National Institute for Mathematical and Biological Synthesis (NIMBioS) at the University of Tennessee continues to aggressively seek interested quantitative biologists to fill the vacancy of NIMBioS Director. Initiated in 2008, NIMBioS has received continuing funding from the National Science Foundation for the period 2013-2018. The founding NIMBioS Director, Louis Gross, is stepping aside at his own request, and the University is committed to hiring a successor who can both continue outstanding programs of the sort NIMBioS has developed in research and education and provide visionary leadership for the long-term sustainability of NIMBioS.

The new Director will be appointed as Full Professor in an appropriate University department and become the sole PI of the NIMBioS award from NSF. NIMBioS has the strong support of the University, an outstanding newly-renovated facility, a highly professional full-time staff, and established policies and procedures. Details about NIMBioS are available at NIMBioS.org

I would be happy to talk with you or any individuals you suggest as possibly being appropriate for this position.

Sincerely yours,

Daniel Simberloff

Nancy Gore Hunger Professor

Chair, Search Committee, NIMBioS Director

tebo@utk.edu

gavrila@tiem.utk.edu

NorthernArizonaU EvolutionaryEcol

Faculty Position in Evolutionary Ecology and Systematics

The Department of Biological Sciences at Northern Arizona University invites applications for a tenure-track teaching and research position in the area of Evolutionary Ecology and Systematics at the assistant professor level, to begin August 2014. Preference will be given to applicants with experience using molecular techniques, informatics, and phylogenetics to study arthropod biodiversity at regional and global scales. The successful candidate will develop a research program to attract extramural funding, have a strong commitment to undergraduate education, and contribute to core courses in the biology curriculum. Northern Arizona University is a 26,000-student institution with its main campus in Flagstaff, a four-season community of about 67,000 at the base of the majestic San Francisco Peaks. NAU's emphasis on undergraduate education is enhanced by its graduate programs and research as well as distance learning. The Department of Biological Sciences offers B.S., M.S., M.A.T and Ph.D. programs. All faculty members are expected to promote student learning and help students achieve academic outcomes. The university is committed to a diverse and civil working and learning environment. Applications must include: (1) a cover letter highlighting your particular qualifications for this position; (2) a curriculum vitae; (3) a statement of teaching philosophy; (4) a statement of research interests; and (5) names and contact information for three references. Save all items, in the order stated, as a single PDF and send to: BiologyFacultySearch@nau.edu<mailto:BiologyFacultySearch@nau.edu>. Only complete application packets sent electronically to this address will be reviewed.

Tina Ayers, Ph.D. Assoc. Professor & Curator, Deaver Herbarium Biological Sciences Northern Arizona University Flagstaff, AZ 86011-5640 Vox 928 5239482 Fax 928 5237500

Tina J Ayers <Tina.Ayers@nau.edu>

OklahomaStateU EvoDevo

Assistant Professor, Ecologist V Tenure-track. The Department of Zoology at Oklahoma State University (http://zoology.okstate.edu) invites applications for an Assistant Professor in ecology. We seek applicants whose core research integrates ecology with the study of animal development, behavior, biodiversity, or ecosystems. Applicants should have a Ph.D., post-doctoral experience, teaching experience, and success in obtaining extramural funding. Responsibilities include establishing an extramurally funded research program, mentoring M.S. and Ph.D. students, and teaching at the undergraduate and graduate levels. To apply 1) send a single pdf file composed of a cover letter, curriculum vitae, and statements of research interests and teaching philosophy, and 2) arrange to have three letters of recommendation sent to the search committee chair, Dr. Andrew Dzialowski, at zoologysearch@okstate.edu. Application review begins October 7, 2013, with employment beginning August 16, 2014. Filling of this position is contingent upon funding availability. Oklahoma State University is an AA/EEO/E:Verify Employer committed to diversity. OSU-Stillwater is a tobacco-free campus.

Michael Tobler Department of Zoology Oklahoma State University 501 Life Sciences West Stillwater, OK 74078, USA Phone: +1-405-744-6815

Website: http://www.sulfide-life.info/mtobler Humans are not the pinnacle of evolutionary progress but only an aberrant side branch of fish evolution. - Moyle

Michael Tobler <michi.tobler@okstate.edu>

PennsylvaniaStateU ResTech MammalianMutations

Research Technician/Technologist position :

A research position is available immediately in the laboratory of Dr. Kateryna Makova, Professor of Biology, at The Pennsylvania State University. The successful candidate will perform research and organizational activities in the Makova Lab, which uses molecular biology, genetics and genomics techniques to study rates and patterns of mammalian mutations. Hands-on laboratory experience is required, with expertise in several of the following basic molecular biology techniques: library preparation for next generation sequencing, operating a next generation sequencing machine (MiSeq), DNA and RNA isolation from mammalian tissues, PCR, molecular cloning, and sequencing. The

successful applicant must have the ability to plan, execute, interpret, summarize, and troubleshoot independent research and collaborate effectively with members of a research team. Working knowledge of molecular evolution and population genetics is a plus. Once hired, the successful candidate will work in a wet lab, but will interact closely with computational biologists on data analysis (including that of next-generation sequencing data).

Include a cover letter that summarizes relevant experience and reasons for interest in the job, along with a CV that includes contact information for three references (name, position title, mailing address, telephone number, and e-mail address). This job will be filled as a level 2, level 3, or level 4, depending upon the successful candidate's competencies, education, and experience. Typically requires a Bachelor's degree in Biology or Molecular Biology (or a closely related field) plus several years of lab work related experience, or an equivalent combination of education and experience for a level 2. Additional experience and/or education and competencies are required for higher level jobs. A Master's degree with relevant lab experience preferred. This is a fixed-term position funded for one year from the date of hire with excellent possibility of re-funding. Electronically apply on Job #40333 at www.psu.jobs Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

Kateryna Makova <kmakova@bx.psu.edu>

Plymouth EvolutionaryBiol

Fellowship opportunity (Early Career or Senior Fellowship): Research Fellowship in Cell and Molecular Biology of Marine Organisms (5 years)

The Marine Biological Association of the UK, based in Plymouth, has established the Warner Fellowship for research into the cell and molecular biology of marine organisms. Areas of interest include (but are not limited to) evolutionary and comparative biology, including comparative neurobiology, evolutionary developmental biology and the use of marine model systems. The Fellowship is named after Anne Warner who was Professor of Anatomy and Embryology at University College London. The MBA laboratories in Plymouth have excellent facilities for culture of marine organisms, state-of-the-art cellular imaging, molecular labs, research vessels and sea water facilities. For further details visit http://tinyurl.com/mbawarner Closing date31st October 2013.

peter.holland@zoo.ox.ac.uk

PrincetonU EvolutionaryGenomics

Assistant Professor Positions Available at Princeton University

The Lewis-Sigler Institute for Integrative Genomics at Princeton University invites applications for tenure-track faculty positions at the Assistant Professor level; in exceptional cases, more senior appointments may be considered. We are seeking outstanding scientists with strong interest and experience in quantitative, systems-level approaches to understanding any area in modern experimental molecular biology, chemistry, or evolutionary biology. Appointments at the Lewis-Sigler Institute are made jointly with an appropriate home department. A strong record of experimental work and quantitative analysis is essential. The successful candidate will have research laboratories at the Institute, and teaching responsibilities (both graduate and undergraduate) will be shared between the Institute and the home department.

The Lewis-Sigler Institute for Integrative Genomics, housed in the Carl Icahn Laboratory at Princeton University, was established to innovate in research and teaching at the interface of modern biology and the more quantitative sciences. The Institute provides significant support to its faculty through heavy investment in state-of-the-art research infrastructure, an NIH-funded graduate training program, and a high level of administrative support as well.

Essential Qualifications All applicants must have a Ph.D., M.D., or equivalent degree. In addition, applicants must have a very strong record of research productivity, demonstrate the ability to develop a rigorous research program, and be committed to teaching at both the undergraduate and graduate levels.

How to Apply Applications must be submitted online at:

http://jobs.princeton.edu/applicants/-Central?quickFind=64204 and should include a cover letter, curriculum vitae, a two-page research description, as well as contact information for three references. Applications will be reviewed beginning on October 15, 2013.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

Laura Landweber <lfl@princeton.edu>

PurdueU EvolutionaryBiology

Faculty Position in Evolutionary Ecology Department of Biological Sciences Purdue University

The Department of Biological Sciences, Purdue University, invites applicants for a tenure-track faculty position in the area of Evolutionary Ecology. We seek candidates whose research integrates the fields of ecology and evolutionary biology through investigations in subfields such as community and conservation ecology, population and evolutionary genetics, and evolutionary dynamics. Applicants must have a Ph.D. or equivalent in ecology or evolutionary biology; postdoctoral experience preferred. We expect to fill one academic-year appointment at the Assistant Professor level. The successful applicant is expected to conduct research to address fundamental questions in an area listed above, teach undergraduate and graduate students, and contribute to activities in the Department of Biological Sciences, Department of Forestry and Natural Resources, and interdisciplinary programs.

The Department of Biological Sciences has over 50 faculty members conducting research in a wide range of fields including evolutionary biology, ecology, behavior, microbiology/virology, structural biology, developmental biology, molecular/cell biology, and bioinformatics. Further information about the Department is available at http://www.bio.purdue.edu/. The successful candidate will have opportunities to interact with allied scientists across the University, including colleagues in Purdue's Center for the Environment, Climate Change Research Center, and Bindley Bioscience Center. Purdue has first-rate laboratory and computational facilities for analytical and systems work, and a wide variety of field facilities in the surrounding landscape including the Ross Biological Reserve.

Applications must be submitted electronically to https://hiring.science.purdue.edu as a PDF file that includes a detailed curriculum vitae, names and addresses of three referees, a 2 - 3 page summary of research interests, and a one-page teaching statement. Inquiries should be directed to Evolutionary Ecology Search Committee, Department of Biological Sciences, Purdue University, 915 W. State St., West Lafayette, IN 47907-2054. Review of applications will begin November 8, 2013 and continue until the position is filled. A background check will be required for employment in this position.

Purdue University in an Equal Opportunity/Equal Access/Affirmative Action employer fully committed to achieving a diverse workforce.

Nancy C. Emery Assistant Professor Biological Sciences / Botany & Plant Pathology Purdue University West Lafayette, IN 47907-2054 Office: 765.496.6931 Lab website: http://web.ics.purdue.edu/ ~ nemery/ "Emery, Nancy C" <nemery@purdue.edu>

RockefellerU EvolutionaryBiol

We are conducting an open search across all fields including evolutionary biology.

FACULTY POSITIONS AT THE ROCKEFELLER UNIVERSITY

The Rockefeller University seeks exceptional, interactive, and creative scientists to join its faculty. We invite applications from outstanding candidates for tenure-track positions.

The University has a laboratory-based organization structure that fosters interdisciplinary research. We encourage applications in the following areas:

- Chemical & Structural Biology - Genetics & Genomics - Immunology, Virology & Microbiology - Medical Sciences, Systems Physiology & Human Genetics - Molecular Cell Biology - Neurosciences and Behavior - Organismal Biology, Evolution, Ethology & Ecology - Physical, Mathematical & Computational Biology - Stem Cells, Development, Regeneration & Aging

Details about specific subjects of research can be found at http://www.rockefeller.edu/facultysearch . The Rockefeller University provides strong support for the research work of its faculty. The positions offer competitive salary, benefits and start-up funds, renovated laboratory space, access to state-of-the art core facilities and extensive opportunities for collaboration both within the University and with neighboring institutions.

Applications are being accepted electronically through our Online Application System at http://oas.rockefeller.edu. Applicants should follow the online application procedure.

The deadline for application submission is October 11, 2013.

If you have questions regarding submitting an application, please contact our Administrator at faculty-search@rockefeller.edu.

The Rockefeller University is an Affirmative Action/Equal Opportunity/VEVRAA Employer and solicits applications from women and under-represented minorities.

Jill Benz <benzj@mail.rockefeller.edu>

RowanUniversity MicrobialMetagenomics

The Department of Biological Sciences at Rowan University seeks an outstanding teacher and scholar to develop an externally funded research program in Microbial Metagenomics that includes undergraduate and graduate (MS) students. Applicants must have a doctoral or equivalent degree, postdoctoral or comparable professional experience, documented evidence of high quality research productivity, and a strong commitment to teaching at the undergraduate level. In addition, the successful candidate will participate in service to the department and University.

We encourage applications from candidates with a successful record of microbiome research in humans and/or model systems relevant to human health that involves one or more of the following: host-microbe interactions; development and signaling; immunology; population genetics, evolution and/or ecology of indigenous microbial communities; and/or metabolomics. A record of external research support and/or postdoctoral research support is highly desirable. Collaborations with faculty in science, medical, and/or engineering programs throughout the Rowan campus will be highly encouraged.

Prior teaching experience at the university level is preferred. Teaching responsibilities for the successful candidate are expected to include some combination of undergraduate Core Biology lab courses (Evolution/Adaptation/Diversity, Introductory Genetics, Introductory Cell Biology, and/or Global Ecology), upper level lab courses (Microbiology, Environmental Microbiology, and/or a course in the applicant's area of expertise), and possibly graduate courses. A typical teaching load per year for research-active junior faculty is 3 lecture-lab courses and a lecture or seminar course. Evidence of undergraduate and graduate student research mentorship is also desired.

The Department's mission is to provide rigorous and broad student-centered training in biology, using small classes and active learning. The Department offers a BS in Biological Sciences and co-sponsors the BS and MS programs in Bioinformatics. The Department presently consists of 14 tenure-track faculty members. The Department is housed in a modern science building shared by more than 40 tenure-track science faculty.

Rowan University is a comprehensive state-designated research institution with approximately 14,000 students. Its main campus is located in Glassboro, N.J., 20-miles southeast of Philadelphia, and it has a branch campus and medical school in Camden and a second medical school in nearby Stratford. Rowan is only the second university in the country to offer M.D. and D.O. medical-degree granting programs. The institution is also home to the South Jersey Technology Park, which fosters the translation of applied research into commercial products and processes. Its business incubator also supports that mission. The University boasts eight colleges–Rohrer College of Business and colleges of Communication and Creative Arts, Education, Engineering, Graduate and Continuing Education, Humanities and Social Sciences, Performing Arts, and Science and Mathematics–and has been called upon by the state to create a College of Health Sciences.

Applications must be sent through an automated applicant tracking system (http://www.rowan.edu/jobs) under job #13GF012888. The application will consist of a cover letter, curriculum vitae, a statement of research plans, a statement of teaching philosophy, and graduate transcripts (copies acceptable).

Three letters of recommendation should be sent via email directly by references to joslin@rowan.edu and obrien@rowan.edu.

Consideration of applications will begin 12/09/2013 until the position is filled. Inquiries may be sent to Terry O'Brien (obrien@rowan.edu). Rowan University values diversity and is committed to equal opportunity in employment.

All positions are contingent upon budget appropriations.

srinivasan@rowan.edu

RutgersU LabTech PopulationGenomics

Laboratory Researcher IV, Rutgers University, New Brunswick, NJ

The Pinsky Lab in the Department of Ecology, Evolution, and Natural Resources is searching for an organized, enthusiastic, and skilled individual to work as a population genomics technician in our new research lab. We use population genetics and genomics to study the ecology, evolution, and conservation of marine species around the world.

The technician will assist the PI in managing the lab and conducting research. Specific duties will include ordering and maintaining equipment and supplies, processing genetic samples, preparing DNA and RNA libraries for genotyping and next-generation sequencing, performing basic data analysis, training students, and maintaining an organized, safe, and productive laboratory environment. We offer an exciting and interdisciplinary work environment, opportunities to be involved in a wide range of ecological and evolutionary projects, and the potential for co-authorship on scientific manuscripts.

Minimum Qualifications - A bachelor's degree in a related scientific field or an equivalent combination of education and relevant experience in population genetics, molecular biology, or molecular ecology - Experience preparing reagents/buffers, gel electrophoresis, and PCR - Exceptional organizational skills and strong ability to accomplish tasks independently - Ability to master detailed laboratory procedures - Excellent communication and computer skills - The ability to lift at least thirty pounds

Preferred Qualifications - Previous experience working in a lab performing next-generation sequencing, particularly on the Illumina platform - Familiarity with scientific computing languages such as R, MATLAB, Python, or Perl - Knowledge of marine biology or ecology - Master's degree or higher in a related scientific field will be viewed positively

To apply, please visit the Rutgers University Jobs website http://uhrapps.rutgers.edu/jobs/ and search for Posting #13-002239. Please submit a cover letter, resume, and names and contact information for three (3) references. Please highlight your previous experience in the laboratory. Applications are due by September 18. Interviews will occur in late September, and the position will ideally begin in October.

This is a full-time position, initially appointed for a period of 12 months at a yearly salary of $39,229 - $44,000 (depending on qualifications), plus benefits. The position can be extended for at least one year depending on performance.

More information about the Pinsky lab can be found at http://pinsky.marine.rutgers.edu. Please contact Malin Pinsky (malin.pinsky@rutgers.edu) if you have any questions.

malin.pinsky@gmail.com

SanDiego EvolutionaryMicrobiologist

We are seeking a Microbial Ecologist/Evolutionary microbiologist to join our Cultivation Biology staff in San Diego.

Requirements: * PhD in Ecology, Microbiology, Evolution, Population Biology, Molecular Evolution or related field required plus minimum of 2 years relevant experience. * Demonstrated experience working with microbial communities both in lab and field settings. * Demonstrated familiarity with theory and literature of microbial communities, ecology of microbial populations, and genome evolution of microbial communities * Demonstrated ability to independently and creatively design, execute, troubleshoot and interpret experiments. * Someone with the ability to work on multiple biological scales, ranging from the molecular to the community, is preferred. * Track record of strong leadership interpersonal and communication skills are extremely important. * Demonstrated proficiency with statistics is critical. * Proficiency in written and oral presentations.

The Microbial Ecologist reports to the (Associate Director of Cultivation). Responsibilities include, but are not limited to: * Develop and lead a project focused on understanding consortia and designing stable consortia to improve community phenotypes such as productivity and stability. * PCR, qPCR, cloning, sequence analysis, phylogenetic analysis and vector design. * Advanced microscopy, experience with new technology in this area preferred. * Next generation sequencing, and data analysis. * Must be a team player with strong or-

ganizational skills, and written/verbal communication skills.

Sapphire offers very competitive compensation packages including bonuses and equity, as well as full benefit packages which include health, dental, vision insurance, 401k, and paid time off. To apply, please visit our Career Center at http://www.sapphireenergy.com/-sapphire-renewable-energy/ Robert McBride <robert.mcbride@sapphireenergy.com>

SanFranciscoStateU Bioinformatics

Job Advertisement:

Bioinformatics Assistant or Associate Professor Position –Tenure-Track– in Department of Biology, San Francisco State University. We seek candidates with leadership in developing computational or quantitative methods to the study of biological questions, especially utilizing genomic, transcriptomic, or other highly quantitative approaches. Preference will be given to individuals whose interests complement existing departmental research strengths in molecular biology, genetics, physiology, ecology, and evolutionary biology. Candidates are expected to establish collaborative work with individuals within biology, computer science or mathematics. Responsibilities include teaching an upper-division course in bioinformatics or systems biology, programming, or other quantitative methodology.

Qualifications for all positions are a Ph.D. degree and postdoctoral training. Teaching experience desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally-funded research program. Applications should include a curriculum vitae, separate statements of research and teaching interests, and copies of significant publications. Applicants should submit application materials and arrange to have three reference letters submitted to the Bioinformatics Search Committee, Dept. of Biology, San Francisco State University, via this job portal (http://-academicjobsonline.org/ajo/jobs/3210). Review of applications begins 15 November 2013 and continues until a suitable candidate is chosen. For additional information, visit our web site at http://biology.sfsu.edu. SFSU and the Department of Biology are committed to a diverse professoriate that includes women and individuals from underrepresented minority groups. SFSU is an EEO/AA employer.

Inquiries about this position can be directed to Scott Roy (scottwroy@gmail.com).

Scott W. Roy Assistant Professor Department of Biology San Francisco State University bcottwroy@gmail.com

scott roy <scottwroy@gmail.com>

Sewanee EvolutionaryAnimalPhysiologist

Applications from physiologists with comparative or evolutionary interests are particularly welcome -

* *

*COMPARATIVE ANIMAL PHYSIOLOGIST *

The Biology Department at the University of the South seeks a TENURE-TRACK ASSISTANT PROFESSOR with demonstrated talent for teaching and an expertise in ANIMAL PHYSIOLOGY, for a position in one of the nation's top liberal arts institutions. Primary teaching responsibilities will be in COMPARATIVE OR ENVIRONMENTAL ANIMAL PHYSIOLOGY. The candidate will also teach sections of introductory and intermediate Cell and Molecular Biology courses. The ability to teach Comparative Vertebrate Anatomy is also desirable. The successful candidate will maintain an active research program with opportunities for undergraduate involvement. Candidates should be enthusiastic about developing a teaching and research program in the context of the liberal arts tradition in education. The University of the South, familiarly known as Sewanee, consists of a highly selective, 1,500-student College of Arts and Sciences and a 70-student School of Theology. Located on a 13,000-acre campus on Tennessees Cumberland Plateau, it is an institution of the Episcopal Church that welcomes individuals of all backgrounds.

Review of applications will begin* *October 14, 2013, 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.*

"Kirk S. Zigler" <kzigler@sewanee.edu>

SkidmoreCollege EvolutionaryPhysiologist

TENURE TRACK POSITION IN INTEGRATIVE PHYSIOLOGY The Biology Department at Skidmore College, dedicated to excellence in teaching, research, and mentorship of a diverse undergraduate population, invites applications for a tenure-track position in animal physiology at the Assistant or Associate Professor rank to begin Fall 2014.

We seek a physiologist with taxonomically broad training in physiology and anatomy, specializing in any of the following fields: endocrinology, immunology, toxicology, muscle physiology, cardiovascular physiology, neurophysiology or developmental biology. An integration of physiological function and adaption with comparative phylogenetic analysis at the cellular and molecular level is desirable. Skidmore College has a history of computational systems physiology and the exploitation of advanced imaging technologies; candidates with such strengths are particularly encouraged to apply.

Minimal qualifications include a Ph.D. in Physiology or a related discipline.

We are especially interested in applicants who can contribute to the diversity of the College and it[1]s excellence through their research, teaching and/or service, and we request that applicants include in their cover letter information on how they will further the College[1]s goal of building a diverse learning community. In addition to the cover letter, curriculum vitae, and three letters of reference, a complete application will include a statement of teaching philosophy, along with description of the general aims of the applicant[1]s research program and ways in which the applicant will engage undergraduates in research.

Review of completed applications will begin October 15th, 2013.

Skidmore is a highly selective liberal arts college located in upstate New York that fosters creative approaches to teaching and learning. With its relatively small size and student-faculty ratio, the College is a close-knit academic community. Skidmore[1]s faculty of teacher-scholars are devoted to the instruction and mentoring of approximately 2,400 talented undergraduate men and women from some 47 states and 46 countries.

Skidmore College is committed to being an inclusive campus community and, as an Equal Opportunity Employer, does not discriminate in its hiring or employment practices on the basis of gender, race or ethnicity, color, national origin, religion, age, disability, military or marital status, sexual orientation, gender identity or expression, domestic violence victim status, predisposing genetic characteristics or prior arrest or conviction record or any other category protected by applicable federal, state, or local laws. Employment at Skidmore College is contingent upon an acceptable background check result.

Patricia J. Hilleren Associate Professor and Chair Biology Department Skidmore College 518-580-8301 Phillere@skidmore.edu

Patricia Hilleren <phillere@skidmore.edu>

SonomaStateU EvolutionaryMolecularBiologist

The Sonoma State University Biology Department seeks a dynamic teacher-scholar for a tenure-track Assistant Professor position starting Fall 2014. We are seeking a broadly trained molecular biologist whose research uses molecular tools to address fundamental questions in biology. Research area is open but might include genomics, functional genomics or integrative biology. The successful candidate will be expected to maintain an externally funded research program involving both graduate and undergraduate students and teach in his/her areas of expertise. See full job announcement at our web site: http://www.sonoma.edu/-biology Review of completed applications will begin Oct. 4, 2013. To apply, candidates must submit the following documents electronically to facultysearch@sonoma.edu: a letter of application; a statement of research goals that includes a graduate student mentoring plan, a statement of teaching philosophy, a complete and current vita, and contact information for three references. Applicants should also arrange to have three letters of recommendation sent directly from the recommender.

Refer to #103631 on all correspondence and inquiries regarding this position. SSU is an EEO employer

Nathan Rank <rank@sonoma.edu>

StellenboschU EvolutionaryBiol

Stellenbosch University DST-NRF Centre of Excellence for Invasion Biology (C-I-B)

Researcher (Ref. NW10/160/0713) (Five-year contract appointment with full benefits)

The Centre for Invasion Biology (C-I-B) is a Centre of Excellence funded by the South African Department of Science and Technology and administered by the National Research Foundation. The C-I-B is an interdisciplinary, inter-institutional research network, headquartered at Stellenbosch University in the Western Cape Province, with a subsidiary hub at the University of Pretoria. Its main focus is research and capacity development to reduce the rate and impacts of biological invasions in a changing natural and socio-political environment. Our work is undertaken in large measure through postgraduate student training.

The C-I-B currently comprises a small team of academic staff, an additional 24 core team members who are salaried staff of other higher education and public research institutions, 12 permanent and contract support staff, and 18 research associates. The C-I-B annually hosts around 10 postdoctoral associates and 50 postgraduate students at various levels.

The C-I-B has an exceptional record of knowledge production and postgraduate student training in the biological sciences, undertaken by world-class researchers. It is internationally recognised for its research, capacity development and advice on biological invasions in the context of environmental change. Further details of the C-I-B's activities and achievements are available at: www.sun.ac.za/cib The C-I-B wishes to appoint a full-time academic researcher to be based at the Stellenbosch hub to contribute to the C-I-B's key performance areas in research. Funding for the position is guaranteed for five years (2014 - 2019) with full benefits. Contract renewal beyond 2019 will be subject to performance and continued funding of the C-I-B.

We wish to appoint a person with a clear vision for research and student training in any relevant discipline, who will report to the Director of the C-I-B. We are particularly keen to expand our research and student training in molecular ecology and ecology of soil biota but are open to proposals from a variety of fields.

Duties: Developing a vibrant and productive research group, including graduate students, postdoctoral associates and collaborators, in a field of invasion ecology in line with the C-I-B's mission and key performance areas - supervising graduate students at Master's and PhD levels - publication of research papers in top international journals - assistance with the strategic management and development of the C-I-B, including securing continued funding for own and other research activities - involvement with all activities in research, education and training, networking, service provision and knowledge brokerage.

Requirements: PhD in Biology or in another field clearly aligned with the C-I-B's mission and key performance areas - a proven record of publishing research results in top journals. Recommendation: Evidence of successful postgraduate student supervision. Commencement of duties: As soon as possible Closing date: 1 October 2013 Enquiries regarding the job content: Prof. David Richardson on 021 808 3711 or at rich@sun.ac.za Enquiries regarding remuneration/benefits as well as technical assistance with the electronic application process: Human Resources Client Services Centre on 021 808 2753

The University will consider all applications in terms of its Employment Equity Plan, which acknowledges the need to diversify the demographic composition of the staff corps, especially with regard to the appointment of suitable candidates from the designated groups.

The University reserves the right not to make an appointment.

Your application, comprising a comprehensive curriculum vitae (including the names and contact details of at least two referees), a statement of current and planned research ideas, and a letter of motivation must reach the University before or on the closing date of the advertised post.

Apply online at www.sun.ac.za/english/careers Candidates may be subjected to appropriate psychometric testing and other selection instruments.

Should no feedback be received from the University within four weeks of the closing date, kindly accept that your application did not succeed.

"Davies, S, Ms <sdavies@sun.ac.za>" <sdavies@sun.ac.za>

TempleU BioinformaticsProgrammer

Bioinformatics Programmer for the Center for Computational Genetics and Genomics at Temple University Description:

Seeking a scientific programmer to join the new Center for Computational Genetics and Genomics (CCGG) under the direction of Dr. Jody Hey at Temple University, in Philadelphia, PA. Responsibilities will include assisting in developing and implementing pipelines for data analysis, and in the development of statistical and evolutionary genetic applications. The programmer will work closely with other CCGG faculty, programmers, postdocs and students.

The work requires experience and skill in implementing complex algorithms and data structures in multiple programming languages and with little regard to OS (i.e. Unix/Linux and MS Windows experience desired). Preference will be given to applicants with experience working with genetic or genomic data and to applicants with experience programing in a scientific research environment.

Additional duties may include assisting in supervising undergraduate researchers and helping to provide content for the center website and social media outlets.

Education Requirements: Some combination of formal education in both biology and computer science is desired. Masters or Ph.D preferred, however candidates with a Bachelor's degree and exceptional experience will be considered. Applicants with a Ph.D. in relevant areas are eligible for a research faculty appointment.

The position will be filled as soon as possible.

Information on the work environment is available at : https://bio.cst.temple.edu/~hey/CCGG/ and https://-bio.cst.temple.edu/~hey/ Applicants should provide: -A cover letter explaining suitability for the position and career goals. -Resume/CV -Email contacts for three letters of reference

Submit application materials by email to: Jody Hey hey@temple.edu Director, Center for Computational Genetics and Genomics Professor, Department of Biology, Temple University

Jody Hey <tuf29449@temple.edu>

TempleU CompuationalGenomics

Applications are invited for an Associate or Full Professor to be a founding member of the new Center for Computational Genetics and Genomics (CCGG) in the Department of Biology at Temple University. The CCGG is part of an ongoing expansion in computationally intensive sciences in the College of Science and Technology at Temple University. Applicants are expected to have a computationally focused research program that intersects with major genome-related questions, be they theoretical or empirical. For example some applicants' may be focused on developing tools or methodologies, whereas others will target important questions in organisms or systems that require computational approaches. The successful candidate will come to Temple having already established themselves as a leading scientist in their field, with this leadership manifested by the impact of their research, their success in attracting research funding, and their record as educator and mentor.

The successful candidate will join a vibrant research community that includes collaborations among different colleges and programs at Temple University, including other departments in the College of Science and Technology, as well as the Temple University School of Medicine, and Fox Chase Cancer Center. Temple University is the sixth largest provider of graduate school education in the USA, and Temple scholars benefit greatly from the high density of academic and biotechnology-related institutions in Philadelphia and the surrounding Delaware Valley, as well as from close proximity to New York City and Washington DC.

Applicants should submit their *curriculum vitae*, a brief summary of current and future research programs, and statement of teaching philosophy to https://-/apps.cst.temple.edu/ccgg.pl. Questions regarding the search can be directed to Jody Hey (hey@temple.edu). Review of applications will begin immediately and will continue until the position is filled.

For additional information see https://-bio.cst.temple.edu/ ~ hey/CCGG/ .Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

Jody Hey hey@temple.edu

Director, Center for Computational Genetics and Genomics https://bio.cst.temple.edu/~hey/CCGG/ Professor, Department of Biology https://bio.cst.temple.edu/~hey < https://bio.cst.temple.edu/heylab >

Department of Biology Temple University 1900 N. 12th Street Philadelphia, PA 19122

Office phone: 215 204 8569 fax: * *215 204 6646

tuf29449@temple.edu

UAlaskaFairbanks IntegrativeEvolutionaryGeneticist

Faculty position in Integrative Evolutionary Genetics at the University of Alaska Fairbanks

The Institute of Arctic Biology and the Department of Biology and Wildlife at the University of Alaska Fairbanks seek applicants for a tenure-track faculty position in integrative evolutionary genetics at the Assistant Professor level. Applicants must possess a Ph.D. in the biological sciences or a related field. Postdoctoral and teaching experience, a record of extramural funding, and evidence of the ability to supervise graduate students and collaborate with fellow faculty are preferred.

Outstanding applicants conducting innovative research that integrates evolutionary studies of genotype and phenotype are encouraged to apply. Research areas of special interest include adaptation and natural selection in northern or extreme environments, the evolutionary genetics of development, genomics and bioinformatics, evolutionary theory and population genetics, statistical and quantitative genetics, and the application of next-generation sequencing technologies to research questions in these areas.

Responsibilities will include advising Ph.D. and M.S. students and teaching two semester-long courses at the graduate or undergraduate level per year in evolution or genetics. The successful candidate will have the opportunity to interact and collaborate with approximately 50 faculty studying a diverse array of topics. The Department of Biology and Wildlife has approximately 450 undergraduate and 110 graduate students, including over 50 Ph.D. students.

Numerous field stations, research centers, and laboratory facilities are available (www.iab.uaf.edu/research/programs.php), including the Bonanza Creek LTER, Life Science Informatics, Core Facility for Nucleic Acid Analysis, R.G. White Large Animal Research Station, Center for Alaska Native Health Research, Animal Quarters, Toolik Field Station, Spatial Ecology Laboratory, Alaska Geobotany Center, University of Alaska Museum, and the Arctic Region Supercomputing Center. Additional details about our faculty and programs are available at the Institute of Arctic Biology website (www.iab.uaf.edu/).

Fairbanks has ready access to incredible outdoor opportunities, and as the second largest population center in Alaska, has unusual cultural, artistic, and recreational opportunities for a community of its size.

Applications must be completed online (www.uakjobs.com/) and should include a curriculum vitae, separate statements of research and teaching, and four letters of recommendation. The position is open until filled, but file reviews will begin 15 October 2013.

List URL for online job application: forthcoming

Questions can be addressed to Dr. Kevin Winker, kevin.winker@alaska.edu .

The University of Alaska is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply

kswinker@alaska.edu

UBath ResTech EvolutionaryQuantitativeGenetics

We are excited to be recruiting a research technician to work on a BBSRC funded project focused on the genetic basis and evolution of complex traits.

The project will combine detailed measurements of traits with genome wide molecular data from a large mouse population to understand the genetic basis underlying variation in the population. The technician will be required to work independently and will oversee several different technical components requiring different skill sets. The technician will support all aspects of the project, including animal husbandry during the production of the experimental populations, measurement of a series of quantitative traits, the preparation of genomic DNA samples and the processing of data sets.

The successful candidate will have a university degree in biology and relevant experience with laboratory based research in biology, including knowledge of basic molecular biology. Previous experience with husbandry of small mammals is desirable.

The position is fixed-term for 24 months and available to start as early as 1 January 2014. Later start dates may be possible and are subject to negotiation.

Applications must be submitted online through:

https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DVH1925 For an informal discussion about the role, please contact Jason Wolf: email: j.b.wolf@bath.ac.uk ph: +44 (0) 1225.385.012 Skype: jason.wolf

Note that there is also a postdoctoral position available as part of this project:

http://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DVH1894 jason@evolutionarygenetics.org

UBritishColumbia EvolutionaryMorphologyProtists

Research Associate Position in Comparative Ultrastructure of Marine Heterotrophic Flagellates

A twelve month, full-time Research Associate position is available in the Botany Department at The University of British Columbia. This position will provide high-level electron microscopy and group support for projects that examine the evolutionary morphology of marine heterotrophic flagellates.

The successful applicant must have a PhD in a relevant field and at least 4 years of postdoctoral research at the highest international standards relating to evolutionary protistology, molecular phylogenetics and single cell transmission electron microscopy. The successful applicant must also have a strong publication record in the comparative ultrastructure of marine heterotrophic flagellates. Research will be within the framework of the Tula Foundation Funded Centre for Microbial Diversity and Evolution. Additional responsibilities include the presentation of research findings at conferences, continued publication of research, and assistance with the day-to-day training of other research personnel.

Applicants should e-mail, no later than October 4, 2013, a curriculum vitae, a concise statement of research interests, the names of three referees and copies of two representative publications as a single PDF to:

Dr. Brian LeanderâDepartments of Botany & Zoologyâbleander@mail.ubc.ca âThis position will begin on January 1, 2014 and will be for twelve months.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. Canadians and Permanent Residents of Canada will be given priority.

bleander@mail.ubc.ca bleander@mail.ubc.ca

UCalifornia Berkeley PlantEvolution

POSITION ANNOUNCEMENT

PLANT EVOLUTIONARY BIOLOGY FACULTY CURATOR TENURE TRACK, ASSISTANT PROFESSOR

UNIVERSITY OF CALIFORNIA, BERKELEY

The Department of Integrative Biology and the University Herbarium are seeking applications for a tenure-track position in Plant Evolutionary Biology. We seek candidates who have demonstrated excellence, originality and productivity in research, and interest in undergraduate and graduate teaching as well as public outreach.

“Plant” is defined in the broadest, nonphylogenetic sense to include all the photosynthetic organisms studied in the herbarium: lichens, algae, or embryophytes; terrestrial or marine. “Evolutionary biology” is defined in the broadest sense to include ecology, systematics, phylogenetics, population genetics, conservation biology, ecophysiology, etc. any research area that would take advantage of and contribute to the herbarium’s physical collections and bioinformatics efforts. We are interested in innovative and integrative research that will complement existing faculty strengths. This is a split appointment between the Department of Integrative Biology and the University Herbarium: a faculty curator who will have half the normal teaching load in the department, along with curatorial responsibilities in the herbarium.

The position is anticipated to start July 1, 2014. Ph.D. or equivalent is required by date of hire.

Applications should include a curriculum vitae; a list of publications; copies of three significant publications; a brief description of research accomplishments; and a statement of research objectives and teaching inter-

ests. We are particularly interested in candidates who will contribute to diversity and equal opportunity in higher education through their teaching, research, and service; candidates are invited to address this issue in their application. Applicants should arrange to have three letters of reference submitted online. [All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: http://-/apo.chance.berkeley.edu/evalltr.html.] The deadline for applications is October 31, 2013.

UC Berkeley is committed to addressing the family needs of faculty. Women and minority candidates are especially encouraged to apply. The University of California is an Affirmative Action/Equal Opportunity Employer.

Applications should be submitted online through https://aprecruit.berkeley.edu/apply/JPF00220 . For additional information, please contact Dr. Brent Mishler (bmishler@berkeley.edu).

Chelsea D. Specht, PhD Associate Professor; Departments of Plant and Microbial Biology & Integrative Biology Curator of Monocots; University and Jepson Herbaria University of California, Berkeley 111 Koshland Hall, MC 3102 Berkeley, CA 94720 510.642.5601

cdspecht@berkeley.edu http://spechtlab.berkeley.edu/ cdspecht@berkeley.edu

UCalifornia Riverside PlantEvoDevo

POSITION ANNOUNCEMENT FACULTY POSITION - ASSISTANT/ASSOCIATE PROFESSOR PLANT EVOLUTIONARY DEVELOPMENTAL BIOLOGIST UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Botany and Plant Sciences invites applications for a faculty position in plant evolutionary developmental biology ("evo-devo"). This is a 9-month, tenure-track position at the Assistant or Associate level. The successful candidate is expected to work at the interface between modern developmental, phylogenetic, and evolutionary plant biology. The incumbent will join an active and collegial department with broad interests in plant biology. The individual will be expected to establish and maintain an independent, vigorous, innovative research program, teach at the undergraduate and graduate level in the areas of evolutionary developmental biology, plant systematics, or developmental anatomy/morphology to complement the Department's existing strength in cell and developmental biology, and participate in departmental and interdepartmental undergraduate and graduate programs.

The position includes an appointment in the Agricultural Experiment Station and will be available July 1, 2014. Applicants must hold a Ph.D. and postdoctoral experience is essential for candidates at the assistant level.

Evaluation of applications will begin Oct 15, 2013 and continue until the position is filled. Interested individuals should submit 1) a curriculum vitae, 2) a statement of research and teaching interests, and 3) have three letters of recommendation submitted (assistant level) or provide names and addresses of three references (associate level) through http://www.academicjobsonline.org/. For additional information, please contact Dr. Patricia Springer (pspringer@ucr.edu).

For additional information on the Department and the campus visit http://cnas.ucr.edu/ and http://www.plantbiology.ucr.edu/. The University of California, Riverside has a career partner program, and is an Affirmative Action Equal Opportunity Employer committed to excellence through diversity. http://affirmativeaction.ucr.edu/forms/-eeo_survey.html Tiffany Lindsey Academic Personnel Analyst College of Natural and Agricultural Sciences University of California Riverside 2400A Life Sciences Bldg (951) 827-4647 tiffany.lindsey@ucr.edu

Tiffany Joy Lindsey <tiffany.lindsey@ucr.edu>

UCalifornia Riverside PlantEvoDevo 2

FACULTY POSITION - ASSISTANT/ASSOCIATE PROFESSOR PLANT EVOLUTIONARY DEVELOPMENTAL BIOLOGIST UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Botany and Plant Sciences invites applications for a faculty position in plant evolutionary developmental biology ("evo-devo"). This is a 9-month,

tenure-track position at the Assistant or Associate level. The successful candidate is expected to work at the interface between modern developmental, phylogenetic, and evolutionary plant biology. The incumbent will join an active and collegial department with broad interests in plant biology. The individual will be expected to establish and maintain an independent, vigorous, innovative research program, teach at the undergraduate and graduate level in the areas of evolutionary developmental biology, plant systematics, or developmental anatomy/morphology to complement the Department's existing strength in cell and developmental biology, and participate in departmental and interdepartmental undergraduate and graduate programs.

The position includes an appointment in the Agricultural Experiment Station and will be available July 1, 2014. Applicants must hold a Ph.D. and postdoctoral experience is essential for candidates at the assistant level.

Evaluation of applications will begin November 1, 2013 and continue until the position is filled. Interested individuals should submit 1) a curriculum vitae, 2) a statement of research and teaching interests, and 3) have three letters of recommendation submitted (assistant level) or provide names and addresses of three references (associate level) through http://academicjobsonline.org/ajo/jobs/3187/. For additional information, please contact Dr. Patricia Springer (pspringer@ucr.edu).

For additional information on the Department and the campus visit http://cnas.ucr.edu/ and http://www.plantbiology.ucr.edu/. The University of California, Riverside has a career partner program, and is an Affirmative Action Equal Opportunity Employer committed to excellence through diversity. http://affirmativeaction.ucr.edu/forms/eeo_survey.html Thanks,

Tiffany

Tiffany Lindsey Academic Personnel Analyst College of Natural and Agricultural Sciences University of California Riverside 2400A Life Sciences Bldg (951) 827-4647 tiffany.lindsey@ucr.edu

Tiffany Joy Lindsey <tiffany.lindsey@ucr.edu>

UCalifornia SanDiego QuantEvolutionaryBiol

The Division of Biological Sciences (www.biology.ucsd.edu), section of Ecology, Behavior and Evolution, invites applications for a tenured position in Quantitative Evolutionary Biology, at the Associate or full Professor level. We are searching broadly for evolutionary biologists with strong quantitative skills working with any taxonomic group (animal, plant, microbial) or environment (terrestrial or aquatic). Research interests may include, but are not limited to: evolutionary theory and modeling; investigation of how genetic variation affects complex traits and their evolution; experimental evolution; and/or the use of genomic tools and comparative analysis to reconstruct the evolutionary histories of populations and species; with the goal of understanding how traits evolve under different kinds of selection, including those associated with global change. This position is part of a campus-wide initiative for growth in the areas of Systems and Quantitative Biology (qBio).

All candidates must have earned a Ph.D., or equivalent degree, and be committed to teaching at the undergraduate and graduate levels. Preference will be given to scholars with demonstrated excellence and creativity in research, scholarship, and a commitment to equity and inclusion in higher education. We are especially interested in candidates who have created or contributed to programs that aim to increase access and success of underrepresented students and/or faculty in the sciences, and/or have detailed plans to accomplish such goals. More information about initiatives to promote diversity in the Division can be found at: http://biology.ucsd.edu/diversity/index.html. This position is part of a multi-year faculty hiring program at junior and senior levels.

Review of applications will commence on October 15, 2013 and will continue until the position is filled. Interested applicants must submit a cover letter, curriculum vitae, statement of research, statement of teaching, a statement describing their past experience and leadership in fostering equity and diversity and/or their potential to make future contributions, 3-5 publications, and contact information for 3-5 references. Applications must be submitted through the University of California San Diego's Academic Personnel RECRUIT System at https://apol-recruit.ucsd.edu/apply/JPF00420 . ckett@ucsd.edu

UGeorgia EvolutionaryGenetics

Assistant Professor Position in Evolutionary Genetics at the University of Georgia The Department of Genetics at the University of Georgia invites applications at the Assistant Professor level for a tenure-track faculty position in evolutionary genetics. We welcome applications from any area of evolution research, from pattern to process, and we are particularly interested in candidates whose research uses established or emerging model animal systems. The UGA Department of Genetics has strengths in evolution, molecular genetics, and genomics, and we are looking for a colleague who will both strengthen and diversify our core areas.

The successful candidate will hold a Ph.D. or equivalent in biology or any relevant field, and have postdoctoral experience and a strong record of scientific productivity. The candidate will be expected to maintain a rigorous, externally funded research program, will teach in one of our undergraduate core courses, and will contribute to graduate training. For information about the department, see http://www.genetics.uga.edu , and for information on evolutionary biology research across UGA see: http://www.genetics.uga.edu/evolutionary/ .

To apply, candidates should submit a cover letter, curriculum vitae, copies of their three best publications, and statements of research interests and teaching philosophy (no more than 4 pages total) as a single PDF file to https://www.franklin.uga.edu/jobs/. Three letters of recommendation should be uploaded separately to the same web site. The committee will begin reviewing applications on November 15, 2013, and continue until the position has been filled.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. The University is an EEO/AA institution. Georgia is well known for its quality of life in regard to both outdoor and urban activities. The University of Georgia, the oldest state- chartered university in the United States, is a land/sea grant institution located in the city of Athens, 90 miles northeast of Atlanta.

Inquiries about this position can be directed to Kelly Dyer at kdyer@uga.edu .

Kelly Dyer Assistant Professor Department of Genetics University of Georgia Athens, GA 30602-7223 email: kdyer@uga.edu phone: 706 542 3154

Kelly Dyer <kdyer@uga.edu>

UGreifswald FungiNGS

The Ernst-Moritz-Arndt University Greifswald, Germany offers one position (65%, 13TV-L) for a PhD candidate. The job offer is part of the project "Patterns and processes in endophyte ecology" funded by the German Science Foundation - DFG. Project start is October 1st, 2013 with a maximal duration of 3 years.

Project description: The major aim of the present project is the assessment of diversity patterns of beech-leaf-inhabiting endophytic fungi and their contribution to litter decomposition. The field experiments will be set up in two contrasting habitats in the German Alps at the upper beech tree line and at a temperate valley site. Climate data as well as comprehensive data on plant fitness, leaf and litter biochemistry will be continuously assessed and provide the background for the central fungal metagenome and (meta)transcriptome analyses.

Research Profile: The applicant should have an excellent Diploma or Master graduation in a relevant field, such as mycology, botany, phytopathology, biology, microbiology, molecular ecology, biochemistry or bioinformatics. She/he should have profound laboratory and computational skills, preferably in the areas of DNA sequence analysis, molecular phylogeny, next generation sequencing and statistics. A strong motivation to publish in international scientific journals is assumed. Knowledge of the German language is welcome.

The Ernst-Moritz-Arndt University seeks to increase the proportion of women in those fields of science where they are underrepresented. Therefore, women are strongly encouraged to apply for the offered positions. Disabled persons with equal qualifications will be given preference.

The requested documents (i.e., letter of motivation, CV, publication record, references) have to be submitted by email (preferably as one pdf document) until 30th September 2013 to Dr. Martin Unterseher, Ernst-Moritz- Arndt University, Institut of Botany and Landscape Ecology, Soldmannstr. 15, D-17487 Greifswald, Germany.

Please email your documents to martin.unterseher@uni-greifswald.de Ernst-Moritz-Arndt-Universität Greifswald Institut für Botanik und Landschaftsökologie AG Allgemeine und Spezielle Botanik www.asbot.botanik.uni- greifswald.de Soldmannstr. 15 D-17487 Greifswald 17487 Greifswald

martin.unterseher@uni-greifswald.de

Illinois is an affirmative action, equal opportunity employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. www.inclusiveillinois.illinois.edu . John Polk LAS Dean's Fellow 2013 Associate Professor Department of Anthropology College of Liberal Arts and Sciences

PH. 217-333-3676

"Polk, John David" <jdpolk@illinois.edu>

UIllinois UrbanaChampaign LifeHistoryEvolution

The Department of Anthropology at the University of Illinois at Urbana-Champaign seeks to hire a biological anthropologist for a full-time (nine-month) tenure-track or tenured position at the level of Assistant or Associate Professor. Target start date is August 16, 2014. We are interested in candidates with established research programs in Life History Theory, Human Ecology, Human Health, Growth and Development, Epidemiology, Epigenetics or Evolutionary Medicine. Preference will be given to candidates with demonstrated excellence in teaching human gross anatomy, and whose research complements existing strengths in the Department of Anthropology.

Applicants must have a Ph.D. (or equivalent) in hand at time of appointment. Applications from medical scholars (MD/PhD) are strongly encouraged. A successful candidate at the level of Assistant Professor should present evidence of an active research agenda, effort in seeking external funding and a strong commitment to teaching. Candidates for Associate Professor should demonstrate a record of scholarly publications, grants and awards, and excellence in teaching and student mentoring. Scholarly excellence is our primary criterion for evaluation. Salary will be commensurate with experience.

Instructions for the application process can be obtained by visiting the following web address: http:/-/go.illinois.edu/ANTHfaculty . To apply please upload PDF files of your cover letter, curriculum vitae, and research and teaching statements. The online application will require names and contact information for three references.

Please contact Karla Harmon (kharmon@illinois.edu) if you have questions. In order to ensure full consideration, applications materials (in PDF format only) must be received by December 2, 2013.

UKansas TheoreticalEvolution

FACULTY POSITION IN THEORETICAL ECOLOGY: The Department of Ecology & Evolutionary Biology (EEB) and the Kansas Biological Survey (KBS) at the University of Kansas invite researchers with expertise in theoretical ecology to apply for a joint position at the Advanced Assistant/Associate Professor (50%) and Advanced Assistant Scientist/Associate Scientist (50%) level. The position will begin as early as August 18, 2014. We seek a highly collaborative researcher with a focus at any ecological level (from the organism to the biosphere) who uses analytical, simulation, and/or computational approaches. Examples of areas of specialization may include (but are not limited to): population, community, or landscape dynamics, ecosystem processes, climate change, epidemiology, or water resources. The successful candidate will be expected to: develop and maintain an externally funded program of research; teach in ecology and an area of specialization; and have a commitment to service within EEB, KBS, the College of Liberal Arts and Sciences, the University, and the profession. This position has an increased allocation of effort to research due to its joint nature. The University of Kansas is especially interested in hiring faculty members who can contribute to four key campus-wide strategic initiatives: (1) Sustaining the Planet, Powering the World, (2) Promoting Well-Being, Finding Cures, (3) Building Communities, Expanding Opportunities, and (4) Harnessing Information, Multiplying Knowledge. For more information, see http://www.provost.ku.edu/strategic-plan/-initiatives. Required: Ph.D. and at least 2 years in a tenure-track or equivalent position, demonstrated research excellence in ecological theory or modeling, and commitment to excellence in teaching ecology courses and mentoring of graduate and undergraduate students. For appointment at the rank of Associate Professor with tenure: all of the above are required, plus an

established record of publ ications and demonstrated excellence in teaching a variety of courses in one's specialty area. The candidate must meet KU standards for research, teaching, and service sufficient to qualify for an appointment at the rank of Associate Professor with tenure.

For a complete announcement and to apply online, go to https://employment.ku.edu and click "Search Faculty Jobs" then search openings by "theoretical ecologist". On-line application consists of: (1) cover letter, (2) curriculum vitae, (3) statement of research interests and future directions, (4) PDF copies of three selected publications/manuscripts, (5) statement of teaching and mentoring philosophy, experience, and interests, and (6) names and contact information of three references.

Review of applications will begin October 28, 2013, and will continue as long as needed to identify a qualified pool. For more information visit http://www2.ku.edu/~eeb or http://www.kbs.ku.edu. EOE M/F/D/V

Feel free to email me with any questions!

cheers, Maria

Maria E. Orive Associate Professor/Ecology & Evolutionary Biology Faculty Ombudsman/University Ombuds Office University of Kansas

morive@ku.edu (785) 864-3763

morive@ku.edu

UKentucky MathCompBiol 2

Job: UKentucky Math/Comp Bio

Assistant Professor of Mathematical/Computational Biology

The Department of Biology at the University of Kentucky seeks an innovative researcher/educator using mathematical, statistical, or computational methods to address compelling questions in any area of biology. The department has strengths in cell biology, developmental biology, ecology, evolutionary biology, and behavior; applicants with research focused in one or more of these areas and complementary to existing expertise within Biology and with other units (e.g. Mathematics and Statistics) will receive special consideration. Candidates must have a Ph.D. or equivalent degree and postdoctoral experience demonstrating excellence in their field. Responsibilities for the successful candidate include establishment of an independent research program and contribution to the teaching mission of the Department.

Applicants should submit a CV, a research plan, and a description of teaching interests through our website (http://bio.as.uky.edu/employment-bio). Candidates should also arrange for three letters of recommendation to be submitted as instructed at the application web site. Please note that while the original announcement of this position stated that review of applications began September 20, 2013, we are continuing to consider applications until the position is filled.

Questions may be directed to the Search Committee Chair, David F. Westneat (david.westneat@uky.edu) or the Biology Department Chair, Vincent Cassone (vincent.cassone@uky.edu). For more details on the department and the university, visit our website (http://biology.uky.edu) or contact Dr. Cassone, Chair, at (859) 257-6766.

The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical region. It is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply. The University also supports family-friendly policies.

Dave Weisrock (dweis2@uky.edu)

"Weisrock, David" <david.weisrock@uky.edu>

UMaryland Biology

TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF BIOLOGY, UNIVERSITY OF MARYLAND

The Department of Biology at the University of Maryland, College Park, is seeking to hire several exceptional tenure-track faculty members at any professional rank. Successful candidates will extend, complement, or integrate the Department's existing research strengths in ecology, evolutionary and developmental biology, comparative genomics, sensory neuroscience, and biophysics. Each will be expected to establish a vibrant research program and to be a creative and dedicated teacher at the undergraduate and graduate levels. More information about the Department can be found at www.biology.umd.edu. In certain cases, joint appointments with other campus units may be appropriate.

To apply, please visit https://ejobs.umd.edu/postings/-20536. Use this site to submit a CV, a concise statement of current and future research interests, a description of teaching interests, and contact information for three references. Applications received by October 11, 2013 will receive best consideration, but review will continue until all positions are filled.

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

UMassachusetts Boston PathogenEvolution

Assistant Professor in Ecology/Evolution of Pathogens - UMass/Boston

The Biology Department at the University of Massachusetts, Boston seeks applicants for a full-time tenure track Assistant Professor in the Ecology/Evolution of Diseases in natural or domesticated populations starting September 1, 2014. Successful applicants will be well versed in evolutionary and ecological theory of host-pathogen relationships, and engaged in research on the ecological circumstances and evolutionary processes associated with epidemics and their impacts on natural populations. Applications will be particularly welcome from candidates who are working on some aspect of global change, biodiversity, or evolutionary genomics and who utilize creative experimental approaches that investigate how host-pathogen interactions affect the structure, dynamics and function of communities and ecosystems (marine, terrestrial or aquatic). The successful applicant is expected to establish an externally funded research program, direct the research of students at the undergraduate, masters and doctoral levels, and interact with a dynamic group of ecologists and environmental biologists.

Excellence in teaching at the undergraduate and graduate levels is expected. A Ph.D. and postdoctoral training (or equivalent professional experience) in population genetics, ecology or evolution is required.

The University has a strong faculty with substantial research and doctoral programs in Environmental Biology; Molecular, Cellular and Organismal Biology; and Environmental Sciences. Excellent opportunities exist to collaborate and engage in multidisciplinary research on campus, across the five UMass campuses and at UMass Boston's Nantucket Field Station.

Application materials must be submitted online. Please include a statement of teaching and research interests and goals, curriculum vitae, and 3-5 representative reprints. Applicants should also arrange for three letters of reference to be sent to Ecology/ Evolution Pathogens Search, Biology Department, University of Massachusetts, 100 Morrissey Blvd., Boston, MA 02125.

For further information, visit the Biology Department website at http://www.umb.edu/academics/-csm/biology, or contact Ron Etter, Chair of Search Committee, at ron.etter@umb.edu or (617)-287-6613. Review of applications will begin on November 15, 2013 and will continue until the position is filled. Application Information

Contact: University of Massachusetts - Boston

Online App. Form: http://-umb.interviewexchange.com/candapply.jsp?JOBID=-42747&jobboard=148 Ron J. Etter Professor Biology Department University of Massachusetts 100 Morrissey Blvd. Boston, MA 02125 Voice 617-287-6613 FAX 617-287-6650 email ron.etter@umb.edu

Ron Etter <ron.etter@umb.edu>

UMiami SystemsBiology

Faculty Searches in Biology at the University of Miami

Neuroscience: Outstanding applicants engaged in answering fundamental questions in systems level neuroscience by combining optical approaches with molecular genetics are encouraged to apply. To promote synergy with other laboratories, the successful candidate will be housed in the new Neuroscience Annex that brings together faculty from diverse departments at the University of Miami including Biology, Psychology, and the Miami Project to Cure Paralysis. Inquiries should be directed to the Search Chair at neuroscience@bio.miami.edu.

Systems Biology: Outstanding applicants engaged in answering fundamental questions in evolution using both computational and experimental approaches are encouraged to apply. Applications from biologists with the desire to interact with a group of interdisciplinary scientists in Complexity Science are attractive. Inquiries should be directed to the Search Chair at evol-

sysbio@bio.miami.edu.

To be eligible for these tenure-track appointments at the Assistant/Associate Professor level, successful candidates must hold a PhD, have postdoctoral experience, are expected to develop vigorous, externally funded research programs and to teach at both the undergraduate and graduate levels. More information about the Department and University can be found at http://-www.as.miami.edu/biology/ .Applicants should submit a cover letter describing interactions they foresee with existing university research programs, a curriculum vita, two representative publications, a research statement, a teaching statement and the names of at least three references online to http://www.as.miami.edu/-sciencecluster/ . Application materials must be received by November 15, 2013.

The University of Miami is an affirmative action, equal opportunity employer committed to expanding the diversity of its faculty. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply.

Alexandra C. C. Wilson, PhD Associate Professor

Department of Biology University of Miami

1301 Memorial Drive Coral Gables FL 33146 USA

acwilson@bio.miami.edu http://www.bio.miami.edu/-acwilson/ Alex Wilson <acwilson@bio.miami.edu>

UMichigan LabTech PlantEvolutionEcologicalGenetics

RESEARCH TECHNICIAN POSITION: PLANT EVOLUTIONARY/ECOLOGICAL GENETICS, UNIVERSITY OF MICHIGAN, ANN ARBOR, MI

A full-time technician position is available in the Baucom lab in the EEB Dept at the University of Michigan in Ann Arbor, MI. General research in the laboratory addresses plant adaptation to environmental stresses. Duties will include working at the Universitys main campus, in the nearby greenhouses, at nearby field sites, and may include some travel for germplasm collections. The technician's immediate responsibilities will be to carry out large greenhouse and molecular genetics studies as well as general lab maintenance. Previous experience with basic molecular techniques such as DNA isolation, PCR and cloning is desired.

The candidate should have a BA or BS in biology, genetics, horticulture or plant sciences, previous experience performing independent research, the ability to work well in a group environment, and the willingness to supervise undergraduates. The position is ideal for a highly motivated, organized person interested in gaining field and laboratory skills prior to starting graduate school.

While I cannot accept official applications until this position is created at the University level, if this would be a position in which you might be interested, please email a CV, a cover letter of qualifications and interests, and the names and contact information of three references to rsbaucom@umich.edu. Please feel free to contact me with any questions at the above email. Review of applications will begin September 20, 2013 and continue until a suitable candidate is found. Salary is commensurate with experience and includes benefits. The position is initially available for 1 year with the potential for extension at least another year depending on performance. The University of Michigan is an equal opportunity employer.

Regina S Baucom 2059 Kraus Natural Science Building Department of Ecology and Evolutionary Biology University of Michigan Ann Arbor, MI rsbaucom@umich.edu

Regina Baucom <rsbaucom@umich.edu>

UMinnesota GenomeVariation

Faculty positions available at the University of Minnesota

The College of Biological Sciences at the University of Minnesota seeks candidates for up to four tenure-track assistant professor positions. Candidates for more senior positions are also encouraged to apply. These positions are part of a larger effort to build a critical mass of researchers using bioinformatics, genomic, and genetic technologies to study epigenetic or non-coding RNA-mediated regulation. We welcome applicants who study epigenetic processes, including gene regulation in animals and plants, imprinting, gene silencing, RNA interference, non-coding RNA-mediated genetic regulation, and reprogramming. Since the disciplines of bioinformatics and computational biology are foundational in genomics research, we seek applicants who are generating new approaches in these fields. Researchers who utilize a combination of tools including genomics, molecular genetics, biochemistry, and bioinformatics to study

fundamental questions about genetics, development, or the basis of complex phenotypes and behaviors are also encouraged to apply. The development of a strong research program in epigenetics, non-coding RNAs, or bioinformatics is expected to catalyze interdisciplinary and translational research and synergize with existing programs.

Duties and Responsibilities Successful candidates will develop a strong, extramurally funded research program investigating genomics, epigenetics, or non-coding RNA-mediated genetic regulation. Successful candidates are also expected to pursue a scholarly, innovative teaching program, advise undergraduate, graduate and postdoctoral students, and participate in professional service. These positions provide opportunities for collaboration in genetics, genomics, biochemistry, cell and developmental biology, and bioinformatics. Successful candidates will have access to students in multiple graduate and professional programs.

Required Qualifications Ph.D. and/or M.D. (or foreign equivalent) and appropriate post-doctoral experience Strong publication record in disciplines related to the position Potential to initiate and sustain strong research program in the field of genomics, epigenetics, or non-coding RNA Ability to communicate effectively with multiple audiences Track record of interacting creatively, collaboratively and productively with other scientists Evidence of commitment to teaching and student learning Materials Required: Letter of application/intent CV Names/contact information for three professional references Statements of research and teaching

Environment Founded in 1851, the University of Minnesota, with its five campuses and 67,932 students, is one of the largest, most comprehensive universities in the United States, and ranks among the most prestigious research universities in the world. It is both a major research institution, with scholars of national and international reputation, and a state land-grant university, with a strong tradition of education and public engagement.

The University of Minnesota-Twin Cities campus has extensive research facilities; genomics core facilities, field research stations, greenhouses, museum collections, herbarium and laboratories. The campus is located in the heart of the Minneapolis-Saint Paul metropolitan area, which is rich in cultural and natural attractions.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University supports the work-life balance of its faculty and especially encourages applications from women and members of under-represented groups.

Ran Blekhman, Ph.D. | Assistant Professor Dept. of Genetics, Cell Biology and Development | Dept. of Ecology, Evolution, and Behavior University of Minnesota | 222 Cargill | 1500 Gortner Ave., St. Paul, MN 55108 Office: (612) 624-4092 | Fax: (612) 624-6264 | blekhman@umn.edu BlekhmanLab.org

blekhman@umn.edu

UNebraska TheoreticalQuantGeneticist

The Institute of Agriculture and Natural Resources (IANR) at the University of Nebraska-Lincoln (UNL) is committed to world-class excellence in applications of life, agricultural and natural sciences towards a sustained high quality of life for the citizens of Nebraska and a quickly growing global population. Reflecting this commitment, IANR has announced an immediate initiative to hire more than 30 new tenure-track faculty members to fill strategic needs in high-impact areas of Science Literacy, Stress Biology of Plants and Animals, Healthy Humans, Healthy Agricultural and Natural Resources Systems, and Computational Sciences. To view a listing of all of these positions, and for details as positions are released, please see (ianrhome.unl.edu/growianr).

Within this growth initiative, IANR is seeking applicants for a tenured, or tenure-leading position in the Department of Animal Science, to develop a nationally and internationally recognized research program in the area of Livestock Genomics, and with rank to be determined by the qualifications of the successful candidate. This position will work closely with two recent hires filling roles in Functional Animal genomics and Animal Breeding Genomicist. Responsibilities and qualifications specific to the position are as follows:

1. Animal Theoretical Quantitative Geneticist V Research (70%) - The successful candidate will contribute to a team effort focusing on genetic improvement of livestock populations. Research may include development of statistical theory integrating genomic and phenotypic information addressing both additive and non-additive genetic variation. Research opportunities in-

clude the development of methodologies to discover and exploit epistatic and dominance effects in the development of genomic predictors, methods of enhancing the accuracy of genomic predictors across populations, and expanding methodologies for the analysis of threshold and survival traits using high-density genotypes and sequence data. Teaching (30%) - Teaching responsibilities will include graduate level courses in advanced quantitative genetics. Specific teaching responsibilities could include undergraduate Animal Breeding, graduate Population Genetics, and development of graduate courses in whole-genome enabled selection, mixed-model prediction and other advanced quantitative genetics courses that fit the expertise and interests of the successful candidate. Qualifications - A Ph.D. degree, completed before employment begins, with emphasis in quantitative genetics with strong training in statistics is required. Postdoctoral and/or independent research experience is greatly preferred. Experience in genome-wide association analysis, with ability to integrate high-density genotype or sequence data sets, to identify genetic variation that influences complex traits, is preferred. An understanding of theoretical and computational methodology used in the analysis of quantitative and molecular data for genetic prediction is preferred. Programming skills with multiple computer languages is desired.

The successful candidate for this position will have access to large, unique, highly characterized UNL populations of cattle, swine and mice, including disease and stress susceptibility phenotypes in the latter two populations. Opportunities to collaborate with the US Meat Animal Research Center scientists using their large phenotyped populations are also available. Research responsibilities will include development of a successful research program, with publications in refereed journals, a strong record of extramural grant funding, and supervision of graduate students and post-doctoral associates. Each successful candidate must document experience in conducting research and demonstrate strong written and oral communication skills, ability to secure extramural funding, demonstrated ability and/or potential to teach and mentor students successfully at the graduate and undergraduate level, and desire to work in a team environment to further strengthen collaborative links with multiple departments and colleges at UNL. Persons in each of these positions must be strongly committed to undergraduate and graduate teaching. As a College of Agricultural Sciences and Natural Resources faculty member, the successful candidate is also expected to participate in teaching related activities outside the classroom. These activities include enhancing science literacy of the public, undergraduate recruitment and placement, and advising and mentoring of undergraduate and graduate students.

Daniel Ciobanu <dciobanu@unl.edu>

UNorthCarolina ChapelHill EvolutionaryBiol

Dear Evoldir colleagues,

The Department of Biology at UNC Chapel Hill invites applications for a tenure-track Assistant Professor in Evolutionary Biology. Applications from any area of evolutionary biology are encouraged. We seek individuals addressing fundamental questions in evolutionary biology using integrative approaches that cut across disciplinary boundaries. Areas of particular interest include (but are not restricted to) evolution and development, the use of phylogenetic or comparative methods to address macroevolutionary questions, and genomic approaches in natural populations of non-model species.

The successful candidate will interact with the diverse community of biologists within the Biology Department and across the university, and will complement ongoing initiatives in Quantitative Biology, Genomics, and Environment and Ecology. Questions regarding the position should be directed to Karin Pfennig (kpfennig@unc.edu).

Review of applications will begin October 14, 2013 with interviews occurring in early 2014. The position will be effective on or after July 1, 2014. For application details, please see http://unc.peopleadmin.com/-postings/32180 . The Department of Biology consists of over 40 faculty engaged in basic and interdisciplinary research in the life sciences, within the department and between other departments and schools at UNC. UNC faculty, postdocs and graduate students also routinely interact with colleagues at nearby Duke and North Carolina State Universities, as well as other institutions in Research Triangle Park. The quality of life in North Carolina's Triangle area is consistently rated among the highest in the nation. UNC was listed as one of the top 20 "Best Places to Work in Academia" in 2013 by The Scientist magazine. To learn more about the department and the university, visit http://www.bio.unc.edu . Todd Vision Associate Professor, Dept of Biology and Associate Director for Informatics, NESCent University of North Carolina at Chapel Hill

tjv@bio.unc.edu

UNottingham EvolutionaryBiol

Nottingham Research Fellowships and Anne McLaren Fellowships School of Life Sciences, University of Nottingham, UK

The University of Nottingham has recently advertised a call for these fellowships WHICH PHASE INTO FACULTY POSITIONS. See http://www.nottingham.ac.uk/research/fellowships/nottingham-research-fellowships/index.aspx for the Nottingham Research Fellowships (men and women) and http://www.nottingham.ac.uk/research/fellowships/anne-mclaren-fellowships/index.aspx for the Anne McLaren Fellowships (women only) Ecologists and evolutionary biologists are very welcome to apply, see http://ecology.nottingham.ac.uk/people.html and http://www.nottingham.ac.uk/biology/research/index.aspx). We have interests in a broad range of areas, 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, or to other relevant faculty.

Associate Professor of Evolutionary Ecology School of Life Sciences 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://nottingham.ac.uk/life-sciences/people/andrew.maccoll http://ecology.nottingham.ac.uk/maccoll.html Andrew.Maccoll@nottingham.ac.uk

UOregon ResAssist NematodeGenomics

Research Assistant Institute of Ecology and Evolution Posting: 13386 Location: Eugene Closes: Open Until Filled

RESEARCH ASSISTANT. Several full-time research positions available at the University of Oregon, Eugene. Candidates having a B.A, B.S. or M.S. are invited to apply. We seek a highly motivated and responsible individual who enjoys participating in an interactive intellectual environment to join us in our studies of genetics and genomics using the nematode Caenorhabditis elegans and its relatives as model systems. Major projects requiring assistance include the influence of drug interventions and genetic variation on longevity, genomic variation within natural populations, and the evolution of sexual interactions and mating systems. Depending on the project, the candidate will be responsible for conducting large scale longevity assays, coordinating long-term selection experiments, performing genetic crosses, preparing samples for whole genome sequencing, and performing general laboratory management/maintenance. Previous experience with basic molecular techniques and/or the genetics of model organisms is preferred. Further details regarding ongoing research available at http://www.uoregon.edu/~pphil. Initial appointment for one year with salary commensurate with education and experience. Renewal possible based on performance, funding and need. Please send CV and names of three references to: Patrick Phillips, Ph.D., via ie2jobs@uoregon.edu or c/o Search # 13386, Institute of Ecology and Evolution, 5289 University of Oregon, Eugene, OR 97403-5289.

The successful candidate will support and enhance a diverse learning and working environment. To ensure consideration, please submit application materials by September 25, 2013. The position will remain open until filled.

The University of Oregon is an equal-opportunity, affirmative-action institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

INSTITUTE OF ECOLOGY AND EVOLUTION 5289 University of Oregon, Eugene OR 97403-5289 F (541) 346-2364 http://IE2.uoregon.edu Equal-opportunity, affirmative-action institution committed to cultural diversity and compliance with the Americans with Disabilities Act

IE2jobs <ie2jobs@uoregon.edu>

UPuertoRico Genetics

The Department of Biology, University of Puerto Rico, Mayagüez (UPR-M, http://biology.uprm.edu/) invites

applications for a Tenure-track Position as Assistant-Professor in Genetics; to begin July 2014 or until position is filled. A successful candidate must have a Ph.D., postdoctoral experience is preferred, demonstrated teaching skills for development of undergraduate and graduate courses including, but not limited to, General Genetics and Human Genetics, and the ability to design and develop other courses in the area of specialty. A strong background in bioinformatics is preferred. The successful candidate will be expected to develop an active, externally funded research program with undergraduate and graduate students, and collaborate with other faculty. UPR-M recently established the Caribbean Genome Center (http://-genomes.uprm.edu/drupal/), a new next-generation sequencing facility with a bioinformatics lab, which is to serve as a hub of collaboration among the faculty and students interested in genetics research. External funds, when obtained, will allow eligibility for release time during the academic year. UPR-M is a Land-Grant, Sea-Grant, and Space-Grant institution; interaction with faculty and researchers in these fields is encouraged. Puerto Rico represents a suitable setting to develop research in tropical systems, and the University of Puerto Rico stimulates collaborations with active faculty and students in a wide range of the Biological Sciences and Biotechnology. Benefits include health insurance, retirement plan and tuition waivers in the UPR system for immediate family members according to the Certification 50 2011-2012 of the University of Puerto Rico. Knowledge of English and Spanish or a willingness to learn is desirable. Please send Curriculum Vitae, statement of research and teaching interests, and three letters of reference by November 1, 2013 via e-mail to brendam.soto@upr.edu. For further information please contact Dr. Matias J. Cafaro (matias.cafaro@upr.edu), Department of Biology, University of Puerto Rico, Mayagüez Campus, Call Box 9000, Mayagüez, Puerto Rico 00681-9000. The University of Puerto Rico is an Equal Opportunity Employer.

Taras Oleksyk UPRM Biology

Taras Oleksyk <oleksyk@gmail.com>

USheffield BioinformaticsProgrammer

The Department of Animal & Plant Sciences, University of Sheffield, seeks to appoint a Research Assistant/Computer Programmer to assist Professor Roger Butlin, Professor Mark Beaumont (University of Bristol) and a Postdoctoral Research Associate in the development of user-friendly tools for the application of Approximate Bayesian Computation methods for the inference of demographic history and natural selection using high-throughput genetic data. You will develop and optimise code for individual analytical modules, set up integrative pipelines and help to ensure user-friendly access. You should be either a computer scientist or statistician with an interest in applications in biology or a biology graduate with advanced programming skills.

The post is available from 1 January 2014 and is for a fixed term of 12 months.

To apply, go to www.shef.ac.uk/jobs, ref: UOS007158

For more information, contact Roger Butlin (r.k.butlin@shef.ac.uk) or Ludovic Duvaux (l.duvaux@shef.ac.uk)

r.k.butlin@sheffield.ac.uk

UStThomas Minnesota EvoDevo

This is a broad search, but we will certainly consider folks working on Evo-Devo issues.

The Biology Department at the University of St. Thomas seeks a developmental biologist for a tenure-track assistant professor position. This is a broad search and the department is interested in applicants working in any area of developmental biology.* *The successful applicant will demonstrate the ability to 1) develop a research program that provides significant opportunities for undergraduate collaborators and is highly competitive for external funding, and 2) deliver an innovative program for teaching developmental biology to undergraduates. Research support will include significant start-up funds, laboratory space, and time allocation for research involving undergraduates. A PhD is required, postdoctoral experience is strongly preferred.

The Biology Department is committed to undergraduate education and high-quality research with undergraduate student collaborators. Our modern facilities are well equipped with state-of-the-art instrumentation. Our faculty members are regular recipients of major, externally funded research grants and are active in their fields. We offer BA and BS degrees in Biology, and BS degrees in Biochemistry, Neuroscience,

and Environmental Science. For more information, visit http://www.stthomas.edu/biology . Established in 1885, the University of St. Thomas is located in the major metropolitan area of Minneapolis-St. Paul, and is Minnesota's largest private university. Its 10,000 students pursue degrees in a wide range of liberal arts, professional, and graduate programs. Inspired by the Catholic intellectual tradition, the University of St. Thomas educates students to be morally responsible leaders who think critically, act wisely, and work skillfully to advance the common good, and seeks to develop individuals who combine career competency with cultural awareness and intellectual curiosity. The successful candidate will possess a commitment to the ideals of this mission. The University of St. Thomas has a strong commitment to the principles of diversity and inclusion, to equal opportunity policies and practices, and to the principles and goals of affirmative action. In that spirit, the University welcomes nominations and applications from a broad and diverse applicant pool.

To apply, visit http://jobs.stthomas.edu. Applicants must submit a cover letter, a CV, a description of research agenda, a statement of teaching philosophy and experience, and contact information for three references. For additional information contact Dr. Adam Kay at adkay@stthomas.edu. Review of applications will begin October 1, 2013 and will continue until the position is filled.

Adam Kay Director of Environmental Science Associate Professor of Biology University of St. Thomas St. Paul, MN 55015 kayresearch.wordpress.com http://ustsustainblog.com/ http://ustbiologyblog.wordpress.com/ basicadamkay@gmail.com

UTexas Tyler ComputationalBiol

The Department of Biology at The University of Texas at Tyler invites applications for three tenure-track, Assistant Professor positions.

Developmental Biology. Applicants with expertise using model systems to study epigenetics, stem cell biology, evolutionary developmental biology, or sub-cellular developmental processes such as transcriptional regulation are encouraged to apply. Ph.D., postdoctoral experience, strong publication record, grantsmanship, and teaching experience are required.

Computational Biology. Applicants with strong computational skills and expertise in bioinformatics, comparative genomics, transcriptomics, pharmacogenomics, evolutionary genomics, phylogenomics, metagenomics, and systems biology are encouraged to apply. Ph.D., postdoctoral experience, strong publication record, grantsmanship, and teaching experience are required.

Microbiology. Applicants specializing in microbe-microbe, microbe-environment, and microbe-host interactions using genomics, proteomics, metagenomics, transcriptomics, or systems biology are especially encouraged to apply. Ph.D., postdoctoral experience, strong publication record, grantsmanship, and teaching experience are required.

The department: The Department of Biology offers a stimulating intellectual environment and has an excellent reputation in research and teaching. Twelve faculty members undertake research in diverse subdisciplines, including genomics, population genetics, evolution, ecology, molecular biology, and physiology. Research seminars by invited speakers are held weekly. A new expansion with state-of-the-art research and teaching labs has just been completed along with renovation of all existing teaching labs. Three large and sophisticated walk-in environmental chambers are available for research and a computer lab will connect UT Tyler to the Texas Advanced Computer Center via a 10 Gb internet connection. A College of Pharmacy is slated to open in Fall 2015. For additional information, please visit www.uttyler.edu/biology . UT Tyler and Tyler: Tyler is located 90 miles east of Dallas in the scenic Piney Woods area of East Texas. Tyler is the cultural center of East Texas, a region with over one million people, and boasts many amenities such as museums, a planetarium, a ballet, a symphony orchestra, and a renowned performing arts center. One of the 15 campuses of the UT System, UT Tyler offers excellence in teaching, research, artistic performance and community service. More than 80 undergraduate and graduate degrees are available at UT Tyler, which has an enrollment of more than 7,000 high-ability students at its campuses in Tyler, Longview and Palestine.

How to apply: Applications for all positions including (as one PDF file) curriculum vita, statements of research interests and teaching philosophy, and reprints of 3 publications should be sent to Dr. Blake Bextine at bbextine@uttyler.edu (developmental biology), Dr. Lance Williams at lwilliams@uttyler.edu (computational biology), and Dr. Jim Koukl at jkoukl@uttyler.edu (microbiology). Three letters of reference should be sent to the same addresses. Screening will begin immediately and continue until a suitable candidate is identified. This is a security sen-

sitive position and subject to criminal history check. The University of Texas is an Equal Opportunity Employer; women and minorities are encouraged to apply. Full job description: www.uttyler.edu/biology . jbanta@uttyler.edu

UToronto AquaticEcologyEnvironSci

Assistant Professor in Ecology and Evolutionary Biology and the School of the Environment, University of Toronto

The Department of Ecology and Evolutionary Biology (www.eeb.utoronto.ca) and the School of the Environment (http://www.environment.utoronto.ca/) at the University of Toronto invite applications for a cross-appointed tenure track position in aquatic ecology and environmental science. The position is at the Assistant Professor level with an expected start date of July 1, 2014.

We seek a candidate who conducts conceptually driven research, using field, lab, and/or quantitative approaches to study issues in aquatic ecology. Research may be at the level of population, community, landscape, and/or ecosystem. We seek applications from candidates whose research program fits well with the highly collaborative research in our Department and in the recently formed School. Successful applicants will have a PhD, with an outstanding academic record and will be expected to build an active, externally funded and internationally recognized research program. The appointee will demonstrate potential for excellence in teaching and contributions to the education and training of undergraduate and graduate students in both EEB and the School. Salary to be commensurate with qualifications and experience.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution and is an internationally leading institution in environmental science. Strong links exist between the Department of Ecology and Evolutionary Biology and the School of the Environment with the Royal Ontario Museum, the Faculty of Forestry, and many cognate departments involved in environmental science. The University owns a nearby field station dedicated to ecological research (the Koffler Scientific Reserve, (www.ksr.utoronto.ca). A partnership with the Ontario Ministry of Natural Resources provides access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Strong collaborations exist between the Department and School with the Ontario Ministry of the Environment, Fisheries and Oceans Canada, and Environment Canada.

Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

Applications are to be made online by clicking on the following link: https://utoronto.taleo.net/-careersection/10050/jobdetail.ftl?lang=3Den&job=-1300988 Applications must include a CV, statements of research and teaching interests and three representative publications. Applicants should arrange to have three confidential letters of recommendation sent directly to: Professor Donald Jackson, Chair, Department of Ecology and Evolutionary Biology, 25 Willcocks Street, University of Toronto, Toronto, Ontario, M5S 3B2 Canada. Electronic submission of applications in PDF or WORD format is preferred. Letters of reference should be e-mailed to chairsec.eeb@utoronto.ca or faxed to 416-946-5715 if email is not possible, but must be followed by an original signed copy. Deadline for receipt of applications is October 23, 2013.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

helen.rodd@utoronto.ca

UToronto EvoEcoDisease BiodiversityConservation

Assistant Professor in Ecology and Evolutionary Biology, University of Toronto

The Department of Ecology and Evolutionary Biology at the University of Toronto (www.eeb.utoronto.ca) invites applications for a tenure track position in ecology and evolutionary biology. The position is at the Assistant Professor level with an expected start date of July 1, 2014.

We seek a candidate who conducts conceptually driven research, using either empirical or theoretical approaches to study issues related to (1) ecology and evolution of disease, and/or (2) biodiversity and conservation of natural systems. Within these two areas, we seek applications from candidates whose research program fits with the research programs of the highly collaborative faculty currently in the department. Successful applicants will have a PhD, with an outstanding academic record and will be expected to build an active, externally funded and internationally recognized research program. The appointee will demonstrate potential for excellence in teaching and contributions to the education and training of undergraduate and graduate students. Salary to be commensurate with qualifications and experience.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Centre for Global Change, the Centre for Environment, and the Faculty of Forestry. The University owns a nearby field station dedicated to ecological research (the Koffler Scientific Reserve, (www.ksr.utoronto.ca). The department also has a partnership with the Ontario Ministry of Natural Resources that helps provide access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Genomic analyses are supported by the Centre for the Analysis of Genome Evolution and Function (www.cagef.utoronto.ca/).

Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

Applications are to be made online by clicking on the following link: https://utoronto.taleo.net/-careersection/10050/jobdetail.ftllang=3Den&job=-3D1300986 Applications must include a CV, statements of research and teaching interests and three representative publications. Applicants should arrange to have three confidential letters of recommendation sent directly to: Professor Locke Rowe, Chair of Search Committee, Department of Ecology and Evolutionary Biology, 25 Willcocks Street, University of Toronto, Toronto, Ontario, M5S 3B2 Canada. Electronic submission of applications in PDF or WORD format is preferred. Letters of reference may be e-mailed to chairsec.eeb@utoronto.ca or faxed to 416-946-5715 but must be followed by an original signed copy. Deadline for receipt of applications is October 23, 2013.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

helen.rodd@utoronto.ca

UToronto Mississauga EvoDevo

Assistant Professor V Cell & Developmental Biology

The University of Toronto Mississauga (UTM), Department of Biology, invites applications for a tenure-stream faculty appointment at the rank of Assistant Professor effective July 1, 2014.

We are searching for an outstanding cell/developmental biologist who uses molecular, genetic, -omics, or other advanced experimental approaches to address fundamental questions in modern developmental biology. Candidates who are able to integrate their research across multiple levels of complexity (e.g., molecular, cellular, organismal) are particularly encouraged to apply. Researchers who study genetically tractable model organisms (e.g., zebrafish, Drosophila, C. elegans, Arabidopsis, Neurospora etc.) will find strong synergies with other researchers at the university, but applicants using novel or non-traditional model species are also invited to apply.

We particularly encourage applications from individuals whose research program would complement existing departmental research strengths, which include physiology, neuroscience, genetics and behaviour, evolution, and organismal biology. Excellent opportunities exist for collaboration within the Department of Biology, with other departments at UTM (e.g., Psychology and Chemical and Physical Sciences), as well as with faculty at the St. George and Scarborough campuses of the University of Toronto.

Applicant must have a Ph.D., post-doctoral experience, an outstanding academic record, demonstrated research excellence, ability to recruit and supervise graduate students, and potential for excellence in teaching. The successful candidate will be expected to contribute to the teaching program of the department. Salary will be commensurate with qualifications and experience. The appointee will be located in the Department of Bi-

ology, University of Toronto Mississauga, and will also be a member of the tri-campus graduate Department of Cell and Systems Biology. A graduate appointment to the Department of Ecology and Evolutionary Biology would be possible in suitable cases.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Applications must include a cover letter, curriculum vitae, a statement outlining current and future research interests, a statement on teaching philosophy and experience, and three representative publications. Applications must be submitted electronically, by clicking on the link below. The University of Toronto application system can accommodate files of up to 10 MB per candidate profile. Prior to submission, please combine the entire application into one file in PDF/MS Word format. Submission guidelines can be found at: http://-uoft.me/how-to-apply . If you have any questions about this position please contact Prof. Sasa Stefanovic at biochair.utm@utoronto.ca.

Applicants should also arrange for signed letters of reference from three referees familiar with the candidate's research and teaching to be sent directly to: Dr. Sasa Stefanovic, Chair, Department of Biology, University of Toronto Mississauga, 3359 Mississauga Road North, Mississauga, ON, L5L 1C6, Canada, or by email to: biochair.utm@utoronto.ca.

Closing date for submissions is November 8, 2013.

For more information on the Department of Biology please visit: www.utm.utoronto.ca/biology. The graduate departments can be found by visiting www.csb.utoronto.ca/ and www.eeb.utoronto.ca/

Marc Johnson Assistant Professor University of Toronto - Mississauga www.evoeco.org marc.johnson@utoronto.ca

UToronto Mississauga PlantEvolutionLecturer

Lecturer - Plant Biology

The Department of Biology < http://-www.utm.utoronto.ca/biology > at the University of Toronto Mississauga < http://www.utm.utoronto.ca > invites applications for a teaching-stream appointment in the area of Plant Biology. This position will be at the rank of Lecturer, and be effective July 1, 2014.

Candidates should have a PhD in a relevant field of Biology and have the ability to teach in a variety of plant form and function courses relating to physiology, morphology, and development. Applicants should demonstrate their ability to teach such topics across plant diversity. Candidates able to bring a broad perspective and a comparative context to their teaching are particularly welcome. This could include aspects of evolution, evo/devo, ecology, cell, or molecular biology. We seek individuals who have a record of excellent teaching; who have demonstrated both interest and potential in conducting pedagogical research and development; and who are able to act as pedagogical leaders in the department. Experience in teaching large undergraduate courses is particularly welcome.

The appointment will be at UTM, which has a strong interdisciplinary commitment to teaching and research, a multicultural student body of 11,000 students, and a modern, spacious campus. Appointments at the rank of Lecturer may be renewed annually to a maximum of five years. In the fifth year of service, Lecturers shall be reviewed and a recommendation made with respect to promotion to the rank of Senior Lecturer. Success in promotion depends on achieving excellence in teaching and promise of continued professional development. Salary will be commensurate with qualifications and experience.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, and persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are invited to apply by clicking on the link below. Applications should include a cover letter, curriculum vitae, and a teaching dossier (including course outlines, evaluations, and a statement regarding teaching philosophy and innovation). Applications must be submitted electronically, by clicking on the link below. The University of Toronto application system can accommodate files of up to 10 MB per candidate profile. Prior to submission, please combine the entire application into one file in PDF/MS Word for-

mat. Submission guidelines can be found at: http://-uoft.me/how-to-apply . If you have any questions about this position please contact Prof. Sasa Stefanovic at biochair.utm@utoronto.ca.

Applicants should also arrange for signed letters of reference from three referees familiar with the candidate's pedagogical research and teaching to be sent directly to: Dr. Sasa Stefanovic, Chair, Department of Biology, University of Toronto Mississauga, by email to: biochair.utm@utoronto.ca. Closing date for submissions is January 31, 2014. For more information on the Department of Biology please visit: www.utm.utoronto.ca/biology . marc.johnson@utoronto.ca

UWisconsinLaCrosse EvolutionaryGenetics

Assistant Professor in Molecular Genetics

The Department of Biology in the College of Science and Health at the University of Wisconsin (UW) - La Crosse is expanding and invites applications for an academic year, tenure-track position at the level of assistant professor. Our new colleague will participate in teaching our core genetics course, as well as current upper level elective courses appropriate to their expertise. They may also teach in other core courses (e.g. introductory biology, organismal biology, cell biology) or develop elective courses to complement existing curriculum (such as genomics, cancer genetics, epigenetics, bioinformatics or evolution and development). We seek engaging teachers and scholars with a strong commitment to undergraduate education to serve as inspirational mentors and role models for students with diverse career goals and backgrounds.

A Ph.D. in biological science or related field is required. Prior teaching experience is preferred, with preference given to candidates with experience teaching genetics. Experience with disadvantaged students and/or diverse populations is desirable. Successful candidates will be expected to develop an externally funded research program and direct undergraduate and graduate (MS) research.

Academic year salary is competitive and commensurate with experience. Start date is August 25, 2014. UW-La Crosse is nationally renowned as a comprehensive university with demonstrated excellence in undergraduate and graduate education and research. Coupled with the beautiful surroundings of the region, UW-La Crosse offers a stellar environment for professional and personal achievement. A complete application will include a letter of application, curriculum vitae, statement of teaching philosophy (experiences and approaches), statement of research interests, unofficial undergraduate and graduate transcripts, and the names and contact information of three references (letters of recommendation may be requested later in the review process). Electronic applications must be received by October 25th, 2013 to be given priority, but applications will be accepted until the position is filled.

Note: Electronic submission of application materials is required. For additional information about this position and to apply, please visit https:/-/employment.uwlax.edu/ [direct link: https:/-/employment.uwlax.edu/applicants/jsp/shared/-frameset/Frameset.jsp?time=1379979507359] Todd Osmundson <toddo@berkeley.edu>

UWisconsin Madison Chair of Genetics

Dear colleagues,

My department, Wisconsin's Laboratory of Genetics, is currently searching for a new chair. The Lab has diverse strengths in genetics and genomics, including in evolution - http://www.genetics.wisc.edu/-EvoPopGenetics.htm - and the departmental culture is quite positive. Also, Madison is great: http:/-/www.visitmadison.com/media/rankings/ I would greatly appreciate your help in forwarding this vacancy to anyone who might be interested, and I would be glad to discuss this position with any potential candidate. Excerpts from the official posting are given below; the full version is at: http://www.ohr.wisc.edu/WebListing/Unclassified/-PVLSummary.aspx?pvl_num=76934 John Pool Assistant Professor of Genetics University of Wisconsin-Madison +1-608-265-1036 jpool@wisc.edu

Genetics/Medical Genetics Department Chair, Professor or Associate Professor

We seek an exceptional scientist and a visionary leader to serve as Chair for the combined Departments of Genetics and Medical Genetics in the College of Agricultural and Life Sciences (CALS) and the School Medicine and Public Health (SMPH) respectively, at

the University of Wisconsin-Madison. Candidates must have demonstrated a commitment to education, experience in mentoring faculty at all levels, proven effective leadership and management skills, and a promising vision for the future of genetics, medical genetics, and genomics. Candidates must be familiar with training in genetics for undergraduate, graduate, genetic counseling, medical, and other health professional students, including evidence of exemplary teaching for at least one of the above groups of students. Candidates must also have an outstanding scientific background, including a federally funded state-of-the art research program that complements the existing strengths in the Departments of Genetics and Medical Genetics, and excellent academic credentials consistent with a tenured faculty appointment at the University of Wisconsin-Madison.

Application must be received by: DECEMBER 01, 2013

Anticipated begin date: JULY 01, 2014

HOW TO APPLY: Send a letter of application or nomination, with curriculum vitae, to Richard Gourse, PhD and Elizabeth Petty, MD, Genetics and Medical Genetics Chair Search Committee, c/o Jamie Edge, 4150 HSLC, 750 Highland Avenue, Madison, WI 53705-2111, jledge@wisc.edu

jpool@wisc.edu

UWisconsin Madison EvolutionaryBiol

Tenure Track Faculty Position in Evolutionary Biology

The Department of Zoology, University of Wisconsin-Madison, invites applications for a tenure- track position at the Assistant Professor level.

We seek candidates in any area of Evolutionary Biology including, but not limited to, Evolution of Development, Evolutionary Ecology, Population Genetics, Evolutionary Genomics, or Evolutionary Physiology. The candidate's research program may focus on any taxon or domain of life, including animals, plants, protists, fungi, bacteria, or archaea.

Requirements include a Ph.D. and post-doctoral experience in evolutionary biology and demonstrated research accomplishments. Successful candidates will be expected to develop an innovative and independent extramurally funded research program, execute an effective undergraduate and graduate teaching program, build collaborative relationships in research and instructional programs, and contribute to service and outreach functions of the Department. For additional information please refer to our departmental website at: http://www.wisc.edu/zoology . HOW TO APPLY: please email a single PDF file containing a cover letter, complete curriculum vitae, statements of research and teaching interests, three representative publications, and full contact information for 3 referees to the Evolutionary Search Committee via email to: evolutionarybio@zoology.wisc.edu. Only applications submitted by email will be accepted.

Questions should be directed to: Evolutionary Biology Search Committee at evolutionarybio@zoology.wisc.edu.

Deadline for full consideration: December 1, 2013

The University of Wisconsin has an active and vibrant research community with ˜37 biologically-related departments and several biological research institutes, such as the Wisconsin Institutes for Discovery (http://-/discovery.wisc.edu/discovery). Faculty members conducting research in Evolutionary Biology across campus are listed here: http://www.evolution.wisc.edu/- . The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer, and women and underrepresented minorities are encouraged to apply. A criminal background check will be required prior to appointment. Unless confidentiality is requested in writing information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

Carol Eunmi Lee, Ph.D. Professor Center of Rapid Evolution (CORE) 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

https://mywebspace.wisc.edu/carollee/web/Lee/-Lee.html Carol Eunmi Lee <carollee@wisc.edu>

UWyoming CollectionsManager

Vertebrate Collections Manager - University of Wyoming

Essential Duties The University of Wyoming seeks a Collections Manager to oversee the Vertebrate Collections housed in the Robert and Carol Berry Biodiversity Conservation Center. Duties include, but are not limited to: coordinating activities for the center follow-

ing all federal, state and center policies; collecting and preparing specimens; obtaining and maintaining necessary collecting permits and filing permit reports; training and supervising students and temporary employees in specimen preparation and curatorial methods; overseeing data cataloging; processing specimen loans and exchanges; assisting in collection-related grant proposal preparation; contributing to Berry Center education and outreach programs. Opportunities are possible for research in collaboration with Berry Center staff.

Minimum Qualifications A Master's degree in biology or a related natural science field from an accredited university PLUS experience working with vertebrate collections OR an equivalent combination of education and experience is required.

Knowledgeable of and experienced in vertebrate curatorial techniques.

Strong organizational, interpersonal, written and verbal communication skills.

Preferred Qualifications A PhD in biology or a related natural science field from an accredited university.

Experience organizing and leading museum expeditions.

Experience with Arctos.

Required Materials Complete online application (visit https://jobs.uwyo.edu - search for job ID: 5973), resume/CV, a letter of application outlining vertebrate curatorial experience and contact information for three work-related references.

Deadline Review of applications will begin on 23 October 2013, which means that applications must be submitted by midnight on 22 October 2013.

Please contact Matt Carling, mcarling [at] uwyo.edu with any questions.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com 307.766.6169 mcarling@uwyo.edu

mcarling@uwyo.edu

UZurich Bioinformatician

A bioinformatician position is available at the Institute of Anthropology, University Zurich (Switzerland) in the lab of Michael Griesser to investigate the factors which promote family living in birds. The post is available from 1 November 2013 and is for a fixed term of 3 months to assist in bioinformatical analyses. The salary will be according to the salary brackets of the Swiss National Research Council.

I am looking for a highly motivated bioinformatician to work on a large-scale comparative data set to understand the role of ecology and life-history for the evolution of family living in birds. We will use the software BayesTraits to analyse our data.

The Anthropological Institute & Museum at the University Zurich offers a stimulating, international work environment with top researchers working in related, relevant topics (cooperative breeding and social evolution in primates, birds and dolphins). The working language at the Institute is English.

Required qualifications: 1) Strong experience with bioinformatical analyses, among others MCMC based analyses 2) Experience from working on a cluster and Linux systems 3) Previous knowledge of phylogenetic comparative analyses is a plus 4) Knowledge of the software BayesTraits would be helpful 5) Used to work together with researchers in biology or a similar field

Applications received before 1st October 2013 will be given full consideration

If you wish to apply, send a motivation letter, CV, publication list, three contacts for references and a statement of research interests not exceeding 2 pages (as a single PDF) to: michael.griesser@uzh.ch <mailto:michael.griesser@uzh.ch>

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Michael Griesser Anthropological Institute & Museum University of Zurich - Campus Irchel Winterthurerstrasse 190 8057 Zürich Switzerland

http://www.aim.uzh.ch/Research/birdfamilies/-mgriesser.html http://www.prodoc-evolcoop.uzh.ch/-index.html michael.griesser@uzh.ch

VanderbiltU EvolutionaryBiology

FACULTY POSITION IN BIOLOGICAL SCIENCES AT VANDERBILT UNIVERSITY

The Department of Biological Sciences at Vanderbilt University seeks candidates to fill a tenure-

track, assistant professor faculty position. We desire candidates whose research complements existing areas of strength within the department (http://-as.vanderbilt.edu/biosci). The scope of the search will reflect the full breadth of the department; we are particularly interested in candidates working at the intersection of development, evolution and molecular genetics. The central criteria for the position are excellence in research and the ability to teach undergraduate and graduate students with a high level of effectiveness.

Women and under-represented minority candidates are especially encouraged to apply. Applicants should send a single PDF containing a letter of application, curriculum vitae, statement of current and future research interests, and evidence of teaching effectiveness to nikki.moore@vanderbilt.edu. Applicants should arrange for three letters of recommendation to be sent to the same address. Review of applicants will begin November 1, 2013, and will continue until the position has been filled. Vanderbilt University is an Affirmative Action / Equal Opportunity Employer.

Antonis Rokas Chair of the Search Committee

Antonis Rokas Associate Professor & Cornelius Vanderbilt Chair in Biological Sciences Department of Biological Sciences Vanderbilt University Nashville, TN 37235 Email: antonis.rokas@Vanderbilt.Edu Tel: +1-615-936-3892 http://as.vanderbilt.edu/rokaslab/ antonis.rokas@Vanderbilt.Edu

WashingtonU EvolutionaryBiology

EVOLUTION ASSISTANT PROFESSOR

The Department of Biology at Washington University in St. Louis is pleased to invite applications for a faculty position in Evolution at the Assistant Professor level. We will consider candidates from any area of evolutionary biology including but not restricted to behavioral, ecological, environmental, genetic, genomic, molecular, or systematic evolution.

Qualifications include a Ph.D. degree and strong research, mentoring, and teaching credentials. Competitive start-up funding, laboratory development resources and ancillary support commensurate with the candidate's needs and resource availability accompany this position.

The successful candidate will contribute to research, mentoring, and teaching at graduate and undergraduate levels. She or he will develop an exciting, externally funded, and internationally recognized research program. Duties include classroom teaching, student advising, research and writing for publication, and university service. We offer a collaborative, intellectually stimulating, and supportive environment in which a new professor can thrive. We are strongly committed to openness and diversity and have a very welcoming climate that spans biological research areas. For further information on the Department of Biology, see wubio.wustl.edu. < http://www.wubio.wustl.edu/ >

To apply, please collate the following into a single pdf file: cover letter, curriculum vitae, and no more than four pages total on research, mentoring, and teaching. Please send pdfs of 3 publications and arrange to have 3 letters of reference sent in support of your application. All application information should be sent electronically to: evolution.search@biology2.wustl.edu. Joan Strassmann (strassmann@wustl.edu) is chair of the search committee.

Please see to it that we have your application and supporting material by 15 October 2013, though we may accept later material as needed to achieve a successful outcome to this search.

Washington University is committed to excellence through diversity, and we particularly encourage applications from persons from underrepresented groups. Washington University is an Affirmative Action Employer.

Joan E. Strassmann Professor of Biology

Department of Biology Washington University in St. Louis One Brookings Drive Campus Box 1137 St. Louis MO 63130

phone: (314) 935-3527 fax: (314) 935-4432 cell: (832) 978-5961 skype: strassm e-mail strassmann@wustl.edu http://strassmannandquellerlab.wordpress.com/
Blogs: http://sociobiology.wordpress.com/-http://slowbirding.wordpress.com/ http:/-/goodbyehouston.wordpress.com/ Twitter: @JoanStrassmann

Joan Strassmann <strassmann@wustl.edu>

Other

Anolis sagrei images

Dear fellow scientists,

I am a Harvard University student reading for a MSc in Evolutionary Biology. I am currently working on my Master's thesis in the Losos Lab (http:/-/www.oeb.harvard.edu/faculty/losos/) investigating morphometric diversity and biogeography of the Brown Anole (*Anolis sagrei) *populations within their natural range (Cuba, bahamas, Eastern North and Central America) using museum specimens. In order to enrich the study, we require photographs of *A. sagrei* for which locations and approximate dates are known. If you have any photographs that could be useful to the study, please direct them to:

veronica.gomez-pourroy@evobio.eu

Your help will be acknowledged in the thesis and in any publications that may result from the study. Feel free to distribute this message to whoever could help us out, and thank you very much in advance for your help!!

Best wishes,

Verónica Gómez-Pourroy

qmul.academia.edu/vgpourroy

veronica.gomez-pourroy@evobio.eu

ESEB Outreach Fund Deadline Sep15

ESEB Outreach Fund

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Fund for projects that promote evolution-related activities. With a total annual budget of 15000 Euro, the goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, websites) intended for a general audience, public outreach seminars, public exhibitions, etc.

The application form can be found on www.eseb.org (click on the "Outreach Fund" link). Applications will be accepted twice yearly (deadlines March 15, September 15) and should be submitted by email to Ute Friedrich (office@eseb.org; Subject: Outreach).

Ute Friedrich ESEB Office Manager Le Biophore University of Lausanne CH-1015 Lausanne Switzerland Email:office@eseb.org

European Society for Evolutionary Biology

www.eseb.org office@eseb.org

EvoDevo ResearchFunding

RESEARCH FUNDING OPPORTUNITY:

Dear Colleague,

This email is to remind you that the upcoming deadline for research exchange grants from the Evo-Devo-Eco Network (EDEN) is October 31, 2013. EDEN is a program funded by the National Science Foundation Research Coordination (http://edenrcn.com/).

One of EDEN's major goals is to enable graduate students, postdoctoral fellows, and faculty to undertake research exchanges in the field of Evo-Devo-Eco, in order to develop or share techniques, protocols and tools for use with emerging model systems.

Please note that the eligibility for EDEN funding is as follows:

Researchers based anywhere in the world can apply for funding to visit labs in the US.

Researchers based in the US are eligible for funding to visit labs anywhere in the world.

This fall EDEN will award approximately five research exchanges to be held in 2013-2014. Each exchange will consist of an award of up to $3,000 per researcher toward travel, lodging and subsistence costs. You can find out more about this program at http://edenrcn.com/-funding/index.html. If you know of outstanding lab personnel who would be interested, please forward this announcement to them.

You can read more about EDEN's activities and opportunities at http://www.edenrcn.com, where you will be able to obtain protocols for evo-devo-eco work developed with EDEN funding.

Please feel free to email edenrcn@fas.harvard.edu with questions about the program, and forward this email to colleagues who you think would be interested in EDEN.

Best wishes,

Cassandra Extavour

edenrcn@fas.harvard.edu

GeneticMarker companies

Dear EvolDir,

I am planning to have primers developed from a commercial/university lab. Specifically, I'm looking for about 10 microsatellites for one mammal species. I've received quotes from *Savannah River Ecology Lab (USA), Genetic Marker Services (England), Allgenetics (Spain), *and* Armalil (USA)*. The prices and level of services offered are similar, with the exception of Genetic Marker Services which uses a cloning method and is cheaper.

Before I make a final decision, I wanted to ask: does anyone else have any experience with these companies? If so, are they reliable in terms of product quality, timeline, etc.? Any feedback is appreciated!

Thanks!

katecleary98@gmail.com

Mutation-Driven Evolution

Dear evoldir community–

I'm writing a review of a new book, Nei's _Mutation-Driven Evolution_, and would like to connect with others who have read it, in order to get some input (possibly including comments on a draft review, or some kind of electronic discussion). If you are interested, please send me your comments on the book, or your contact information, or both. Regards,

Arlin

Arlin Stoltzfus (arlin@umd.edu) Fellow, IBBR; Adj. Assoc. Prof., UMCP; Research Biologist, NIST IBBR, 9600 Gudelsky Drive, Rockville, MD, 20850 tel: 240 314 6208; web: www.molevol.org Arlin Stoltzfus <arlin@umd.edu>

NESCentEOL-BHL CallProposals

Call for proposals for NESCent-EOL-BHL Research Sprint

Apologies for cross-posting.

The National Evolutionary Synthesis Center (NESCent, http://nescent.org), Encyclopedia of Life (EOL, http://eol.org), and Biodiversity Heritage Library (BHL, http://www.biodiversitylibrary.org) announce a call for proposals for a research sprint event to take place at NESCent in February 2014.

EOL currently has text and/or multimedia information on more than 1.3 million taxa from more than 250 content providers. Structured data (species interactions, numeric data, and controlled vocabulary data) are coming soon. BHL has digitized more than 41 million pages of legacy biodiversity literature. During the research sprint, biologists will use EOL and BHL to address outstanding and novel questions about the ecology and evolution of biodiversity. Successful applicants will be matched with an informatician, in two-person teams, and receive support to travel to and work on-site at the National Evolutionary Synthesis Center for four days.

For more information on the event and to get proposal instructions, please visit http://eol.org/info/nescent_EOL_BHL . Applications must be submitted no later than 15 November 2013.

Questions regarding the NESCent-EOL-BHL Research Sprint should be directed to Craig McClain (cmcclain@nescent.org) or Cynthia Parr (parrc@si.edu)

Cyndy Parr

Cynthia Sims Parr Chief Scientist and Director, Species Pages Group Encyclopedia of Life http://eol.org Office: 202.633.9513, Fax: 202.633.8742 Room W118

Mailing address: National Museum of Natural History Smithsonian Institution P.O. Box 37012, MRC 106 Washington, DC 20013-7012

Cynthia Parr <parrc@si.edu>

NSF WatermanAward EvolutionaryProcessesCluster

2014 Alan T. Waterman Award

˜ The National Science Foundation's Highest Honor ˜

Call for Nominations < http://www.nsf.gov/od/waterman/nsf_watermanaward_2014callfornominations_130730.pdf > (Deadline: October 25, 2013)

The National Science Foundation is pleased to accept nominations for the 2014 Alan T. Waterman Award. Each year, the Foundation bestows the Waterman Award to recognize the talent, creativity, and influence of a singular young researcher. The award consists of a $1,000,000 grant and a trip for two to Washington, DC, to receive the award. For details about the Waterman Award's history, the nomination procedure and the selection criteria please visit http://www.nsf.gov/od/waterman/waterman.jsp . Nominees are accepted from any field of science or engineering that NSF supports. Nominations must be submitted electronically using NSF's FastLane system at https://www.fastlane.nsf.gov/honawards/index.jsp .Please direct all inquiries about the award and the nomination procedures to Mayra Montrose (mmontros@nsf.gov).

Garth M. Spellman, PhD Program Director Room 640.08, Stafford I Evolutionary Processes Cluster Division of Environmental Biology National Science Foundation

Email: gspellma@nsf.gov Tel: 703-292-8610 Fax: 703-292-9064

"Spellman,Garth" <GSPELLMA@nsf.gov>

NewPhytologist BackIssues

200 Volumes of New Phytologist from 1902 - 2013.

http://newphytologist.org/200VSI To mark the publication of the 200th volume of New Phytologist we have grouped together selected papers from the journal's archive into a Virtual Special Issue. The articles

typify the enduring nature of the research published in New Phytologist and range from Sir Arthur Tansley's 1904 essay on 'The Problems with Ecology' to more recent papers on climate change and plant mortality. All of the papers included in this VSI are freely available without subscription.

http://newphytologist.org/200VSI Dr MICHAEL PANAGOPULOS Development Coordinator, New Phytologist

New Phytologist Central Office, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK Tel: + 44 1524 592124 Fax: + 44 1524 594696 Email: m.panagopulos@lancaster.ac.uk Website: www.newphytologist.org Twitter: @NewPhyt Facebook: fb.com/NewPhytologist

New! 2012 Impact factor 6.736

Calling all early career scientists! 2014 Tansley Medal deadline 15 Dec 2013. http://newphytologist.org/-tansleymedal New Phytologist Symposia 2013-2014 32nd NPS: Plant interactions with other organisms 33rd NPS: Networks of power and influence 34th NPS: Systems biology and ecology of CAM plants http://www.newphytologist.org/symposia m.panagopulos@lancaster.ac.uk

Parrots DNA samples

Dear members,

I'm starting a research involving molecular genetics of parrots. However, I'm not sure about the best way of preserving the biological samples and, also, witch is the best biological sample to collect. Since the animals will be trapped and released, I was thinking about using blood samples and collect them with vacutainer tubes. In this case, is there any difference about using heparin or EDTA as anticoagulant? Can I store this material in -20 degree freezer? How long do the tubes can be stored? I also thought about collecting feathers. But I'm not sure about the best way for proceeding with DNA isolation in this case.

I'll appreciate any help.

Thanks in advance.

Fábio Britto

Â Fábio B. Britto Universidade Federal do Piauí (UFPI) - Federal University of Piaui Campus Ministro Petrônio PortellaÂ Centro de Ciências da Natureza - Depto. de Biologia Bairro IningaTeresina - PIÂ CEP: 64049-550Brasil (Brazil)

Fabio Britto <fbbritto@yahoo.com>

Polyrhachis ant samples

Dear Colleagues,

As a postdoc in Dr. Corrie Moreau's lab at the Field Museum of Natural History in Chicago, IL, USA, I study the phylogeny, evolution and biogeography of the spiny ant genus Polyrhachis with molecular methods. I will especially focus on the following questions: How are the subgenera related to each other? What is the biogeographic history and potential origin of the genus? What are the patterns of morphological evolution in this diverse genus?

To answer these questions samples of as many Polyrhachis species as possible from various parts of their distribuition range from Africa to Souteast Asia and Australia are necessary.

As these are are large ants only a few worker ants of each Polyrhachis collection are necessary and will be helpful for this study.

If you have any Polyrhachis specimens, and you would be willing to donate some for my project, please email me. Any and all samples, regardless of the preservation method, would be greatly appreciated. However, if you will go collecting in the future and have a chance to collect spiny ants that you would be willing to contribute, preservation in >95% ethanol would be the best. Please feel free to contact me or Corrie Moreau with questions.

Cheers, Dirk Mezger dmezger@fieldmuseum.org

Corrie Saux Moreau, Ph.D. Assistant Curator - Insects Integrative Research Center Department of Science and Education Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605 USA Office: (312) 665-7743 Fax: (312) 665-7754 Email: cmoreau@fieldmuseum.org http://-/fieldmuseum.org/users/corrie-moreau *** Visit our LAB WEBSITE: www.moreaulab.org *** *** Visit our Field Museum Women in Science (FMWIS) website: http://fieldmuseum.org/explore/field-museum-women-science ***

cmoreau@fieldmuseum.org

RohlfMedal Morphometrics

Award of 2013 Rohlf Medal for Excellence in Morphometrics

On October 24th, the Rohlf Medal will be awarded at Stony Brook University to Prof. Paul O'Higgins. Prof. O'Higgins is the Chair of Anatomy at the University of York and head of the Centre for Anatomical and Human Sciences, Hull York Medical School, England. The Rohlf Medal is awarded every two years and was established in 2006 by the family and friends of Distinguished Prof. F. James Rohlf, Stony Brook University, to recognize excellence in the development of morphometric methods and their application to shape analysis in the biomedical sciences.

This award recognizes Prof. O'Higgins' contributions to paleoanthropology through his long-standing interest in the quantification of biological form to investigate animal function and evolution. He has been an innovator in methods that merge cutting-edge technologies of imaging and biomechanics with statistical methods of shape analysis. He is currently exploring the use of computed tomography and bioimaging to investigate the effects of stress on the shape of anatomical structures. His empirical research explores links between variation in skeletal structure, evolutionary history, function, and development. Prof. O'Higgins has also devoted considerable effort to developing software that makes these approaches accessible to other investigators. Throughout his career, he has trained numerous scholars in quantitative morphology, including the latest morphometric approaches.

The Rohlf Medal will be awarded at a lecture given by Prof. O'Higgins at 4:00 pm on October 24th in Lecture Hall 2 in the Wang Center at Stony Brook University. The title of his lecture is "The Measure of Things: Pattern, Process and Morphometry." The lecture is part of the Provost Lecture Series at Stony Brook University and is co-sponsored by the Rohlf Medal Fund and the Department of Ecology and Evolution.

Michael A. Bell, Professor Department of Ecology and Evolution Stony Brook University Stony Brook, NY 11794-5245, USA Office Phone: 1-631-632-8574 http://life.bio.sunysb.edu/ee/belllab/ mabell@life.bio.sunysb.edu

SIMMAP question

Dear EvolDir users,

I need some help from people who have some experience with a program called SIMMAP. I have two questions. We want to use SIMMAP to estimate ancestral sequences.

1.) I am currently supervising a Bachelor degree thesis in biomathematics. My student was supposed to write a program using the output of SIMMAP for some further analyses. She successfully wrote that program (we tested it with some SIMMAP test files) and now wants to analyze some real data which were given to us by a biology professor. So the thing is that she needs the SIMMAP output before she can apply her own program. However, we now struggle to generate the XML file, which is needed before SIMMAP can even be started. Here is the problem as my student explained it to me:

The student tried to create the xml-file with a MrBayes output. Nex2Xml failed to create the xml-file and we are not quite sure what the cause of this is, as the FAQ states that MrBayes output is just what Nex2Xml wants.

The thing is that NOTHING happened. So first we thought that the files are too big and that maybe it would take some time until the XML file would be generated. After 20 minutes we stopped the process and tried something else: We deleted all trees in the tree file except for one (and did the same thing for the parameter file accordingly). It still did not work. We were not sure if the program was still doing something or not, we double checked and saw that no file had been generated.

However, if we run everything identically but leave away the parameter file, everything works as supposed - we get a nice XML file and everything is fine. First I really thought that maybe the parameter file is too big, but after we shortened it to the 1-tree-case, this cannot be the case. So we do not know how to proceed, which means my student currently cannot finish her thesis. We need to consider the parameters, too, otherwise our analysis does not make any sense.

2.) Furthermore it would be interesting to know if it is possible to insert two files as a treefile as the biologist has actually performed two runs with MrBayes and

wants both analyzed simultaneously.

Any help would be appreciated as this delay is really bothering my student.

Kind regards, Mareike Fischer (Greifswald University, Germany)

Mareike Fischer <email@mareikefischer.de>

Software 4273pi

We are happy to announce 4273pi version 1.1:

http://eggg.st-andrews.ac.uk/4273pi 4273pi (http://-dx.doi.org/10.1186/1471-2105-14-243) is for those wishing to teach, learn or use bioinformatics on the low-cost Raspberry Pi computer. 4273pi is a freely available, customised distribution of Raspbian GNU/Linux for the Raspberry Pi.

4273pi includes 4273pi Bioinformatics for Biologists, an Open Access bioinformatics course. This is based on a final-year undergraduate module at the University of St Andrews.

Coverage of particular interest to Evoldir will include: delimiting gene/protein families; multiple alignment and phylogeny; gene family evolution; looking at species differences; and function and evolution of enzymes.

Compared to the previous version, 4273pi version 1.1 is based on a more recent Raspbian; will work on SD cards that are nominally 32 GB but actually slightly smaller; and includes some bug fixes.

- Daniel

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

db60@st-andrews.ac.uk

Software DAMBE update

Dear Colleagues,

I have just uploaded a new version of DAMBE. It added two functions requested by users and fixed a bug in using your own codon table of highly expressed genes for computing CAI.

1. Print big trees over many pages. Originally, DAMBE has a function to break a tree into grids with each grid corresponding to one regular page. It has two problems. First, it is quite difficult to trim the edges of each page and piece them together into a big tree. Second, it does not allow one to print to PDF format so that one can see what the individual pages look like before sending to printer. The new function will simply limit the tree width to one page so one only needs to stick the pages together vertically. Also, if the PDF driver is already available in your computer, you can choose to print to PDF. If you have produced a very big tree from other programs and want to print in DAMBE, simply copy the tree in Newick format and click 'Phylogenetics|Paste tree in tree panel'.

2. I have implemented the CVTree method by Prof. B. Hao and his colleagues in China (Nucl. Acids Res, 2009). I did this because the CVTree web server does not seem to take any user files to perform an analysis and because the link to the standalone program is broken, i.e.,I can't find any functional CVTree software available. The method is useful for species (especially for viruses) where a good set of aligned sequences is often difficult to obtain. The input is a set of fasta files each containing protein sequences of a species (e.g., the .faa files one can retrieve from GenBank), e.g., EcoliK12.faa, BacillusSubtilis.faa, MycoplasmaGenetalium.faa, etc. You put all these files in one directory and click 'Phylogenetics|CVTree' to browse to the directory containing these .faa files. Select them all and click 'Open'. A tree will be displayed (You may click 'Tree|Ignore branch lengths' to get a better view of the topology). It will take some time if you include more than one h undred bacterial species each with thousands of protein sequences. The simply way to start is to retrieve some viral .faa files from GenBank to try out the function.

The method works surprisingly well. I retrieved the .faa files from E. coli and a few related species, broke each .faa files into first half and the last half, named the resulting file Sp1A.faa and Sp1B.faa, Sp2A.faa, Sp2B.faa, and so on, and found the two halves got clustered together. The possible biological foundation for this is that each species contain some unique ancient peptides that are scattered throughout the protein sequences and serve as the proteomic fingerprint of the species. This is of course just my speculation. I will look into it when I have time (I am NOT trying to stake out a territory. Anyone is welcome to investigate the issue).

3. I have fixed a bug in the function that allows a user-generated codon usage table of highly expressed

genes for computing CAI using DAMBE. You can use DAMBE or any other program to generate a codon usage table in text format that includes three essential columns: Codon, AA, and CodonFrequency. The columns should have either no column header (i.e., 64 rows of codon frequency data start at the first row) or have the column headers in the first row (i.e., 64 rows of codon frequency data starts in the second row). The simplest way to generate a codon usage table of highly expressed genes is to use coding sequences for ribosomal proteins (which are typically highly expressed.)

I have also fixed a number of minor bugs. Please download the new version at

http://dambe.bio.uottawa.ca/dambe.asp 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/bio/-professor_details.html?en/31

Software R marmap

<apologies for cross-posting>

Dear listers,

We are happy to announce the release of marmap0.6, a free and open-source R package for importing, plotting and analyzing bathymetric and topographic data.

http://www.plosone.org/article/-info%3Adoi%2F10.1371%2Fjournal.pone.0073051 http://cran.r-project.org/web/packages/marmap/-index.html One of the primary goal of the package is to allow the production of publication-ready sampling maps for ecologists, through easing automatic retrieval of xyz data from the NOAA. Functions to query data (bathymetry, sampling information) are available interactively by clicking on marmap maps. Bathymetric and topographic data can also be used to calculate projected surface areas within specified depth/altitude intervals, and constrain the calculation of realistic shortest path distances. Such information can be used in molecular ecology, for example, to evaluate genetic isolation by distance in a spatially-explicit framework.

We are still working on adding functions to marmap, for example to automatically space pie charts on maps, plot EEZ, 12 nm limits, or ICES regions, and we welcome ideas on how to improve marmap (bugs, new functions, etc)!

Best regards, Eric Pante and Benoit Simon-Bouhet

pante.eric@gmail.com

Software diveRsity

Dear Colleagues,

We are pleased to introduce the new R package and web application, diveRsity, for general population genetics analyses. While the package has been designed with beginners to R programming in mind, it can also be used through a web based interface thus removing the need to use R at all. This new application is also particularly useful for those who require the power and flexibility of a scripting language (e.g. during simulation/approximate Bayesian computation studies).

—— Population genetics analyses ——

Accepting the ubiquitous âgenepop' file format as input, diveRsity allows users to calculate a plethora of descriptive population genetics parameters such as:

1) Weir & Cockerham's (1984) Theta (locus, global & pairwise, as well as 95% confidence intervals for each)

2) Nei & Chesser's (1983) G_{st} (locus, global & pairwise, as well as 95% confidence intervals for each)

3) Hedrick's (2005) G'_{st} (locus, global & pairwise, as well as 95% confidence intervals for each)

4) Jost's (2008) D (locus, global & pairwise, as well as 95% confidence intervals for each)

5) Chi-square tests for sample heterogeneity

6) Basic population parameters such as HWE, observed heterozygosity, expected heterozygosity and allelic richness (resample method).

7) Skrbinsek et al. (2012) standardized diversity ratios (with simplified input using a single âgenepop' file)

8) Rosenberg et al. (2003) Locus informativeness for the inference of ancestry (I_{n})

One of the major benefits of using diveRsity over similar applications is the convenience of its simplified result output structure, as most functions in the package calculate multiple statistics at once. For example, to generate table 1, multiple software packages are typically required, while, with diveRsity, a single command

will write this exact table structure to an excel/text file.

Table 1. Basic stats returned from diveRsity. N = number of individuals genotyped per locus per population sample, A = number of alleles per locus per population sample, % = percentage of total alleles per locus per population sample, Ar = Allelic richness, Ho = observed heterozygosity, He = expected heterozygosity, HWE = p-value from chi-square test for goodness of fit to HWE

—– pop1, Locus1 Locus2 Locus3 Locus4 Locus5 —– N 46 47 47 47 45 A 4 3 11 6 19 % 57.14 100 61.11 66.67 50 Ar 3.6 2.93 10.37 5.41 17.07 Ho 0.67 0.57 0.87 0.64 0.76 He 0.66 0.53 0.83 0.67 0.92 HWE 0.6321 0.794 0.7286 0.8701 0.012 —– pop2, Locus1 Locus2 Locus3 Locus4 Locus5 —– N 40 42 42 42 42 A 5 2 13 7 20 % 71.43 66.67 72.22 77.78 52.63 Ar 4.83 2 10.84 5.82 17.29 Ho 0.65 0.48 0.74 0.52 0.9 He 0.66 0.5 0.79 0.71 0.92 HWE 0.534 0.7642 0.9999 0.5327 0.9249 —– pop3, Locus1 Locus2 Locus3 Locus4 Locus5 —– N 41 41 41 40 39 A 5 2 10 4 14 % 71.43 66.67 55.56 44.44 36.84 Ar 4.63 2 8.84 12.42 Ho 0.73 0.39 0.71 0.7 0.87 He 0.71 0.5 0.8 0.7 0.87 HWE 0 0.1604 0.9874 0.9841 0.9929

Another major strength of diveRsity, in comparison to other similar packages, is that it is also capable of estimating 95% confidence intervals for the various parameters listed above. These confidence intervals can be calculated at locus, global and pairwise levels. Most currently available software packages avoid calculating confidence intervals, especially for pairwise comparisons, due to the intense computation required, and instead, base the statistical significance of results the less informative and more problematic, p-value; diveRsity uses parallel computation to make the estimation of 95% C.I. a relatively trivial task, especially on machines with many CPU cores.

There are also various useful data visualisation tools for exploratory analysis available with the package, including 'heat map' plots of large pairwise differentiation matrices, with optional 'tooltip' functionality for simple exploration of genetic patterns among a large number of population samples. A simple 'ad hoc' visual method is also provided to assess the presence of locus polymorphism vs F_{st} issues, as discussed by Hedrick, (2005) & Jost, (2008), among others.

—– Microsatellite multiplex development —– diveRsity contains a function, âmicroPlexer', which allows users to develop microsatellite multiplexes based on locus size ranges and fluorophore technology. The function is capable of creating âhigh-density' or âbalanced-density' multiplex groups, depending on experimental requirements. A stand-alone version of microplexer is available at:

http://glimmer.rstudio.com/kkeenan/microPlexer/
Information on the use of microplexer can be found in the package documentation (see below).

—– How to access the software and user manual —–

The web app version of diveRsity can be found at:

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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

SouthAfrica Volunteers SmallMammalEvolution

4 volunteers needed from January 2014 onwards

as field assistants for the project:

Evolution and Socio-Ecology of small Mammals in the Succulent Karoo of South Africa

Opportunity: This is a great opportunity for anybody who wants to get more experience in field work relating to eco-physiology, animal behavior, evolution, and ecology before starting an MSc or PhD project.

Project: We study the evolutionary and ecological reasons as well as physiological mechanisms of group living, paternal care, communal nesting and social flexibility in the striped mouse. One focus is on the adaptation to droughts, combining physiological, behavioral, ecological and evolutionary research. As this species is diurnal and the habitat is open, direct behavioral observations in the field are possible.

What kind of people are needed? Biology/zoology/veterinary students are preferred as candidates. Applicants must have an interest in working in the field and with animals. Hard working conditions will await applicants, as the study species gets up with sunrise (between 5 and 6 o' clock), and stops its activity with dusk (19 o' clock). Work during nights might also be necessary. Work in the field will be done for 5 days a week. Applicants must be able to manage extreme temperatures (below 0 at night in winter, sometimes over 40 C during summer days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small social group.

Work of field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field. Volunteers will also see how blood samples are collected for physiological measurements. Volunteers are expected to help with maintenance of the research station (water pump, solar power, etc.).

Confirmation letter: Students get a letter of confirmation about their work and can prepare a report of their own small project to get credit points from their university for their bachelor or masters studies.

Costs: Students have to arrange their transport to the field site themselves. Per month, an amount of Rand 1300 (around 180 US$, 110 Euro) must be paid for accommodation at the research station. Students must buy their own food etc in Springbok (costs of about R 3000, approx. 360 US$ or 250 Euro/month). Including extras (going out for dinner; shopping), you should expect costs of about 600 US$, 450 Euros per month. Students get an invitation letter which they can use to apply for funding in their home country.

Place: The field site is in the Goegap Nature Reserve near Springbok in the North-West of South Africa. The vegetation consists of Succulent Karoo, which has been recognized as one of 25 hotspots of biodiversity. It is a desert to semi-desert with rain mainly in winter (June to September).

When and how long: At the moment we are looking for 4 volunteers starting in December 2013 or January 2014. Volunteers are expected to stay at least three months, but longer periods of up to 6months are preferred.

How to apply? Send a short motivation letter stating why and for which period you are interested and your CV via email to succulent.karooo.research.station@kabelbw.de.

More information under

http://stripedmouse.com/site1_3_5.htm http://-www.youtube.com/watch?v=w6rvF5XrVn0&list=-UUd12oFYqs5OobiiKMhDnFtw&ind ex=1

Contact via e-mail: succulent.karoo.research.station@kabelbw.de

Succulent Karoo Research Station

a registered South African non-profit organization

Dr. Carsten Schradin (Director)

South Africa

WORKING AS A FIELD ASSISTANT IN GOEGAP NATURE RESERVE

A report by Romy Höppli, student at the University of Zurich, who staid in Goegap June to August 2008

Blue skies without a single cloud for six weeks rocky mountains with little vegetation yellow, orange and pink fields of flowers in whatever direction you look small mammals, lizards and birds in our front yard and Mountain Zebras, Springbok and Ostrich right next door...

This was my time at the Succulent Karoo Research Station in Goegap Nature Reserve in South Africa! During six weeks from the beginning of July until the middle of August I've been living here, studying mice, experiencing nature like never before and being part of a small community where there was always something to laugh and joke about!

After arriving in Goegap, right the next morning my scientific adventure in South Africa began: Setting and checking traps, nest observations and radio-tracking were our daily routine. While I got bitten by the mice quite often in the beginning and my right middle finger was scarred all over, I improved quickly shaking the mice out of the traps, weighing them and checking the number of the ear tag. Other duties like cleaning the cages of

— / —

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

Thermocycler feedback

Hi All,

We just received an equipment grant to purchase a new multi-unit thermocycler. We have quotes from three companies and are trying to make a decision on which to purchase. If you have experience with machines below, I would be interested to find out how they have performed.

Thanks for your time.

Lisette (lwaits@uidaho.edu)

Eppendorf: Mastercycler Nexus Gradient (2) Mastercycler Nexus Eco (4)

Techne: Prime Elite Gradient Thermocycler (2) Prime Elite Gradient Satellite Thermocycler (4)

BioRad: C1000 TOUCH CYCLER (2) S1000 CYCLER

(4)

"Waits, Lisette" <lwaits@uidaho.edu>

Thermocycler feedback answers

Thanks to everyone who answered my questions about 3 models of thermocyclers. Multiple people asked me to post the answers which are shown below:

Lisette

Question: We just received an equipment grant to purchase a new multi-unit thermocycler. We have quotes from three companies and are trying to make a decision on which to purchase. If you have experience with machines below, I would be interested to find out how they have performed.

Eppendorf: Mastercycler Nexus Gradient (2) Mastercycler Nexus Eco (4)

Techne: Prime Elite Gradient Thermocycler (2) Prime Elite Gradient Satellite Thermocycler (4)

BioRad: C1000 TOUCH CYCLER (2) S1000 CYCLER (4) Answers:

1) I purchased a Techne thermocycler two years ago and it broke down twice already (I think is the block). Their guaranty is great, you send it back and they fix it for free, but it is really annoying to have to send it back every 10 months or so. I wouldn't go with them again.

2) I don't have the Techne you have quoted but got a cheaper one a couple of years ago after having MJs for years. It was hard to program and not at all intuitive to me. The students don't like to use it. We got a C1000 BioRad this year - nice machine. I bought both the dual 48 blocks and the 96 - switching them out is a breeze, programming is fun, easy, nice. I also have experience with Eppendorfs (not the ones you mention) and they have also been very easy to use. Good luck - of that list I would pick the BioRad and stay away from Techne...

3) I recently bought 2 bio rad c1000s and they are AWESOME. Pcrs that used to barely work on other machines in my old labs seem to pick up for some reason on these guys and I very rarely have well edge evaporation on plates. We had a few problems but they were tied to old firmware and their support was helpful and the upgrade cleared things up. Hopefully they will be long term lasting units. I've only had my position here for a few years but all signs suggest they should be good.

4) We have both the Eppendorf Nexus Mastercycler Gradient and the BioRad C1000. I'm not a big fan of the Eppendorf one. The programming is not intuitive (we often have to break out the manual) and we get some evaporation with certain plate/seal combos. LOVE the C1000. The touch screen makes it very easy to program and it's very flexible in terms of plates/seals/mats (i.e., no evaporation).

5) We've had a single-block C1000 (pre-Touch version) for more than two years and we love it. There was an issue with the mechanics of the lid, and when I complained about it Bio-Rad happily upgraded us to the newer version of the lid assembly and re-QC'd the whole machine, etc., all at their expense (including overnight shipping in both directions). I think they're a class act.

6) We're using a C1000, and thus far, I'm pleasantly impressed with them. It does what we need to do, and is pretty easy to set up and program. I like it better than the old ABI one I've used, and it's much better than the MBS we used to have from thermofisher. We've only been running them for a month now, so I can't comment on long- term stability.

Lisette Waits, PHD Professor Fish and Wildlife Sciences Laboratory for Ecological, Evolutionary and Conservation Genetics University of Idaho 875 Perimeter Drive MS 1136 Moscow ID 83844-1136 Phone: (208) 885 7823 lwaits@uidaho.edu http://www.uidaho.edu/cnr/fishwild/lisettewaits "Waits, Lisette" <lwaits@uidaho.edu>

Treefinder

Dear all,

I would like to announce that I currently have no new Treefinder version to offer, and that there is nothing new to download from my website:

www.treefinder.de If I had made a new Treefinder version, there might have been the following new features:

(1) More intensive tree search by providing additional search levels, which had been a straight-forward thing to do, and which could have further improved the search among large trees.

(2) Possibly a lot of new models and methods, but I

cannot tell because I have stopped observing the latest literature.

(3) Publication of my tree search algorithm ... yes, it is still unpublished! I did not have the opportunity, because my employment ended too early.

You may have noticed that I am currently not very motivated to continue the Treefinder project due to the lack of support. Nobody has offered me a good salary for continuing my work, nor has anybody offered me a reward for what I have worked in the past.

I consider closing down my website, because it only costs me money and does not earn me an income.

The interesting question is about what to do with my software and its source codes? - I am not going to make it available for free by storing it in some internet archive. Science does not deserve my software if it does not support me. Anyone interested in buying the project? Or shall I better charge for downloading? If yes, then how much? But I doubt this would earn me a reasonable income. Shall I redraw my permission to use Treefinder at all? Any suggestions?

Regards, Gangolf Jobb

Gangolf Jobb <gangolf.jobb@treefinder.de> Gangolf Jobb <gangolf.jobb@treefinder.de>

Tribolium wildtype strains

Dear EvolDir members,

For a morphological evolution project I'd like to screen several wildtype strains of Tribolium castaneum, T. freemani and T. madens for natural variation in several morphological traits. I already obtained nearly all available strains which were kept at the Tribolium Stock Center at the USDA-ARS Center for Grain and Animal Health Research, Manhattan, KS. However, some of those strains are fairly old and I would like to extend my analysis to more recently collected strains.

If anyone has strains (isofemale lines or freshly collected) and is willing to share them, I'd highly appreciate it!

Please feel free to contact me if you need more details about the project itself or if you have any other kind of questions.

Thank you very much in advance!

Best wishes Nico

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

Phone: +49 (0) 55139 8268 E-mail: nposnie@gwdg.de web: https://sites.google.com/site/niposcience/ web: http://www.uni-goettingen.de/en/44993.html

Early announcement for a Symposium on Size and Shape. More info: http://wwwuser.gwdg.de/~nposnie/SizeShape/

nico.posnien@gmail.com

Used ABI sequencers

Hello ,

My company is searching for used capillary and NGS sequencers (Life Technologies and Illumina) in laboratories worldwide. If your lab has a DNA sequencer and would like to sell it, or if you know people from other labs who might be interested in selling theirs, please contact us. We pay 100% upfront and take care of shipping from any country in the world. Of particular interest to us are the following series:

ABI 3130 AVANTABI 3730 seriesABI 3500 seriesIllumina Miseq

Biagen would like to offer you a choice of a MacBook, iPad3 or Amazom gift card for each reference that leads to a deal.

Biagen also offers fully refurbished capillary sequencers (3730's, 3130's, 3100's). Shipping to USA, Europe, China and India. Please contact me for more information or visit our website.

Best regards,Mark West,Biagen, Inc(p) +1-408-728-6525(e)mark.b.west@biagen.com

"mark.b.west@biagen.com"
<mark.b.west@biagen.com>

microMorph grants

Dear colleagues,

microMORPH is pleased to announce a funding opportunity for graduate students, postdoctorals, and assistant professors in plant development or plant evolution. $3,500 is available to support cross-disciplinary visits between labs or institutions for a period of a few weeks to an entire semester. We are particularly interested in proposals that will add a developmental perspective to a study of the evolution of populations or closely related species, or conversely, proposals to add a micro-evolutionary perspective to developmental studies. The deadline for proposals is November 1, 2013. More information about the training grants and the application process may be found on the microMORPH website:

http://www.colorado.edu/eeb/microMORPH/-grantsandfunding.html These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is part of the Research Coordination Network (RCN) Program at NSF. The overarching goal of the microMORPH RCN is to study speciation and the diversification of plants by linking genes through development to morphology, and ultimately to adaptation and fitness, within the dynamic context of natural populations and closely related species.

If you would prefer not to receive any more emails from me about the microMORPH RCN, please email me back with the word "NO" in the subject line and we will remove you from the mailing list. We will use this list for occasional updates on funding opportunities through the microMORPH RCN, and yearly workshops hosted by microMORPH.

Pamela Diggle

Professor Department of Ecology and Evolutionary Biology University of Colorado

Pamela.Diggle@colorado.edu

mtDNA rarefaction method

Dear EvolDir members,

I have a dataset consisting in COI sequences from several catshark populations with different sample size (7 < N < 24). In order to obtain comparable estimates of genetic diversity, I would like to employ a rarefaction algorithm. Can anyone suggest me a rarefaction method similar to those employed with microsatellites and if there is any software performing such analysis on mtDNA data?

Best regards, Michele Barbieri

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mbarbieri@biologia.unipi.it

PostDocs

AAFC Saskatoon EvolutionaryBioinformatics

Postdoctoral position in evolutionary bioinformatics

A postdoctoral fellowship in evolutionary bioinformatics is available in Crop Genetic Diversity Laboratory, Plant Gene Resources of Canada, Saskatoon Research Centre, Agriculture and Agri-Food Canada. We are looking for a motivated researcher with a background in evolutionary bioinformatics of genomic data and/or with computer programming skills. The researcher will join the research effort to investigate the mechanisms and genes responsible for, and to monitor, the loss of seed viability during long-term storage using next generation sequencing approaches. The researcher will also have the opportunity to explore research of their own interest, particularly associated with the evolution of seed ageing.

The successful candidate will be offered through an NSERC Government Visiting Fellowship with a fixed term of one year, extensible up to two extra years, with an annual stipend of about $48K. The position is available immediately until filled.

If you are interested, please contact Dr. Yong-Bi Fu (yong-bi.fu@agr.gc.ca) with your CV (listing names of 2-3 references) and cover letter. More details about Dr. Fu's crop genetic diversity lab and PGRC can be found at http://pgrc3.agr.ca/staff/fu_e.html . Yong-Bi Fu, PhD Plant Gene Resources of Canada / Les Ressources Phytogenetiques du Canada Saskatoon Research Centre / Centre de Recherche de Saskatoon Agriculture and Agri-Food Canada/Agriculture et Agroalimentaire Canada 107 Science Place Saskatoon, SK S7N 0X2 Canada Telephone/Téléphone: 306-956-7642 Facsimile/Télécopieur: 306-956-7246 Email: yong-bi.fu@agr.gc.ca http://pgrc3.agr.ca/staff/fu_e.html

"Fu, Yong-Bi" <Yong-Bi.Fu@AGR.GC.CA>

Avignon France SelectionDrift

Postdoctoral Position in modeling population genetics of invasive species

We seek to hire a post-doctoral research associate for a Grand Federative Project funded by the French Agropolis Fondation1 called BIOFIS "Bioagressors and invasive species: from individual to population to species". The project is dedicated to develop, coordinate and communicate research actions on bioagressors in Europe (insects, mites, trees, fungi and virus) and

on their associated natural enemies. It is coordinated by A. Estoup and J.-Y. Rasplus (CBGP, Montpellier, France).

Term: The position could begin as early as December 2013, and as late as December 2014. Support is for one year.

Location: This position is co-supervised by E. Klein (INRA - BIOSP, Avignon France) and V. Ravigné (CIRAD - BGPI, Saint-Pierre, Réunion island, France until July 2014 and Montpellier, France afterwards). We encourage applicants to be based in Avignon, with possibly one or two short stays in Réunion island, but other combinations can be envisaged.

Eligibility: Agropolis Fondation typically considers applications from candidates that have not resided or carried out their main activity (work, studies, etc) in France for more than 12 months in the 3 years immediately prior to the date of submission of the proposal and that have obtained their PhD degree for no more than 3 years upon the date of application. However, we encourage excellent candidates not entirely fulfilling these conditions to contact us, as these might be funded if no other eligible candidate satisfies scientific requirements for the job.

Project: Developing empirical approaches aiming at detecting traces of selection during bioinvasions relies on the analysis of the spatial genetic structure of populations at a large number of loci in colonizing species (genome scan). However, the strong effects of genetic drift associated to the specific demography of an expansion (in particular successive funding effects distributed in space) interact with selection and might lead to erroneous conclusions. To better understand the interaction between drift, selection, dispersal, we wish to design and analyze spatially explicit simulation models allowing studying the spatial spread of beneficial/neutral/deleterious mutations during a colonization process. We are particularly interested in studying the effect of i) environmental heterogeneity and ii) non-standard mating systems (e.g., mixing sexual and asexual reproduction) on the process. In the end, these theoretical results may be confronted to population genetics data in different species.

We seek a young researcher who combines very good technical talent for modeling (mathematical and computer science skills) with an interest and enthusiasm for invasion processes and population genetics. Experience with programming, bioinformatics and population genetics is required. Skills in data analysis are not necessary but will be considered positively. Facility in writing is important. The post-doc will benefit by working as a member of the BIOFIS project team with an extent network of collaborators interested in dispersal, invasion biology, plant pathology, evolutionary biology and population genetics. 1 Agropolis Fondation: http://www.agropolis-fondation.fr/ Contact : Virginie Ravigné Researcher at CIRAD - UMR BGPI

Address: UMR PVBMT Station de Ligne-Paradis Pôle de protection des plantes 7 chemin de l'IRAT 97410 Saint-Pierre - Réunion

Phone : 0262 49 92 24 Mail : Virginie.Ravigne@cirad.fr http://agents.cirad.fr/index.php/virginie.ravigne http://www.vravigne.wordpress.com Virginie Ravigné <virginie.ravigne@cirad.fr>

CIBIO Portugal HumanEvolutionaryGenetics

Research Position in Human Evolutionary Genetics (CIBIO, Portugal)

CIBIO (http://cibio.up.pt) is a young and highly dynamic research centre located near Porto, in Northern Portugal, which conducts world-class research in the fields of biodiversity and evolution. The Centre offers great opportunities for multidisciplinary and stimulating research and hosts 18 research groups, which include more than 100 PhD level researchers, and over 100 MSc and PhD students, from many different countries. The working atmosphere is vibrant, multicultural and enthusiastic, and we host regularly international scientists for short term visits. The Centre has state of the art ecology and molecular laboratories (equipped with multiple PCR rooms, automated sequencers, real-time PCR machines, etc), and a next-gen sequencing platform. Research projects are performed at a global scale. The Northern region of Portugal provides rich cultural and outdoor activities and Porto is a world-heritage town and the capital of Port wine.

We are now advertising a 12 months full research contract, possibly renewable, funded by an FP7 CAPACITIES program (FP7-REGPOT-CT-2011-286431-CIBIO-New-gen) and expect to recruit an enthusiastic and highly motivated researcher in the area of Human Evolutionary Genetics.

The Human and Evolutionary Research Group's interests cover different research topics related to the evolutionary history of human genes and populations, using genome-wide sequencing and SNP data. A strong focus will be devoted to the demographic history of African

populations, in particular to southern Angolan groups that are pivotal to understand the peopling of Southern Africa. A particular emphasis will be given to the analysis of spatial patterns of genetic variation. As an additional topic, the work on Southern Angola will include the analysis of the genetic diversity of cattle and sheep breeds held by peoples relying on farming and herding to different extents. The candidate is expected to have an interdisciplinary attitude, rather oriented towards data analysis than to data generation. Accordingly, s/he will have a sound knowledge of population genetics theory and master different kinds of data analysis software to interpret human population genetic data. Additional computer programing skills will be considered an advantage. Applicants should have a PhD degree and a good publication record in SCI journals. Fluency in English (spoken and written) is required. As the candidate will be invited to participate in teaching at the MSc and PhD levels, teaching experience will be valuable. The selected candidate is expected to establish solid collaborations and to be able to attract national and international funding. Salary corresponds approximately to a gross annual income of 45000 euros (before taxes). The selected candidate is expected to start immediately after selection.

Applications should be sent to diretor@cibio.up.pt and include a detailed CV, a letter of motivation and research interests, and the contact of 3 referees. Candidates with outstanding curricula will be invited for a Skype interview. Applications will be open until the position is filled. Incoming applications will be reviewed immediately and there is no obligation to hire any of the candidates.

CIBIO has an equal opportunity policy. We aim to ensure that no applicant receives less favorable consideration on the grounds of gender, marital status, race, age, color, nationality, ethnic origin or religious belief.

Informal enquiries can be made to: Dr. Natália Dias Executive Coordinator of CIBIO Natalia.Dias@cibio.up.pt Phone: +351 252660422

Natalia Dias <natalia.dias@cibio.up.pt>

CNRS Moulis EvolutionDispersal

An 18 month position for a post-doctoral researcher on a funded project examining the evolution of dispersal and sociality is now available at our lab.

The impact of human activity is causing increasing habitat fragmentation as well as rapid changes in the environment. To survive changes, species must search for and find new habitats in a fragmented landscape or risk extinction. Our understanding of the long term viability of fragmented habitat patches, or metapopulations, is based on natural systems but we know very little about how species will respond to increased fragmentation and increasing attempts at movement among patches. How will species react to fragmentation and anthropogenic impacts and how will they navigate this new landscape? How individual heterogeneity will impact this evolution?

The focus of the project funded by the ANR is centered on condition-dependent dispersal, meta-population dynamics, individual heterogeneity, and the evolution of sociality (cooperation). This project seeks to experimentally manipulate parameters of dispersal behavior, heterogeneity of source populations, and social aggregations to understand trade-offs and key determinants of the evolution of animal movement. The project is lab based, using Tetrahymena thermophila–a unicellular ciliated protist–as a model organism. This system provides broad opportunities to test theory and conduct controlled experiments at both short (behavior across a few hours) and long time scales (evolution across ˜6 months). Experiments to be determined by the post-doc in collaboration with the PIs will explore the evolutionary response of an organism and the critical features that allow persistence in fragmented habitats and navigation of altered landscapes. Our recent work has shown genetic variation in dispersal and cooperative behavior among clonal lines (individual heterogeneity) and has investigated some elements of condition-dependent dispersal (information use, dispersal phenotypes, plasticity).

The ideal candidate will have a strong interest and theoretical background in the evolution of dispersal, sociality, and/or have experience with lab work (genetic or cell culture). The duration of the funded position is 18 months with a possible extension of up to one year.

This project is lead by Dr. Jean Clobert and the successful candidate will work with both Dr. Clobert and Dr. Alexis Chaine and interact with other experts in dispersal and landscape ecology at the lab. The research group is in the foothills of the French Pyrenees Mountains at a CNRS field station (Moulis / Saint Girons). The newly renovated lab has state of the art facilities including a cell culture lab and genomics lab that will be used by this project. The lab has a small, but vibrant permanent research group and augments its academic circle through frequent interactions with the Ecology group at Toulouse and numerous international

visiting scientists each year.

Informal inquiries can be sent to Jean Clobert (jean.clobert@ecoex-moulis.cnrs.fr) or Alexis Chaine (alexis.chaine@ecoex-moulis.cnrs.fr). Applicants should send a letter of intent explaining why you believe you are a good fit for this position, a CV, and contact information for 2-3 people who can write letters of support to Alexis Chaine at alexis.chaine@ecoex-moulis.cnrs.fr. Applications will be examined on 1st of November 2013 and continue until the position is filled.

Alexis Chaine CNRS Researcher Station d'Ecologie Expérimentale du CNRS (USR 2936) 2 route du CNRS 09200 Moulis France

alexis.chaine@ecoex-moulis.cnrs.fr

Tel. +33 (0)5 61 04 03 78 Fax. +33 (0)5 61 96 08 51

alexis chaine <alexis.chaine@ecoex-moulis.cnrs.fr>

CNRS Paris DenguePhylodynamics

Posdoc position: Phylodynamics model of Dengue epidemics in Cambodia at UMR 7625 UPMC-CNRS-ENS Paris, France

A 2year postdoc position is available to work on the "Modeling the spatio-temporal dynamics of Dengue in Cambodia accounting for viral evolution" at the Department of Ecology and Evolution, Paris (ENS) under the supervision of Professor Bernard Cazelles.

Today, Dengue fever represents a major challenge in public health and threatens especially South-East Asia. The objective of DENFRE European Project (http://-www.denfree.eu/) is to improve our knowledge on the ecological and evolutionary dynamics of Dengue in this area to design innovative public health measures. This project is strongly interdisciplinary and is composed by epidemiologists, biologists, computer scientists, statisticians and mathematicians.

As a part of this research project, the successful candidate will have to develop cutting- edge models that would be used synergistically with empirical data on disease incidence, viral genetic and antigenic variation. These mathematical and/or computational models of dengue propagation will be supported by epidemiological and antigenic data from DENFREE consortium, in close relationship with the Pasteur Institute in Cambodia. In particularly, the successful candidate will have to account for heterogeneous and highly interdependent data through a Bayesian framework. This approach is sufficiently flexible to design phylodynamic models that account for non-linear disease dynamics, molecular selection and population structure. This modeling will also take the advantage of the PLoM plateform (http:/-/www.plom.io) in close collaboration with its founders.

The successful applicant will be broadly trained in quantitative biology and evolutionary biology or a related field (PhD or equivalent degree required), with expertise in one or more of the following areas: computer science, mathematics, and computational biology. A previous experience in biological modeling is expected. A strong taste for inter- disciplinary research is required.

The appointment is for two years can start between November 2013 and January 2014. The net salary will be approximately of 24,000 Euros per year but can depend on the previous experiences of the candidate.

Applications should include a motivation letter, a CV including a list of publications, and the address of two-three references. The applications, as well informal enquiries about the position, should be sent to: cazelles-at-biologie.ens.fr

roche.ben@gmail.com

DartmouthCollege ComparativeNeuroethology

Postdoctoral Research Fellow Position in Neuroethology

Department of Biological Sciences, Dartmouth College.

Project Description:

Applications are invited for a postdoctoral position investigating the neuroethology of anti-predator behavior in moths in the lab of Hannah ter Hofstede (http://-www.dartmouth.edu/~terhofstede). Ultrasound sensitive ears have evolved in many moth groups for the purpose of detecting, and then avoiding, echolocating insectivorous bats. The simple ears of moths, with only 1-4 receptor cells depending on the family, allows us to assess all the information entering the nervous system and how this small amount of information can be used to elicit well adapted behavioral responses. The research fellow will investigate the relationship between the activity of these receptor cells and behavioral re-

sponses across diverse moth species to assess the role of sensory system complexity in the flexibility of adaptive behaviors. The initial position is for one year with the possibility of renewal for a second year. The start date is flexible.

Location and facilities:

Dartmouth College is located in Hanover, New Hampshire, USA, surrounded by beautiful forest and countryside with access to the Appalachian Trail. This provides an amazing setting for various outdoor activities, including fieldwork with local species of bats and moths. Equipment and facilities include hardware and software for ultrasonic recording and playback, video tracking hardware and software, electrophysiology equipment (extracellular) for use in the lab and the field, and acoustic chambers for both behavioral and neurophysiological experiments.

Qualifications:

Applicants should have a PhD or postdoctoral work experience in neurobiology and/or animal behavior. Preference will be given to applicants that have experience with neurophysiological experiments and a background in acoustics. Dartmouth College is an equal opportunity employer.

Applications:

Please email a cover letter (describing your research interests, experience and goals), a CV, and three references (name, address, phone number, email address, relationship to applicant) to Hannah.ter.Hofstede@Dartmouth.edu.

Due date:

Applications should be received by Friday October 18, 2013.

Hannah.ter.Hofstede@dartmouth.edu

EmoryU PollenDNAbarcoding

Post-doctoral research fellow position in DNA barcoding of pollen

We are seeking a post-doctoral research fellow position in DNA barcoding of pollen at Emory University. The post-doctoral fellow will be responsible for both developing the methodology and contributing to its broad application. Position can begin as early as September 2013 with an initial appointment of one year, renewable annually for up to 2 additional years (3 total years) contingent on performance. Review of applications will begin immediately and will continue until the position is filled.

The successful candidate will possess a completed Ph.D. in plant molecular ecology / evolution / genetics or a closely related field, strong laboratory skills in basic plant molecular genetics, excellent written communication skills, solid statistical and computer programming abilities, and a strong work ethic. We will consider candidates with a strong molecular background even if they have not previously worked with plants.

Additional desirable skills include experience with pollen genetics; experience with next-generation sequencing, including data post-processing; and strong programming skills in a bioinformatic context. The successful candidate will mentor undergraduate and graduate students and will work in an interdisciplinary setting, collaborating with individuals from a range of departments and centers at Emory and other academic institutions.

Emory is situated in a wooded corner of Atlanta, a vibrant, diverse, and affordable city with a range of academic, cultural, and outdoor opportunities.

Review of applicants is underway and we will consider applications until the position is filled. To apply (serious applicants only, please) send a CV and a cover letter detailing your educational background, relevant skills and experience, and their application to the project to Dr. Berry Brosi (bbrosi@emory.edu). Serious applicants may contact Dr. Brosi for more information.

Kevin S. Burgess, Ph.D. Associate Professor & Herbarium Curator Department of Biology, College of Letters & Sciences, 163A LeNoir Hall, Columbus State University, Columbus, GA, USA 31907-5645 Associated Faculty (Auburn University) Office: 706-507-8266 email: burgess_kevin@ColumbusState.edu http://facstaff.columbusstate.edu/burgess_kevin/-website/Kevin_S_Burgess_lab.html "Kevin S. Burgess" <burgess_kevin@columbusstate.edu>

Harvard Behavioral genomics seabirds

Postdoctoral fellowship in Behavioral Genomics of Seabirds

Harvard University, Department of Organismic and

Evolutionary Biology and Museum of ComparativeZoology

We are seeking a 2-year postdoctoral researcher to further our ongoing collaborative work on the chemical ecology and genetics of Leachs storm-petrels (Oceanodroma leucorhoa), a small colonial seabird and an emerging model for behavioral genetics of olfaction and mate choice. Specifically the postdoc will focus on the genomics aspects of the project and will be based primarily in Scott Edwards lab at Harvard University. The project seeks to understand the genetic correlates of mate choice, chick growth, life history and chemical profiles of storm petrels, focusing principally on a large colony of petrels on Bon Portage Island at the southern tip of Nova Scotia Canada. The postdoc will participate in all aspects of the genomics work and fieldwork: helping collect samples in the field; archiving genetic samples for DNA and RNA isolation and analysis; and conducting genomic analysis using next-generation sequencing, specifically Rad-tags and other methods for generating large panels of SNPs in ecologically and behaviorally-characterized population samples for association studies. The ideal candidate will have strong publication rate and experience in genomic analysis of natural populations, experience in computational genomics or statistics, or some combination of these. Familiarity or research experience in olfaction or chemical ecology would also be useful. This is a highly collaborative project across multiple laboratories, thus the successful candidate will also be good at working in an environment that includes graduate and undergraduate students, and at reporting results regularly to a team of ecologists, chemists and evolutionary geneticists.

The postdoc will have a start date of January 2014 and will be funded by a recent NSF grant lead byProfessor Gabrielle Nevitt of UC Davis. An abstract of the grant can be found here: http://www.nsf.gov/awardsearch/-showAward?AWD_ID=1258828&HistoricalAwards=-false A PhD in genetics, ecology, evolution, or a related field is required. Salary and benefits are competitive. Review of applications will begin September 30, 2013. Please send a CV with a list of three individuals who may be asked to supply references; a cover letter outlining the candidates interest in and suitability for the position; and three publications in a merged pdf file to Scott Edwards at sedwards@fas.harvard.edu with a cc to Gabrielle Nevitt at ganevitt@ucdavis.edu. Harvard University is an affirmative action/equal opportunity employer and applications from women and minorities are encouraged.

Contact: Scott Edwards, Department of Organismic and Evolutonary Biology and Museum of Comparative Zoology, Harvard University. sedwards@fas.harvard.edu

http://www.oeb.harvard.edu/faculty/edwards/ http:/-/www.oeb.harvard.edu/faculty/edwards/gallery/-BP.html and Gabrielle Nevitt, Department of Neurobiology, Physiology and Behavior, University of California, Davis, CA ganevitt@ucdavis.edu

http://nevittlab.org/The_Nevitt_Lab/HOME.html
"Edwards, Scott" <sedwards@fas.harvard.edu>

IJM Paris AnimalEvolution

Dear Colleagues,

Please pass along the following announcement regarding a postdoc position open in our laboratory to any potential candidate.

A two-year post-doctoral position is available in the group of Guillaume Balavoine and Michel Vervoort at the Institut Jacques Monod (IJM) in Paris (France). The IJM is a leading French biological research institute, comprising about 25 interactive research groups and high-quality technological facilities, including a cutting-edge imaging platform.The primary research focusof the group is to reconstruct the early stages of animal evolution, by comparing the genetic networks that regulate the developmental patterning of key aspects of the body plan across metazoans. The main model studied by the group is the annelid worm Platynereis dumerilii, an emerging model species. Platynereis is a member of the Spiralian/Lophotrochozoan branch of the bilaterian tree and is hypothesized to be as close to a "bilaterian living fossil" as a bilaterian can be, both in terms of genome organization and body plan.

The post-doc project aims at understanding and modelling cell movements and cell shape changes that direct CNS and segment morphogenesis in Platynereis, as well as determining the roles of the Planar Cell Polarity (PCP) and Rho/ROCK/MyoII pathways in these behaviours. The project will be centered on the use of live imaging, molecular and modelling tools. Candidates should have a strong background in developmental and/or evolutionary biology. Expertise in live imaging would also be welcome. Candidates must hold a Ph.D. degree in developmental or evolutionary biology and have at least one first author publication in a peer-reviewed journal. Potential candidates should send their application by mail to Guillaume Bal-

avoine (balavoine.guillaume@ijm.univ-paris-diderot.fr) and Michel Vervoort (vervoort.michel@ijm.univ-paris-diderot.fr) with a statement of interest, a Curriculum Vitae and contact informations for two referees. The position will remain open until filled; however applications received by September 30th 2013 will be given priority. The starting date is preferably before the end of 2013.

Thank you very much in advance for your help. Best regards,

Michel Vervoort Professeur de l'Université Paris Diderot Membre de l'Institut Universitaire de France Institut Jacques Monod - CNRS Université Paris Diderot 75005 Paris cedex 13

pierrekerner@yahoo.fr

INRA Rennes Macrobrachium PopulationGenetics

Research Group in Ecotoxicology and Quality of Aquatic Environments

INRA - French National Institute for Agriculture Research, Rennes France.

* Fellowship focused on phylogeography and population genetics

* Full-time employment

* Fixed Term position for one year (12 months)

* Net salary: 2400 EUR/month

The INRA research group in Ecotoxicology and Quality of Aquatic Environmentsdevelops and applies the use of the Genus Macrobrachium (Crustacea, Decapoda) as a sentinel organism for biomonitoring surface water quality in the French West Indies (Guadeloupe and Martinique). This work is financially supported by the French National Agency for Water and aquatic Environments in the context of a wider programme on biondication methods in French Overseas Regions. We are looking for a Postdoctoral Research Scientist to study Macrobrachium spp. population genetic structure and connectivity, using molecular markers and barcoding approaches.

Applicants must have a PhD degree and expertise in Molecular Biology, Population Genetics, and Phylogeography, with a strong interest in evolutionary ecology and environmental questions. Experience of field sampling in aquatic environments would be desirable.

Applications are encouraged from proactive and highly motivated individuals who have demonstrated their ability to work independently and within a group, achieve project aims and with evidence of excellent written communication.Applicants must have an adaptable approach at work and excellent communication aptitudes.An ability to combine an imaginative, structured and organised approach with enthusiasm is important.

The post will be based in the INRA research group in Ecotoxicology and Quality of Aquatic Environments, Joint Research Unit of Ecology and Ecosystem Health, Rennes, France.The successful applicant must be prepared to travel to and spend some time in the French West Indies for field sampling. Travel and accommodation fees will be covered by INRA.It is essential that candidates hold a clean, current driving licence.

Applications should include: (1) a cover letter with a short statement of motivation, description of research interest, and postdoctoral goals, (2) CV, (3) list of publications, (4) contact details of two referees.

Applications should be submitted electronically by 15ˆth October 2013, as a single PDF file to Laurent Lagadic (Laurent.Lagadic@rennes.inra.fr). Further inquiries regarding the position are welcome.

Marie-Agnès Coutellec UMR INRA-Agrocampus Ouest 985 ESE Equipe Ecotoxicologie et Qualité des Milieux Aquatiques 65 rue de Saint-Brieuc - CS 84215 35042 Rennes cedex - FRANCE

tél.: +33(0)2 23 48 52 48 fax: +33(0)2 23 48 54 40
http://www.rennes.inra.fr/ecologie_sante_ecosystemes
marie-agnes.coutellec@rennes.inra.fr

ITG Belgium Bioinformatics

http://www.itg.be/itg/uploads/Personeelsdienst/-ITGvacatures/Vacature_V2-20130830-Post-doctoral%20researcher%20mycobacteriology.pdf
Post-doctoral bioinformatician Mycobacteriology

Department of Biomedical Sciences - Unit of Mycobacteriology

Research context The Institute of Tropical Medicine (ITM) is internationally recognized as a center of excellence for education, research and service delivery in the field of Tropical Infectious Diseases. Within the

Department of Biomedical Sciences the Mycobacteriology Unit, headed by Prof. de Jong, conducts studies to understand the evolution and transmission dynamics of tuberculosis and Buruli ulcer. The Unit has several collaborative projects with partners in endemic regions -among others- Benin, the Gambia and the Democratic Republic of the Congo. A position is opened in this group for a post-doctoral researcher who will contribute to this line of research using his/her expertise in comparative genomics and bioinformatics.

Assignment:

You will be involved in a project to study the impact of an enhanced-case- finding strategy on tuberculosis transmission currently ongoing in The Gambia (±50% of your time).

You will be involved in a project on the global spread and transmission dynamics of Mycobacterium ulcerans in Benin and the Democratic Republic of the Congo (±50% of your time).

You will apply state-of-the-art NGS methodology and bioinformatics.

You will act as supervisor of students who write a master's thesis and/ or PhD students.

You will take part in capacity building activities within ITM and outside ITM, as well as peer review activities.

You will develop your own research projects and apply for competitive research grants.

Profile:

You hold a relevant PhD degree in bioinformatics, or will complete such PhD degree prior to starting this position.

You have experience with comparative genomics of prokaryotic organisms, basic script writing, sequencing pipeline development and phylogenetic analysis.

Knowledge of biology and/or experience working with biologists would be an asset.

Knowledge in statistics and/or mathematical modeling would be an asset.

You have excellent knowledge of English. Fluency in French would be an asset, as well as (an interest in learning) Dutch.

We offer:

An intellectually stimulating, international and socially committed environment, in which personal initiative can be developed.

A full-time contract of 2 years, with possibility of renewal. Commencement of employment: from January 1, 2014.

A salary set according to the pay scales of the ITM and the Flemish universities.

Reimbursement of public transport costs, bicycle compensation and luncheon vouchers.

Interested? For more information about this position, please contact Prof. dr. Bouke de Jong, Head of the Mycobacteriology Unit (bdejong@itg.be, or +32(0)3247.65.90).

Applications with application form and motivation letter should be received by e-mail at Vacatures@itg.be, by October 18, 2013.

Please use the application form available as a download on www.itg.be/vacatures . Miriam Eddyani PhD Mycobacteriology Unit Institute of Tropical Medicine (www.itg.be < http://www.itg.be/ >) Nationalestraat 155, B-2000 Antwerpen, Belgium Tel: +3232470818 Fax: +3232476333 meddyani@itg.be

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Disclaimer: Http://www.itg.be/disclaimer Directions to our location(s): http://g.co/maps/ua89b MEddyani@itg.be

IowaStateU EvolutionaryGenomics

Postdoctoral Researcher: Evolutionary Genomics

A postdoctoral position is available on the evolutionary genomics of maize in the Department of Ecology, Evolution, and Organismal Biology (EEOB) at Iowa State University (ISU). The position will be offered through collaboration between Matthew Hufford of EEOB and Andrew Severin, head of the Genome Informatics Facility at ISU, providing the chosen candidate with opportunities in both population genomics and bioinformatics. Salary will be $55,000 per annum with an initial appointment of one year and possible extension to additional years based on performance and funding.

The postdoctoral scholar will use next-generation sequencing data to identify polymorphisms across an Americas-wide sample of maize landraces and, through population genomic analyses, test the hypothesis that maize has acquired adaptation to highland conditions in parallel in multiple geographic regions. Possibilities also exist for the candidate to develop new projects re-

lated to the overall goals of the Hufford Lab and the Genome Informatics Facility.

An ideal candidate would have a strong background in evolutionary genetics, prior experience with whole-genome next-generation sequencing data, and well-developed computational and analytical skills. The start date is flexible, with a preference for starting during or prior to January of 2014.

Applicants should send a curriculum vitae, contact information for three references, and a cover letter to Matthew Hufford (mhufford@iastate.edu).

Additional information regarding the Hufford Laboratory and the Genome Informatics Facility can be found at the following URLs:

http://www.public.iastate.edu/ ~ mhufford/-HuffordLab/home.html http://-gif.biotech.iastate.edu/ Matthew Hufford Assistant Professor Iowa State University Department of Ecology, Evolution, & Organismal Biology 339A Bessey Hall phone: 515-294-8511 email: mhufford@iastate.edu

Matthew Hufford <mhufford@iastate.edu>

KansasStateU GenomicsCropAdaptation

The Morris lab at Kansas State University is recruiting a postdoctoral research associate in Genomics of Crop Adaptation.

The focus of the position is to dissect the genetic basis of agroclimatic adaptation in sorghum, a major cereal crop for semi-arid Africa and Asia and a leading feedstock for sustainable bioenergy production (http:/-/www.pnas.org/content/110/2/453.full).

The successful candidate will develop independent research objectives using new genomic resources currently under development:

- Nested association mapping populations for genomic dissection of agroclimatic traits. - Genome-wide SNP maps of global sorghum diversity for trait-climate-SNP associations. - Transcriptome analyses of diverse accessions under environmental stressors.

We are open to a wide range of applicants with strong quantitative backgrounds. Individuals with experience integrating statistical genetics and next-gen data are especially encouraged to apply. A strong interest in agriculture is preferred, but no experience with crop species is necessary.

The position is available Nov 1. Instructions on applying are found in the Position Announcement: http:/-/www.ksre.ksu.edu/doc15954.ashx Please feel free to get in contact if you have any questions (gpmorris@ksu.edu)

Geoff Morris

Assistant Professor | Department of Agronomy | Kansas State University gpmorris@k-state.edu | www.morrislab.org gpmorris@k-state.edu

KunmingInst EvolutionaryEcol

Postdoc: Kunming Institute of Zoology. Evolutionary Ecology.

A postdoc position is available based at the Kunming Institute of Zoology, People's Republic of China. The position is for two years and will be funded by a new National Science Foundation of China (NSFC) research grant to Drs. Rui Wu Wang (Kunming Institute of Zoology (KIZ)) and Derek Dunn (Yunnan University of Finance and Economics, Kunming). The work will involve extensive fieldwork at the Xishuanbanna Tropical Botanic Gardens (XTBG), Yunnan Province, and laboratory work at KIZ.

The successful candidate will use stable isotope analysis to identify the trophic relationships between species in a fig wasp community, and will measure the selective strength each species has on each mutualist in two fig tree-fig wasp mutualisms. Ideal candidates will have a Ph.D. in evolutionary ecology, experience of performing field experiments using insects and be able to provide evidence of publishing their work in peer reviewed journals. Experience in chemical ecology and the formal statistical quantification of natural selection would be an advantage.

We will also consider applicants with experience in the mathematical modelling of cooperation/mutualism.

Pay will be up to 10, 000 yuan per month including various allowances, depending on experience. If required, visas enabling the successful candidate to work in China will be arranged by KIZ.

Interested parties are requested to send by 17th October 2013 a full CV including the contact details of three referees, and a cover letter explaining why they want

the position, to Rui Wu Wang: ruiwukiz@hotmail.com

The position will remain open until a suitable applicant is found but it is envisaged that fieldwork will begin in the spring of 2014.

dwdunn@btinternet.com

MasseyU ComputationalBiology

Postdoctoral Position in Computational Biology (A307-13SF)

I am looking for a motivated and productive postdoctoral fellow to join my computational biology research group. My team conducts research in several related areas, particularly evolutionary genomics, simulation modeling and complex systems. Potential study topics include i) using genomic data to reconstruct human prehistory in the Pacific region, ii) using approaches from complexity science to infer how genetic diversity interacts with social behaviors in small communities, and iii) using high throughput RNA-sequencing to determine universal rules behind gene expression in allopolyploid species. Candidates' proposed research must fit with my group's existing research interests, and must be computational (i.e., not primarily field- or lab-based).

Candidates must have solid quantitative skills, preferably including a background in bioinformatics, statistics and programming. Training in other subject areas (such as biology or anthropology) can be provided as required.

Funding is guaranteed for 2.5 years. Salaries are extremely competitive, starting at NZ $64,000 (~US $53,000) per year.

The postdoc will be based in the Computational Biology Research Group at Massey University, New Zealand. My research team is firmly embedded in the international scientific community, with extensive collaborative links to Australia, Indonesia, France and the United States. This position offers a rare opportunity to experience New Zealand's unique natural and cultural environment. Palmerston North, a university town with a large international community, offers a full range of social and cultural amenities. The city is located close to both mountains and the sea, and presents regular opportunities for hiking, skiing, surfing, and adventure sports.

If you have any questions, please contact Assoc Prof Murray Cox (tel +64-6-356 9099 x2570; email m.p.cox@massey.ac.nz). Information about the Computational Biology Research Group (http://massey.genomicus.com/) and the Institute of Fundamental Sciences (http://tinyurl.com/ifsmassey) is available online.

To apply for this position, upload the following documents (in PDF format) by 20 October 2013 at the official Massey University job website: http://jobs.massey.ac.nz/PositionDetail.aspx?p=8029 1. A brief statement of research interests, qualifications and experience. 2. A curriculum vitae, including a list of scientific publications. 3. The names and contact details of three referees willing to provide a confidential letter of recommendation upon request.

Assoc Prof Murray P. Cox Institute of Fundamental Sciences Massey University Private Bag 11 222 Palmerston North 4442 NEW ZEALAND

http://massey.genomicus.com/
M.P.Cox@massey.ac.nz

MaxPlanckInst BlueTitEvolution

Postdoctoral research position on parental care in blue tits at the Max Planck Institute for Ornithology

The department Behavioural Ecology & Evolutionary Genetics at the Max Planck Institute for Ornithology in Seewiesen is looking for a postdoctoral researcher to explore parental care patterns in a population of blue tits (Cyanistes caeruleus). The project is part of a long-term study on the breeding ecology and mating behaviour of blue tits. The focus of this project will be the analysis of spatiotemporal variation in parental care using a unique dataset where parental behaviour has been monitored extensively since 2008 using RFID technology ("smart nestboxes").

The position is funded for the duration of 2 years. The position requires no teaching, but the postdoc is expected to assist with supervision of graduate and undergraduate students. The postdoc may also participate in ongoing field work with the option to develop a field-based project.

A Phd in behavioural or evolutionary ecology and strong quantitative skills are required. We are looking for someone who enjoys analyzing large and complex datasets. Major aspects of the work will include the development of algorithms for extraction, organization

and processing of raw data, application of an array of statistical tools, and investigating spatial and temporal data structure. The position requires the ability to work autonomously in a structured and effective manner and good oral and written communication skills. Experience with fieldwork on birds and with research on parental care is a bonus. Preference will be given to applicants that have recently finished their PhD and that have a strong publication record given their career stage.

The successful candidate will join a vibrant, international group of researchers at an institute focused on research on birds. We provide a supportive research environment with excellent facilities. Working language is English.

To apply, please send a CV, including a list of publications, a statement summarizing your qualifications and indicating why you are interested in the position, and names and contact details of 2-3 references to Carmen Dobus, cdobus@orn.mpg.de. Applications will be reviewed starting November 4th and will continue until the position is filled.

Informal enquiries concerning the position can be made with Mihai Valcu (valcu@orn.mpg.de) or Bart Kempenaers (b.kempenaers@orn.mpg.de).

Prof. Dr. Bart Kempenaers Director Max Planck Institute for Ornithology Dept Behavioural Ecology & Evolutionary Genetics E Gwinnerstrasse 82319 Seewiesen Germany

Tel +49 8157 932 334 Tel +49 8157 932 232 (Secretary C. Dobus) Mobile +49 172 835 1578 Fax +49 8157 932 400

b.kempenaers@orn.mpg.de

MaxPlanckInst Cologne PlantEpigenetics

The Max Planck Institute for Plant Breeding Research (MPIPZ) and Bayer CropScience

launch a

Biologist: Postdoc position for the computational analysis of epigenetic mechanisms in plants.

The postdoc will lead the design, analysis and interpretation of next generation sequencing-based experiments targeting changes in the epigenetic states as response to pathogen treatments and/or upon transposable element movement. This position offers the unique opportunity to work in a computational group and focus on the data analysis and interpretation, while the actual experiments will be performed by collaborators.

Located within the of Plant Breeding Research in Cologne, Germany, the position offers to research at the interface between academia and industry. Our group is closely collaborating with the Chemical Genomics Centre of the Max Planck Society and Bayer CropScience in Monheim, Germany.

We seek creative, skilled and highly motivated candidates with a PhD in life sciences, molecular biology or computational biology. We do require strong analytical, computational skills proven by an excellent publication record, and experience with the analysis of next generation sequencing data is more than a plus. Good communication skills and affinity to computational work are essential.

The position is limited to 2 years with a possibility for an extension of 2 more years.

The Max Planck Society is committed to employ more disabled persons. The application of disabled persons is strongly encouraged. The Max Planck Society is committed to increase the number of female scientists. Women are particularly encouraged to apply.

Applications including C.V. and publication list should be sent in electronic form to Korbinian Schneeberger (schneeberger@mpipz.mpg.de).

For more information see http://www.mpipz.mpg.de/-12838/schneeberger schneeberger@mpipz.mpg.de

MaxPlanckInst Ploen HybridSpeciation

Postdoc in evolutionary genetics of hybrids:

Max Planck Institute for Evolutionary Biology, Plön, Germany Postdoc position in evolutionary genetics of hybrid fish Application deadline: October 30th 2013

The group “evolutionary genetics of fishes” lead by Dr. Arne W. Nolte at the Max Planck Institute for Evolutionary Biology in Plön, Germany, is offering a 3 year postdoc position in evolutionary genomics of hybrid fish. This project is financed for five years and there is a possibility for an extension of up to two years. Project start is February 2014 and the postdoc should ideally

begin work in spring 2014. The salary of the postdoc will be according to the standard German pay scale including all social benefits (TVöD E13 salary).

The postdoc will assume a central position in our project "EVOLMAPPING" that is funded through an ERC starting grant. The goal of this project is to analyze evolutionary genetic processes in invasive Cottus, a lineage of fish that represents an example for the early steps of hybrid speciation. We will perform an exhaustive search of the Cottus genome to identify genes involved in evolutionary change induced through natural hybridization. The strategy is to integrate analyses of gene expression, genetic mapping and screens for genotypic selection in laboratory populations and wild fish to identify the links between genotypic and phenotypic evolution. Note that we are offering PhD positions in the framework of the EVOLMAPPING project and that the postdoc can interact with students and and contribute to the development of their projects.

We are seeking a postdoc with skills in programming (scripts and analysis pipelines), genetic mapping, next generation sequence analysis and genome evolution. The postdoc is expected to actively contribute in our ongoing collaborations with colleagues studying population genomics and whole genome re-sequencing of Gasterosteus and mice and who develop programs for mapping new genome sequences to distantly related reference genomes. The core dataset that will be generated includes Illumina sequencing of more than 20 Cottus genomes for population genomics, some of which will be used for de novo genome assembly. The latter will be supported by up to date approaches to facilitate genome assembly as for example sequencing of large insert libraries and RAD tag mapping of laboratory F2 crosses and natural hybrids to aid genome assembly. The expected output of the postdoc is to contribute to the genome assembly and to compare the genomic makeup of invasive Cottus with their parental species. The postdoc will be involved in fundamental research questions on comparative genomics relating to adaptive evolution and speciation and in comparisons between Cottus and distant reference genomes and we highly appreciate a creative postdoc who contributes to and extends our research agenda to learn about evolutionary change in hybrid fish.

We offer an English speaking and ambitious working environment at the Max Planck Institute for Evolutionary Biology in Plön, Germany. The Institutes main fields of work include evolutionary ecology (Prof. Dr. M. Milinski), evolutionary genetics (Prof. Dr. D. Tautz) and evolutionary theory (Prof. Dr. Arne Traulsen) and experimental evolution (Prof. Dr. P. Rainey) and hosts a number of research groups. The MPI in Plön collaborates with the nearby Christian Albrechts University of Kiel, Germany in a joint International Max Planck Research School that attracts PhD students from abroad which contributes to a multicultural working atmosphere.

The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Please apply by email to Arne Nolte (nolte@evolbio.mpg.de) until October the 30th 2013 and include a letter describing your motivation and scientific credentials, a scientific CV and pdf files of two relevant publications.

Arne Nolte

Department for Evolutionary Genetics

Dr. Arne W. Nolte

Group Leader

Max Planck Institute for Evolutionary Biology August Thienemann Strasse 2 24306 Plön, GERMANY

Phone: +49 4522 763-372

Email: nolte@evolbio.mpg.de www.evolbio.mpg.de/~nolte nolte@evolbio.mpg.de

Munich 1yr EvolutionaryBiol

A one-year partial part-time fellowship is available at the Parmenides Center for the Conceptual Foundations of Science in Pullach, Germany.

We seek an experienced theoretical evolutionary biologist with a solid background in statistical physics, stochastic processes, or similar field, to join the Center in exploring the scope of Darwinian Neurodynamics. This theory aims at understanding, developing and applying the parallelism between neural learning and Darwinian evolution. The candidate will benefit from an interdisciplinary team developing models based on replicator equations to describe and explain neural behavior and cognition.

The deadline for the application is the 30th of September. The position is a 12-month contract starting on the 15th of October, 2013.

Candidates should have a PhD degree in a relevant area, and due to the short duration of the project, s/he should preferably have prior experience with models of evolutionary biology. Writing and communication skills in English are mandatory. Notions of German are welcome but not essential. The stipend for this part-time fellowship is 1400 EUR per month.

To apply, send an email with a CV (including a list of major publications and achievements), motivation letter and contact information for three academic references to Prof. Eörs Szathmáry (szathmary.eorsr@gmail.com).

Please do not hesitate to contact me, if you have any questions about my request or the position to be filled. Thank you.

Kind regards,

Carsten Freitäger

Carsten Freitäger Projektmanagement Parmenides 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 Freitäger <carsten.freitaeger@parmenides-foundation.org>

NHM UOslo PlantSpeciation

Postdoctoral Research Fellow in biosystematics (plant speciation)

A 4-year position as postdoctoral research fellow (SKO 1017) in biosystematics/evolutionary biology (speciation in plants) is available at Natural History Museum (NHM), University of Oslo.

Job Description

Decreasing biodiversity with increasing latitude is a major pattern in ecology, often suggested to be caused by reduced speciation rates towards the north. The Arctic harbours little diversity in terms of named species. However, our recent research has demonstrated exceptionally high speciation rates in arctic diploid plants, resulting in many reproductively isolated but cryptic species, and showed that intrinsic postzygotic isolation is based on several loci and genetic mechanisms. Ongoing work has expanded these findings by more detailed genetic mapping and QTL analyses as well as by extensive crossing experiments, showing that reproductive barriers arise in spite of recent population divergence and that high speciation rates occur across four different plant families. A selfing mating system seems to accelerate the accumulation of hybrid incompatibilities.

The current postdoctoral project involves field work and comparative experiments with species from outside the Arctic as well as further exploration of genetic mechanisms, based on genome/transcriptome sequencing to identify speciation genes. Parts of the project will be carried out during research visits to international collaborators. Detailed research plans will be developed together with the successful applicant. The position is funded by the NHM, but the successful applicant will be expected to assist in developing proposals for additional external funding to cover running costs.

Requirements

The successful applicant should be an active researcher with a PhD in plant systematics or other relevant fields in evolutionary biology, and should preferably have experience in experimental work with plant cultures and in high-throughput sequencing technology.

Personal Skills

High working capacity Excellent collaborative skills Excellent command of written and oral English (documented) Strong dedication and motivation

We offer salary based on salary level 57-65 (NOK 473 400 - 548 700 per year) a challenging and friendly working environment membership in the Norwegian Public Service Pension Fund attractive welfare arrangements Evaluation of the application

In assessing applications, both professional skills and personal suitability for the position will be considered. Interviews with selected candidates will be arranged. Please also refer to the English translation of regulations pertaining to the conditions of employment for research fellowship positions.

https://www.uio.no/english/about/regulations/-personnel/academic/regulations-employment-conditions-postdoc.html The application must include:

Application letter including a statement of research interest

CV (summarizing education, positions and academic work - scientific publicationsand other relevant activities)

A short tentative project description (1 page) based on the research theme provided above.

Copies of educational certificates and letters of recom-

mendation

List of publications and academic work that the applicant wishes to be considered by the evaluation committee

Names and contact details of 2-3 referees (name, relation to candidate, e-mail and telephone number)

The application with attachments is to be delivered in our electronic recruiting system EasyCruit. 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 language. The University of Oslo wishes to increase the number of female scientists, and women are therefore particularly encouraged to apply. In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested individualsregardless of gender or ethnicity. According to the Norwegian Freedom of Information Act (offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non disclosure.

UiO has an agreement for all employees, aiming to secure the rights to research results a.o.

Application deadline: 22.09.2013

Location: Oslo

Reference number: 2013/10661

Home page: http://www.nhm.uio.no Announcement webpage: http://uio.easycruit.com/vacancy/1037599/-71922?iso=3Dno Contacts: Christian Brochman, professor. Telephone: +47 22851611 Fridtjof Mehlum, Research Director. Telephone: +47 22851723 Magnus Popp Telephone: +47 22851875

magnus.popp@nhm.uio.no

NIH Rockville VectorEvolution

Vector Ecology & Evolution - Post-Doctoral Position Available at NIH. A post-doctoral position is available in the Laboratory of Malaria and Vector Research at NIH/NIAID. We study mosquito ecology, population genetics, and mosquito-pathogen interactions from an evolutionary perspective using diverse approaches and methodologies. We are looking for a highly motivated, independently-thinking individual, who wants to design and conduct field and/or laboratory studies on the dry season ecology, behavior, and physiology of anophelines in the Sahel. A Ph.D. in entomology, ecology, behavior, quantitative/population genetics, or related field and at least one first-author publication are required. Experience in field biology, molecular biology, parasitology, and statistical analysis is desirable. No more than 5 years since completion of Ph.D. degree. To apply, please send CV, statement of research interests, reprints of recent papers, and names of three references to Office of the Chief c/o Wendy Hamm: hammw@niaid.nih.gov, LMVR, NIAID, NIH: by November 4, 2013.

If you require additional information about the position, please contact Tovi Lehmann. Additional info and selected references may be found here: http://-lehmannlab.freehostia.com/ Tovi

Tovi Lehmann, Laboratory of Malaria and Vector Research, NIAID, NIH 12735 Twinbrook Parkway, Room 2W-09-C Rockville MD 20852 Email: TLehmann@niaid.nih.gov Office: 301-451-1059 Cell : 240 408 9820 Fax: 301-480-2038 http:/-/lehmannlab.freehostia.com/ "Lehmann, Tovi (NIH/NIAID) [E]" <tlehmann@niaid.nih.gov>

NorthCarolinaStateU DrosophilaSystemsGenetics

POSTDOCTORAL RESEARCH ASSOCIATE IN SYSTEMS GENETICS OF DROSOPHILA LIFESPAN AT NORTH CAROLINA STATE UNIVERSITY

A postdoctoral position is available in the laboratories of Drs. Trudy Mackay and Robert Anholt at North Carolina State University to work on the systems genetics of Drosophila lifespan. The project will use next generation RNA sequencing of young and aged individuals of the Drosophila Genetic Reference Panel to derive and functionally validate causal transcriptional genetic networks associated with aging and senescence. This project has been recently funded for five years by the National Institute of Aging. The successful candidate will have a Ph.D. in Genetics or a related field, strong communication and interpersonal skills, and the ability to work effectively as part of a collaborative team. Experience in Drosophila genetics, quantitative genetics, statistics, bioinformatic analysis of next generation sequencing data and molecular biology is preferred. The salary is commensurate with research experience.

To apply, go to https://jobs.ncsu.edu/postings/28104.

The position number is 00103562. Provide a cover letter, curriculum vitae, and statement of research interests and experience. Three letters of recommendation should be sent to trudy_mackay@ncsu.edu. Questions and requests for additional information should be directed to the same address. Applicants will be considered until the position is filled; however, applicants should submit by 5:00 pm EST, September 30, 2013, for full consideration. The position is available starting immediately, but the start date is somewhat flexible.

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.

Trudy Mackay <trudy_mackay@ncsu.edu>

OhioStateU SeaAnemoneGenomics

Postdoctoral Researcher: Evolutionary genomics of venom in sea anemones

A postdoctoral position is available in the evolution of venom genes in sea anemones (Cnidaria: Anthozoa: Actiniaria) in the lab of Dr. Marymegan Daly, Department of Ecology, Evolution, and Organismal Biology, Ohio State University, Columbus.

The postdoctoral scholar will use next-generation sequencing data to identify venom genes in sea anemones, and use genomic analyses to explore the diversification of these genes across anemone lineages. A Ph.D. in ecology, evolution, or related field is required. Other required skills: experience generating, organizing, and analyzing next-generation data in a phylogenetic context; strong publication record. Preference will be given to applicants with familiarity with the evolutionary biology of venom and/or cnidarians. The postdoc is expected to generate and analyze data; produce publications relevant to the research; collaborate in development of ancillary proposals, symposia, and other outreach efforts; mentor graduate and undergraduate students.

Funding is available for 1.5 years, with a salary of $40,000 per year plus benefits. OSU is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce. Applicants from groups traditionally underrepresented in science are especially encouraged to apply.

Applicants should send curriculum vitae, contact information for three references, and a cover letter to Meg Daly (Daly.66@osu.edu). The cover letter should explicitly address the qualifications cited above and outline the professional goals and interests of the applicant. Applications will be reviewed starting October 15, 2013 and will continue until a suitable candidate has been identified. The start date is flexible.

Marymegan Daly Associate Professor Evolution, Ecology, and Organismal Biology Ohio State University 1315 Kinnear Rd Columbus OH 43215 (614) 247-8412 Daly.66@osu.edu

daly.66@osu.edu

OxfordU HostPathogenGeneticsDisease

Two post-doc positions are available in Dr Spencer's group at the Wellcome Trust Centre for Human Genetics. See www.well.ox.ac.uk/spencer-group .NOTE DEADLINE: 16th of September.

Postdoctoral Research Scientist in Statistical Genomics of Host-Pathogen Evolution The Wellcome Trust Centre for Human Genetics, Roosevelt Drive, Headington, Oxford Grade 8: £37,382 - £44,607 with a discretionary range to £48,729 p.a.

Applications are invited for a postdoctoral research scientist to join the group of Dr Chris Spencer, to investigate the evolutionary genetics of infectious disease. The role will require the creative development and application of new methods to large-scale genomics datasets. The post is an excellent opportunity for those with experience in statistical genetics, or individuals with a strong quantitative background in the life sciences, who wish to move into this exciting area.

You will take the lead on new projects in population genetics, including a close collaboration with MalariaGEN consortium. The aim of the research is to use genomic epidemiology to better understand why, in endemic areas, some individuals develop life-threatening malarial disease while others do not. Using new

genome-wide population data of African individuals we hope to directly assess the role of host-parasite interactions on the human genome. To address these questions our group is taking a combined approach, bringing together genome-wide association analysis and statistical tools for investigating evolutionary processes.

You will have a PhD with a strong quantitative component and experience of working with large data sets. You will need to be proficient in the use of statistical software, ideally R and a low level-language. You should be able to work both independently and as part of a team, and be able to digest and communicate scientific ideas effectively. You should enjoy visualising high-dimensional data, problem solving and drawing inferences from complex models.

This position is fixed-term for 3 years in the first instance and is funded by the Wellcome Trust.

Only applications received before 12.00 midday on Monday 16 September 2013 can be considered.

Postdoctoral Research Scientist in Statistical Genomics of Hepatitis C The Wellcome Trust Centre for Human Genetics, Roosevelt Drive, Headington, Oxford Grade 8: £37,382 - £44,607 with a discretionary range to £48,729 p.a.

Applications are invited for a postdoctoral research scientist to join the group of Dr Chris Spencer, to investigate the human genetics of infectious disease susceptibility. The role will require the creative development and application of new methods to large-scale genomics datasets. The post is an excellent opportunity for those with experience in statistical genetics, or individuals with a strong quantitative background.

You will play a key role in the STOP-HCV project, a recently funded MRC initiative to develop new tools to improve treatment of hepatitis C infection and to better understand the biology of related diseases. The project is collecting molecular data, including genotyping, sequencing, cellular phenotypes and biomarkers on a large patient cohort. Part of your role will be to help execute a large genomics experiment to assess and identify host genetic markers of treatment response. Using novel statistical methodology, our team will combine these data with whole-genome sequencing of the virus, in the same patients, to improve outcome prediction and to inform on key molecular interactions.

You will have a PhD with a strong quantitative component and experience of modern approaches to genetic analysis. You will need to be proficient in the use of statistical software, ideally R, and a low-level language. You should be able to work alone and collaboratively, and be able to digest and communicate scientific ideas effectively. You should enjoy visualising high-dimensional data, problem solving and drawing inferences from complex models.

This position is fixed-term for 3 years in the first instance and is funded by the Medical Research Council.

Only applications received before 12.00 midday on Monday 16 September 2013 can be considered.

spencer@well.ox.ac.uk

PennsylvaniaStateU ComputationalBiol

Statistical Genomics post-doctoral position :

Are you interested in genomics and do you have skills in Bioinformatics, Computational Biology and Statistics? The Makova lab in the Department of Biology at The Pennsylvania State University is looking to hire a post-doctoral researcher for an NSF-funded project examining regional variation in mutation rates (see our recent publication in PNAS: Kuruppumullage Don, Ananda, Chiaromonte, Makova 2013). With new sequencing technologies, multiple human genomes and their detailed annotations (e.g., ENCODE) are suddenly accessible to us. This gives us a terrific opportunity to explore previously inaccessible evolutionary processes (e.g., mutation) and other biological associations (location of genes in certain mutation states, as identified by HMMs). Such knowledge is vital in a clinical setting where disease mutations need to be evaluated. Our resources and links with medical researchers at Hershey Medical School and computational biologists from the-Galaxy team put us in a great position to address these questions.

Candidates should have experience in bioinformatics, working knowledge of statistics and should have a broad understanding of molecular biology and genetics. Familiarity with next-generation sequencing data analysis is desirable. A PhD is required.

You will be joining an established dynamic group. We are part of the Center for Medical Genomics (http://www.huck.psu.edu/center/medical-genomics) and of the Center for Comparative Genomics and Bioinformatics (http://www.bx.psu.edu/). Penn State is a vibrant scientific community with particular strengths in genomics, bioinformatics and molecular evolution. Our

location, in State College, Pennsylvania, is known for excellent schools and numerous opportunities for outdoor activities.

The starting date is flexible, with an earlier date preferred. This position is funded for one year from date of hire, with good possibility of refunding. Interested applicants should send a pdf with a CV, a statement of research interests, and contact information for three referees to Kateryna Makova at kmakova@bx.psu.edu, indicating postdoc in the subject line. Employment will require successful completion of background check(s) in accordance with University policies. Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

kmakova@bx.psu.edu

RutgersU Bioinformatician

POSTDOCTORAL RESEARCH SCIENTIST POSITION Rutgers University, New Brunswick, NJ Joint Appointment: Institute of Human Genetics and Dept. of Biochemistry and Microbiology

2-3 year Postdoctoral Research Scientist position is available. We are looking for a young scholar with experience in the area of genome analysis. In the scope of this project, we will uncover how the variation encoded in the human genome maps to the observed complex phenotypes. Specifically, we will be looking at the variation present in whole genome sequence data of matched case/control patients, as related to Tourette's syndrome and a selection of autoimmune disorders. The position will involve developing new bioinformatic approaches to (1) mine the available databases and literature for experimentally established disease genes and variants, (2) annotate functionally significant variation in coding and non-coding regions of the genome, and (3) generate testable hypotheses correlating these variomes with specific diseases.

Candidates should have a PhD in Computational Biology, Bioinformatics or Genetics (with strong background in bioinformatics). We strongly encourage applications from recent PhD graduates. Strong programming skills (at least one of: Perl, Python, or Java) are essential, as well as some familiarity with the major bioinformatics tools and databases. Experience with high performance computing, machine learning algorithms and/or whole genome data analysis is desired, but not required. Candidates coming from labs focused on studying the genetics of psychiatric or autoimmune disorders will be given preference. Applicants should be fluent in spoken and written English and should be able to communicate ideas and results to colleagues. The ability to integrate into a team is as essential as that to complete a project without constant supervision.

Interested persons should e-mail a cover letter and C.V. to: Dr. Yana Bromberg, Dept. of Biochemistry and Microbiology, Rutgers University e-mail: yana@bromberglab.org

yana@bromberglab.org

Sophia Antipolis AsexualAnimalEvolution

Context: Plant-parasitic nematodes (PPN) cause billions of damage to agriculture worldwide. Root-knot nematodes (or Meloidogyne) are the most damaging PPN. Root-knot nematode species exhibit a variety of reproductive modes from classical sexual reproduction to obligate asexual reproduction. Paradoxically asexual nematode species are able to infest more plants and have a wider global distribution.

Main Question: How an animal can evolve and adapt in the absence of sexual reproduction ?

When ?: The position is available now and must start before January 1st 2014. The position is for 30 months.

Where ?: At INRA centre in Sophia-Antipolis, between the cities of Nice and Cannes in the French Riviera. Our laboratory 'Institut Sophia Agrobiotech', is a joint institute between INRA, the University of Nice Sophia-Antipolis and CNRS. Our team 'Plant / Nematode Interactions' studies plant-parasitic nematodes and our group specifically focuses on evolutionary genomics aspects of the parasitism.

Required skills / techniques: RNA-seq data analysis, differential gene expression, comparative genomics, positive selection, evolutionary biology

More information here: http://edanchin.free.fr/-index.php/component/content/article/52-postdoc
Contact: etienne.danchin@sophia.inra.fr

Etienne G.J. Danchin

Institut National de la Recherche Agronomique

U.M.R. - Institut Sophia Agrobiotech (ISA 1355)

INRA-UNS-CNRS – 400 route des Chappes, BP 167 06903 Sophia-Antipolis Cedex – http://-www.paca.inra.fr/institut-sophia-agrobiotech Tel. +33 492 386 494 Fax. +33 492 386 587

http://edanchin.free.fr

etienne.danchin@sophia.inra.fr

StanfordU MicrobialCommunityEvolution

A postdoctoral fellow position is available in the Fukami Lab at Stanford University (www.stanford.edu/-˜fukamit/). The successful candidate will conduct NSF-funded laboratory and field research on the community assembly of nectar-inhabiting bacteria and yeasts. There will be opportunities to develop independent and collaborative research. Experience in fungal and/or bacterial molecular ecology and/or one or more of the following fields is desirable: experimental evolution, pollination biology, chemical ecology, or hummingbird ecology. Initial appointment will be for one year, with the possibility of extension for one or two additional years, contingent on performance and funding availability. Start date is preferably February 2014, but flexible. To apply, please e-mail a cover letter, CV, and the names and contact information of three references as a single pdf to Tadashi Fukami (fukamit@stanford.edu), with the subject line as "Postdoc application <your name>". Review of applications will begin on November 1, 2013, and continue until a suitable candidate is identified. Informal inquiries prior to application are welcome.

fukamit@stanford.edu

StonyBrookU TreeOfLife

Postdoctoral Position. The position is part of an award from the National Science Foundation AVATOL program (Assembling, Visualizing and Analyzing the Tree of Life) to develop Next Generation Phenomics methodologies and research products (http://-avatol.org/ngp/). This postdoc will be affiliated with the crowdsourcing component of this project. The focus of the AVATOL phenomics project is try "risky" new approaches to make morphological data collection for tree-building faster.

Campus Description: Stony Brook University has established itself as one of America's most dynamic public universities, a center of academic excellence and a leader in health education, patient care and research. Listed among the top 1 percent of all universities in the world by *Times Higher Education World University Rankings, *Stony Brook is home to more than 24,000 undergraduate, graduate and doctoral students and more than 13,500 faculty and staff, including those employed at Stony Brook Medicine, Long Island's premier academic medical center and teaching hospital. With 597 beds, Stony Brook Hospital is the region's only tertiary care center and Regional Trauma Center. The University is a member of the prestigious Association of American Universities and co-manager of nearby Brookhaven National Laboratory.

Descriptive Title: Postdoctoral Associate

REF#: HS-R-8145-13-09-S

Budget Title: same as above

Research Foundation Professional Position

Department: Anatomical Sciences

*RF Line#: *R0718000

*Grade: *E.89

Campus: Stony Brook West Campus/HSC

[image: Description: http://naples.cc.sunysb.edu/-icons/ecblank.gif] *Salary:* $38,000 - $42,000

Required Qualifications: Ph.D. in Anatomical Sciences, Paleontology, or Evolutionary Biology.

Preferred Qualifications: Prior publications in phylophenomic research (i.e. primary data collection, not meta data analysis). Knowledge of phylogenetic research methodologies and software.

Brief Description of Duties: The Postdoctoral Associate will produce a phenomic matrix addressing a phylogenetic hypothesis by generating digital images supporting homology. The matrix generated will be used to develop and refine crowdsourcing techniques for phenomic-based phylogenetic research. The incumbent will have duties for testing and reviewing software related to the Evolution Project. The selected candidate will:

- Build a phenomic matrix using MorphoBank and generate digital images to document the homology in these matrices. - Crowdsource this matrix using tools in the Evolution Project (currently under development as part

of the NSF grant). - Test, review, develop and advertise the software, this includes presenting at least one talk at a national meeting during the course of the research. - Assist with other matrices that the project is assembling for crowd sourcing. - Attend project meetings and train individuals in software related to the project when necessary.

Special Notes: This is a full time position. The Research Foundation of SUNY is a private educational corporation. Employment is subject to the Research Foundation policies and procedures, sponsor guidelines and the availability of funding. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. Internal and external search to occur simultaneously.

The selected candidate must successfully clear a background investigation.

http://www.stonybrook.edu/jobs/ *Application Procedure:* Those interested in this position should submit a Research Foundation Employment Application < http://naples.cc.sunysb.edu/Admin/-HRSForms.nsf/pub/hafrm011 >, cover letter and resume to:

Maureen O'Leary Anatomical Sciences Health Sciences Center, T-8, Room 040 Stony Brook University Stony Brook, NY 11794-8081

Maureen O'Leary <maureen.oleary@stonybrook.edu>

Switzerland TundraEvolution

Postdoc position in Switzerland on vegetation change in tundra ecosystems

The research team ?mountain ecosystems? at the WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland, is looking for a Postdoc to explore long-term vegetation changes in arctic and alpine tundra. You will analyze changes in tundra vegetation in response to climate change using data from warming experiments and long-term observations from Switzerland and world-wide tundra ecosystems. The focus of the research will be on snow-plant interactions, changes in plant phenology and vegetation composition. You will publish your results in international journals. The position is funded for the duration of 2 years and will start approx. in December 2013. A PhD in the field of biology, ecology or botany is required and you have experience in experimental field work and statistical analyses particularly in R. You can handle and analyze large and long-term data sets and you are fluent in English. You are a team player, possess good oral and written communication skills, good organizational ability and have a structured mode of working. Please apply online (see link below). Send your complete application using reference number 798 to Jasmine Zimmermann, Human Resources WSL/SLF. Christian Rixen, phone +41 (0)81 417 02 14 or e-mail rixen@slf.ch, will be happy to answer any questions or offer further information. To be assured of full consideration, please apply by October 30, 2013. For more information about the project see: http://www.slf.ch/ueber/-organisation/oekologie/gebirgsoekosysteme/projekte/-tundra/index_EN http://www.geog.ubc.ca/itex/ To apply online, press the ?apply now? button at the end of the job ad at http://internet1.refline.ch/-273855/0317/++publications++/1/index.html
Dr. Christian Rixen Community Ecology WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH- 7260 Davos tel ++41 81 417 02 14 fax ++41 81 417 01 10 e-mail: rixen@slf.ch http://www.wsl.ch/personal_homepages/rixen/-
http://www.slf.ch Master's student opportunities: http://www.wsl.ch/personal_homepages/rixen/-Masterthesis_EN rixen@slf.ch

TexasTechU GenomeEvolution

POSTDOCTORAL RESEARCH SCIENTIST POSITION Texas Tech University, Lubbock TX Department of Biological Sciences

The laboratory of David Ray is seeing a postdoctoral associate in the areas of genome analysis and bioinformatics.

The successful candidate will perform a variety of routine and specialized duties in the laboratory. Duties will require knowledge of the principles of bioinformatics and genome analysis including the analysis of whole genome shotgun (WGS) sequence data and analysis of 454 and Illumina next-generation sequence data. Current projects focus on transposable elements, small RNAs, and whole genome analyses.

Candidates should have demonstrated research experience in bioinformatics and preference will be given to those with experience working with WGS data, next-generation sequence data, small RNAs and transposable element sequences. Duties include the creation

of custom scripts (Perl, Python, C++, etc.) to analyze large sequence databases from a variety of taxa including reptiles, mammals, and insects. The successful candidate will also interact with undergraduate and graduate students. Note that this position is a three year, time-limited position that may be renewable as dependent on continued grant funding.

Department Profile The Department of Biological Sciences is a comprehensive department with an academic, research and service mission. The Department offers B.S., M.S., and Ph.D. degrees from within the College of Arts and Sciences, and currently advises 880 undergraduate and 120 graduate students.

Minimum Qualifications: Ph.D. degree with major course work in curriculum appropriate for the field of assignment - bioinformatics, molecular biology, etc.

Preferred Qualifications: Experience with genome annotation techniques, familiarity with Python and/or Perl programming languages, and intergenomic analysis.

Instructions for Applying Please submit a letter of application, curriculum vitae, and names of three references to:

Dr. David A. Ray david.a.ray@ttu.edu 806-742-3722 ext. 253

Screening will begin immediately and will continue until the position is filled.

Texas Tech University is an affirmative action/equal opportunity employer

David A. Ray

Associate Professor Department of Biological Sciences Texas Tech University Phone: 806-742-3722 x253 http://www.crocoduck.bch.msstate.edu http://-www.crocgenomes.org/ david.4.ray@gmail.com

Even the best of us have bad days. "I am very poorly today and very stupid and hate everyone and everything." - Charles Darwin - Oct. 1, 1861

david.4.ray@gmail.com

TulaneU PopulationGenetics UrbanRodents

POSTDOCTORAL POSITION IN THE POPULATION ECOLOGY / GENETICS OF URBAN RODENTS AND EPIDEMIOLOGY OF RODENT-BORN DISEASE

TULANE UNIVERSITY

We are seeking a postdoctoral associate to join an NSF-funded, Coupled Natural and Human (CNH) systems project to assist with research on Norway rats and epidemiology of rodent-born pathogens in New Orleans, Louisiana, USA.

The postdoc will develop a computational metapopulation model of rodents in New Orleans. The population model will synthesize information and data from GIS analyses, population genetics, trap-based surveys, disease prevalence, vegetation surveys, and sociological surveys. The model will be used to assess ecological and human-health outcomes of alternative control scenarios reflecting risk perceptions, rodent abundance, and habitat suitability across the New Orleans study region.

The expected outcomes of the project include (1) modeling the distribution and demographics of human exposure risk according to habitat, landscape and socioeconomic factors; and (2) determining the likelihood of containing and controlling transmission according to competing intervention targets and strategies; and (3) determining the extent to which interventions give rise to feedbacks between ecological and societal diversity.

The postdoctoral researcher also may be expected to serve as a coordinator for the project, working with an interdisciplinary team of scientists including public health professionals, sociologists, geographers, ecologists, geneticists, and mathematicians.

The researcher will be mentored by Dr. Caz Taylor (Department of Ecology and Evolutionary Biology and Center for Computational Science, Tulane University) and Dr. Michael Blum (Department of Ecology and Evolutionary Biology and Center for Bioenvironmental Research, Tulane University).

In addition to contributing to the collaborative research project described above, the postdoctoral researcher will develop his/her own research questions and will be expected to present results at scientific conferences and publish in peer-reviewed journals.

Candidates are being sought with: (1) Strong computational and programming skills, prefer experience in R, and/or matlab; (2) Demonstrated research excellence; (3) Strong oral and written communication skills. Preference will be given to applicants whose research interests and expertise complement the research project but outstanding applicants looking to broaden their field of interest will also be seriously considered. A PhD in ecology, population genetics, epidemiology, mathematics, or a related field is required.

The position is available immediately, though the start date is flexible. Funding is available for three years. An initial appointment will be for two years with an extension contingent on performance. Compensation will be ?$40,000 per year, with starting salary commensurate with experience. A standard benefits package will be available.

Tulane University is an equal employment opportunity/affirmative action employer committed to excellence through diversity. All eligible candidates are invited to apply for position vacancies as appropriate.

To apply, email a cover letter, a statement of research interests and experience, a CV, and the names and contact information of three references to:

Ms. Shelley Meaux Department Administrator Tulane/Xavier Center for Bioenvironmental Research (CBR) 107B Richardson Building Tulane University New Orleans, LA 70118 smeaux@tulane.edu

Questions about the position or project should be directed to Dr. Caz Taylor (caz@tulane.edu) and/or Dr. Michael Blum (mjblum@tulane.edu).

Applications will be reviewed beginning October 15 2013.

< http://www.tulane.edu/%7Emjblum >

"Blum, Michael J" <mjblum@tulane.edu>

UArizona ComputationalEvolSystemsBiol

Postdoctoral Researcher, Gutenkunst group, University of Arizona

A postdoctoral research associate position is available in theGutenkunst group, in the Department of Molecular and Cellular Biology at the University of Arizona. The Gutenkunst group integrates computational population genomics and systems biology to understand evolution, with focus on humans. For more information, see http://gutengroup.mcb.arizona.edu or contact Dr. Ryan Gutenkunst at rgutenk@email.arizona.edu.

Mechanistically-detailed computational models of protein networks offer a new and powerful window onto the phenotype-genotype map. We seek a quantitatively-skilled researcher to leverage such models to understand network evolution. Potential projects include modeling the effect of protein domain structure on network evolution and developing statistical means for inferring the distribution of mutation effects on network dynamics. The applicant's specific project will be designed in collaboration between the applicant and Dr. Gutenkunst.

Applicants should have a Ph.D. in biology, a physical or computational science, or mathematics. Applicants should also have prior computational experience and be motivated, creative, and collegial. Experience with network simulations is advantageous. The University of Arizona has great strength in systems and quantitative biology, offering potential interactions with Drs. Andrew Capaldi, Joe Watkins, Joanna Masel, and others. Computational resources are similarly excellent. The campus is highly interdisciplinary and very collegial. The University of Arizona is an EEO/AA - M/W/D/V Employer.

At 2,500 feet above sea level, culturally diverse Tucson, Arizona is nestled among five mountain ranges in the beautiful Sonoran Desert and is surrounded by Saguaro National Park. Housing is affordable, quality of life is high, and outdoor recreation opportunities include the southernmost ski area in the United States. The area receives over 350 days of sunshine per year and enjoys average high/low temperatures of 82/54 degrees F.

Applications should include a C.V., cover letter, and contact information for three references. Please submit applications through http://www.uacareertrack.com, job number 53438. Application review begins immediately and will continue until the position is filled.

Ryan Gutenkunst Assistant Professor Molecular and Cellular Biology University of Arizona phone: (520) 626-0569 http://gutengroup.mcb.arizona.edu rgutenk@email.arizona.edu

UArizona ComputationalPopulationGenomics

Postdoctoral Researcher, Gutenkunst group, University of Arizona

A postdoctoral research associate positions are available in the Gutenkunst group, in the Department of Molecular and Cellular Biology at the University of Arizona. The Gutenkunst group integrates computational population genomics and systems biology to understand evolution, with a focus on humans. For more information, see http://gutengroup.mcb.arizona.edu or contact Dr. Ryan

Gutenkunst at rgutenk@email.arizona.edu.

Emerging whole-genome data offer both great opportunities and great challenges for understanding the genetic history of natural populations. We seek a quantitatively-skilled researcher to develop and apply novel computational methods for inferring demographic history and natural selection from population-genomic data. Potential projects include modeling selection on amino-acid altering mutations or building new computational tools incorporating linkage into demographic inference. The applicant's specific project will be designed in collaboration between the applicant and Dr. Gutenkunst.

Applicants should have a Ph.D. in biology, a physical or computational science, or mathematics. Applicants should also have prior computational experience and be motivated, creative, and collegial. Experience with genome-scale data is advantageous. The University of Arizona has great strength in population genetics and quantitative biology, offering potential interactions with Drs. Michael Hammer, Joe Watkins, Joanna Masel, and others. Computational resources are similarly excellent. The campus is highly interdisciplinary and very collegial. The University of Arizona is an EEO/AA - M/W/D/V Employer.

At 2,500 feet above sea level, culturally diverse Tucson, Arizona is nestled among five mountain ranges in the beautiful Sonoran Desert and is surrounded by Saguaro National Park. Housing is affordable, quality of life is high, and outdoor recreation opportunities include the southernmost ski area in the United States. The area receives over 350 days of sunshine per year and enjoys average high/low temperatures of 82/54 degrees F.

Applications should include a C.V., cover letter, and contact information for three references. Please submit applications through http://www.uacareertrack.com, job number 53438. Application review begins immediately and will continue until the position is filled.

Ryan Gutenkunst Assistant Professor Molecular and Cellular Biology University of Arizona phone: (520) 626-0569 http://gutengroup.mcb.arizona.edu rgutenk@email.arizona.edu

UArizona ConvergentEvolution

Functional genetics of convergent evolution

A postdoctoral position to study convergent evolution of insect resistance to plant toxins is available in the laboratory of Dr. Noah Whiteman at Department of Ecology and Evolutionary Biology, University of Arizona. The postdoctoral fellow will test the broad hypothesis that antagonistic pleiotropy constrains adaptive evolution in toxin resistance genes that are present as single copies leading to a pattern of convergent molecular evolution, a constraint that is relaxed after gene duplication events. To test this hypothesis the postdoctoral researcher will transform *D. melanogaster* with toxin resistance gene constructs from several insect species and then conduct toxin-feeding and fitness trials. This position is funded by a grant from the Templeton Foundation for up to three years.

Prospective applicants should hold a Ph.D. or expect one by January 2014 and have extensive experience with the biology of *D. melanogaster*. The position is ideally suited for a *Drosophila *biologist who would like to gain a skill set in evolutionary biology and functional genetics. Creative latitude will be given to the postdoctoral scholar to push the project in ways that leverage their unique skills and interests. There will be many opportunities to intellectually participate in related projects in insect comparative, population and functional genomics taking place in the Whiteman Laboratory.

This project is part of a larger, three-way collaboration between the laboratories of Dr. Noah Whiteman (University of Arizona), Dr. Anurag Agrawal (Cornell University) and Dr. Susanne Dobler (University of Hamburg) on the ecological, evolutionary and functional bases of convergent evolution of toxin resistance in insects. The postdoctoral scholar will have the opportunity to: travel to a yearly meeting of the three collaborative research groups and to other scientific meetings, help lead the writing of manuscripts, co-mentor students and help supervise a technical assistant. The postdoctoral scholar will also have the opportunity to engage with the large and vibrant community of biologists at the University of Arizona. This includes The Center for Insect Science, which has a long-running, inter-departmental postdoctoral training program in insect biology.

Quality of life in Tucson is high. Tucson is situated in southern Arizona and has a population size of about 500,000. Southern Arizona is extremely progressive and Tucson has a vibrant downtown connected to the University of Arizona by a new modern streetcar system. The University of Arizona, founded before Arizona became a state, sits on a beautiful campus that includes the oldest managed green-space in Arizona, containing native vegetation and olive and citrus groves. Tucson is surrounded by the relatively wet Sonoran Desert,

which is home to 300 species of plants and four stunning mountain ranges within a 45-minute drive from the city (peaks above 9,000 feet on two of them) that are part of the Madrean Archipelago (Sky Islands). The University is connected to surrounding neighborhoods by special streets designated as bicycle-only. Thus, many University employees and students bicycle to campus.

To apply for this position, please send via an email attachment a cover letter, CV, pdf copies of publications, and contact information for three references to Dr. Whiteman at whiteman@email.arizona.edu by October 15, 2013. Informal inquiries are welcome.

Best wishes, Noah

Noah K. Whiteman, Ph.D. Assistant Professor Department of Ecology & Evolutionary Biology The University of Arizona 326 BioSciences West, Tucson, AZ 85721 office: 520-626-3950, lab: 520-626-9315 email: whiteman@email.arizona.edu web: www.noahwhiteman.org "Noah K. Whiteman" <whiteman@email.arizona.edu>

UBath EvolutionaryPaleobiology

Ammonoid disparity, ontogeny and phylogeny

We are keen to appoint an exceptionally motivated postdoctoral researcher to work on a 30-month, NERC funded project investigating the morphological and ontogenetic disparity of ammonoids across mass extinction boundaries. The successful candidate will have experience of quantifying morphological variety (disparity) using a range of morphometric and allied techniques, as well as (ideally) a record of publication in this area. They will have excellent coding skills (R an advantage), with the ability to work with existing scripts as well as to generate new ones. The project will entail numerous museum visits to digitise specimen data, as well as to refine objectives with our project partners. A related appointment in Mechanical Engineering (Bath) will virtually and physically model the hydrodynamics of ammonoids, and allow us to relate morphospaces and ontogenetic spaces to locomotory efficiency, stability, manoeuvrability and speed. Good communication skills and the ability to work efficiently as part of a multidisciplinary team are therefore essential. The appointee in biology will also be responsible for collating and coding stratigraphic and phylogenetic data.

The position is fixed-term and available to start not later than 31 December 2013 until 31 May 2016.

Closing Date: Wednesday 25 September 2013 Interview Date: To be confirmed Reference: VH1889

Informal enquiries may be directed to Dr Matthew Wills, tel: 01225 323504 or email: m.a.wills@bath.ac.uk.

Applications are accepted only through the University of Bath online system at:

http://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-VH1889 srg49@cam.ac.uk

UCalifornia Davis ForestGenetics

EFFECTIVE: September 26, 2013

DEADLINE: Review of applications will begin immediately and continue until the position is filled.

POSTDOCTORAL POSITION IN FOREST ECOLOGICAL GENETICS–The Department of Evolution and Ecology at UC Davis invites applications for a postdoctoral research position in ecological genetics broadly defined to include the study of the impacts of climate change on forest trees. We particularly encourage applications from candidates who have recently completed, or will soon complete, their PhD.

The position term is through September 2014, with possibility of extension, and can begin immediately. This position is covered by a collective bargaining unit. It has an annual starting salary of $44,340 plus benefits. The postdoc will work with Johanna Schmitt (Department of Evolution and Ecology) and Jessica Wright (USDA Forest Service) to collect and analyze provenance test data with a goal of informing ecological restoration projects- particularly in light of climate change with a focus on the Tahoe Basin. We are seeking an individual with training in evolutionary ecology and/or forest genetics, who can incorporate climate data into innovative new models to build a more complete picture of tree responses to novel climates. The postdoc will be responsible for data analysis and manuscript preparation. In addition, s/he will be expected to interact and work with Forest Service resource managers who are the ones who will be the primary users of their analyses. The postdoc will also participate in organizing a workshop for Land Managers on the Tahoe Basin to help disseminate their results. Information about our research programs can be found at http://www.fs.fed.us/psw/programs/-cb/staff/jwright/ and http://plantgxe.ucdavis.edu/ .

TO APPLY: Interested candidates should email a cover letter, CV, and a short (1-2 page) description of research interests and accomplishments to jessicawwright@fs.fed.us, and arrange for 3 letters of recommendation to be sent to the same email address. E-mail questions to jessicawwright@fs.fed.us. To assure receipt, please include "Forest Genetics Postdoc" in the subject line of all correspondence. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

johanna_schmitt@brown.edu

UCalifornia SanFrancisco CraniofacialEvoDevo

We are seeking applications for a Post-Doctoral Scholar to join the Oral and Craniofacial Science Program at the University of California San Francisco. The applicants should be recent PhD awardees who are highly motivated and energetic. The successful candidate will be strongly encouraged to develop a mentored research project that will lead to independent funding. Applicants should have a strong background in evolutionary-developmental biology, to work on a project that addresses mechanisms that generate variation. Please submit CV and names of at least 2 references to:

Ralph Marcucio, PhD and Pam DenBesten, DDS c/o Ralph Marcucio

E-mail: Ralph.marcucio@ucsf.edu

Ralph Marcucio, Ph.D. Associate Professor UCSF, SFGH, OTI

Ralph.Marcucio@ucsf.edu

UCambridge EvolutionaryBiol

St John's College Research Fellowships

These fellowships have just been advertised - although they are advertised in all fields, there is a possibility for dedicated funding for an evolutionary biologist in this years round. Cambridge is a great place to study evolutionary biology. Further information on relevant research groups can be found at the Cambridge Evolutionary Genetics group: http://-/heliconius.zoo.cam.ac.uk/camevolgen/ There are also strengths in the study of behaviour and human evolution among other topics.

Applications and more details available here: http://-/research-fellowships.joh.cam.ac.uk/rf Some details from the advertisement: - Applications are invited for Research Fellowships intended for outstanding researchers early in their careers. The Fellowships offer an opportunity to carry out independent research in a stimulating and supportive academic environment. Applications will be accepted from any graduate of a university within or outside the United Kingdom. All candidates should note that these Research Fellowships are extremely competitive and in 2013 less than one candidate in 100 was successful.

- Successful candidates are expected to be either graduate students, probably in the latter stages of their research leading to a PhD Degree, or post-doctoral researchers who have been awarded their PhD Degree after 1 October 2012. Candidates who do not fulfil these criteria are unlikely to be considered.

- Candidates holding a fellowship or other post-doctoral stipend awarded by a Research Council or other similar body may apply.

Please contact me if you have questions

Chris Jiggins Reader in Evolution and Biological Diversity Department of Zoology University of Cambridge Tel: (+44)(0)1223 769021 http://www.heliconius.org/ http://heliconius.zoo.cam.ac.uk/ Fellow of St John's College, Director of Studies in Biological Sciences Cambridge, UK. CB2 1TP

cj107@hermes.cam.ac.uk

UCopenhagen EvolutionPlantDefence

Two postdocs on structure-activity relationships and evolution of a chemical plant defense at Department of Plant and Environmental Sciences, University of Copenhagen

In a multidisciplinary project, we have two postdoc positions available for two and a half year each to study the relationship between saponin chemical structures

and their biological activity, ecological function, diversity and evolution.

Job description Triterpenoid saponins constitute a structurally diverse class of natural plant defense compounds, which are wide spread across the plant kingdom, and appear to have evolved recurrently through evolution. Specifically, triterpenoid saponins in the wild crucifer species Barbarea vulgaris are responsible for natural resistance towards a devastating agricultural pest, the diamond back moth (DBM), and other insect herbivores. The DBM is the most serious pest of crucifer crops worldwide, and discovery of new sources of resistance has great potential in plant protection. Despite their potential for plant protection in production, we know surprisingly little about which saponin structures are toxic to certain herbivores, and which are not. In a multidisciplinary project, we have two postdoc positions available to study the relationship between saponin chemical structures and their biological activity, ecological function, diversity and evolution. A PhD student and a postdoc working within plant biochemistry and plant metabolomics, respectively, will also be employed on the project.

One postdoc (no 1) will identify and analyse enzyme encoding genes involved in the triterpenoid saponin pathway, and metabolically engineer novel saponins in model plants, transiently in tobacco and stably in Arabidopsis thaliana, by expressing combinations of biosynthetic genes from a range of plant species to produce known and new-to-nature triterpenoid saponin genes. Based on this, Structure- Activity-Relationships (SAR) will be addressed using e.g bioassays.

The other postdoc (no 2) will explore natural variation in saponins in Barbarea vulgaris and related species, with special focus on interspecific hybrids, and study the effect of these on selected insect herbivores. Plants with novel saponin structures and resistance will be analysed for associated gene and enzyme-composition.

For both positions, a palette of diverse saponin structures will be tested in bioassays and experiments with specialist and generalist insect herbivores, as well as in insect cell lines, to decode which saponin structures have a given specific biological activity and function. Some of the bioassays will be done in collaboration with our international collaborators.

The postdoc projects are to be carried out in an internationally competitive cross-disciplinary research team, including ecological, evolutionary, genetic, molecular and biochemical aspects of plant resistance. The research environment is stimulating and international with English being the working language. Short research stays within laboratories of our international collaborators outside Denmark are envisioned. The research environment is financially supported by funding from the EU and from the Danish Council for Independent Research.

Your key tasks as postdoc fellows at the Faculty of Science are to develop the research project using your knowledge within plant biology, ecology and evolution, and/or biotechnology, and by applying the appropriate state-of-the-art technologies and innovative approaches to advance your work. Dedication and the ability to collaborate and profit from interactions with other members of the research group and affiliated research groups are additional success criteria.

Qualification requirements For both postdocs

.Documented research qualifications such as a PhD or equivalent. .Fluency in English. UCPH generally encourages employees who do not speak Danish to acquire a working knowledge of the language. .Broad curiosity in biological questions and open-mindedness to cross-disciplinary research. .Good interpersonal skills and ability to collaborate.

Requirements to postdoc 1

.Education in biochemistry and molecular biology, or equivalent. .Experience with metabolite and gene expression analysis. .Experience with molecular biology and genetic engineering. .Experience with bioinformatics. .Preferentially knowledge of, or experience in organic structure elucidation.

Requirements to postdoc 2

.Education in biology, or equivalent. .Specialization in chemical ecology and evolution. .Experience with metabolite analytical methods and data analysis. .Experience with experimental studies of plant-herbivore interactions. .Broad knowledge in ecological aspects of plant-herbivore interactions.

Inquiries about the positions can be made to Professor Søren Bak (postdoc 1) bak@life.ku.dk

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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

UExeter DiseaseEvolution

Disease epidemiological/evolutionary modelling posi-

tions are available in the group of Mike Boots at the University of Exeter

Job title Associate Research Fellow or Research Fellow

Job reference P45595

Application closing date 23/09/2013

Location Cornwall

Salary Salary in the range of £24,766 to £32,267 per annum depending on qualifications and experience.

Package Generous holiday allowances, flexible working, pension scheme and relocation package (if applicable)

The College of Life and Environmental Sciences wishes to recruit up to three full time Associate Research Fellows or Research Fellows to join the group of Professor Mike Boots, working in collaboration with Angus Buckling, Britt Koskella (Exeter), Andrew White (Heriot Watt) Jaap de Roode, and Berry Brosi (Emory). These NERC and BBSRC funded posts are available for a minimum period of 12 months (up to 36 months) and will be based at the Penryn Campus in Cornwall.

The successful applicants will develop epidemiological, ecological and evolutionary mathematical and computer models of infectious disease interactions in a number of pure and applied contexts.

Applicants will be able to develop ecological or evolutionary models as appropriate using current and potentially novel frameworks. Knowledge of ecological, epidemiological, eco-evolutionary, quantitative or population genetic modelling techniques are essential while experience in infectious disease modelling is desirable.

Applicants will possess a relevant PhD and be able to demonstrate sufficient knowledge in the discipline and of research methods and techniques to work within established research programmes.

For further information please contact Mike Boots, e-mail M.Boots@exeter.ac.uk .

We welcome applications from candidates interested in working part-time hours or job-sharing arrangements.

For appointment at Associate Research Fellow level, the starting salary will be from GBP 24,766 to GBP 27,854 on Grade E, depending on qualifications and experience. For appointment at Research Fellow level, the starting salary will be GBP 32,267 on Grade F. Appointment at Grade F will be subject to additional criteria and role responsibilities as defined in the job description.

To view the Job Description and Person Specification document please go to https://-/jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/-run/ETREC107GF.open?VACANCY_ID=-8797198U1i&WVID=3817591jNg&LANG=USA
Interviews are expected to take place in the week of 30th September.

The College is working towards department Silver Athena SWAN awards as a commitment to providing equality of opportunity and advancing the representation of women in STEM/M subjects: science, technology, engineering, mathematics and medicine.

The University of Exeter is an equal opportunity employer which is 'Positive about Disabled People'. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

HOW TO APPLY FOR THIS POSITION:

Please send your CV, covering letter and the details of three referees, along with a completed application and equal opportunities form to Mike Boots M.Boots@exeter.ac.uk quoting the reference number P45595 in any correspondence.

To download the application and equal opportunities form please follow the below links;

http://www.admin.ex.ac.uk/personnel/jobs/-app_form.rtf http://www.admin.ex.ac.uk/personnel/-jobs/EO_form.rtf Mike Boots Professor of Disease Biology Biosciences College of Life and Environmental Sciences University of Exeter Cornwall Campus Penryn TR10 9EZ

Tel: (+44) 1326 25 5735 m.boots@exeter.ac.uk

Mike Boots <M.Boots@exeter.ac.uk>

UFedDePernambuco Brazil ConservationGenetics

The PPGBA - Graduate Program in Animal Biology , Zoology Department, Universidade Federal de Pernambuco, Northeastern Brazilian coast - will be selecting 1 PostDoc Fellow (PNPD Capes) to develop scientific and educational activities with the PPGBA .

The scholarship will be valid for 12 to 60 months . The scholarship amount is R$3,800.00 (USD 1,900.00) monthly and a grant of R$ 36,000.00 (USD 18,000.00). Note that FACEPE - Foundation for Science and Technology of the State of Pernambuco - can supplement the scholarship in R$ 1,200.00 (USD 600.00) .

Candidates should express their interest to participate in the selection by presenting a work plan, stating the research project and discipline plan with simplified menu to be offered in PPGBA UNTIL 10/16/2013. It is still offered to the selected candidate the possibility of co-supervision of Master's Dissertation and/or Doctorate Thesis in the area of the Supervisor.

Thus, the Laboratory of Evolutiona ry and Environmental Genomics, led by Dr. Rodrigo A. Torres has full interest in hosting an associate researcher with remarkable scientific production. It is preferred but not mandatory application from Brazilians. It is offered excellent working infrastructure in the areas of Conservation Genetics, Molecular Systematics and Conservation of species and ecosystems through analysis of genomic damage. Additionally, our team is now composed of four PhD students, 1 Master, and ICs students, whose participation in the projects may also be assessed by the expertise of the researcher in qualifying the ongoing projects. Our lab expects candidates with at least 5 papers accepted/published at the qualis B1 or higher in the area of BIODIVERSITY-CAPES . For details see the WebQualis (http://-qualis.capes.gov.br/ webqualis/publico/ pesquisaPublicaClassificacao.se am?conversationPropagation$\frac{3}{4}$g in)

More information by email rodrigotorres@ufpe.br . Sincerely yours,

Rodrigo A. Torres - CNPq PQ 2 Laboratory of Evolutionary and Environmental Genomics Department of Zoology, UFPE

rodrigotorres@ufpe.br

UGeorgia SavannahRiverEcologyLab AmphibianPop

The Savannah River Ecology Lab (SREL) at the University of Georgia is soliciting applications for a Postdoctoral Research Associate in Population Modeling, with a particular emphasis in amphibian population dynamics and ecotoxicology. The position will focus on evaluation of multiple scenarios of contaminant exposure to pond-breeding amphibians and examining population viability in the face of contaminant effects on vital rates and migration probabilities. To estimate demographic parameters we will use historical data from long-term studies at Carolina Bays on the Savannah River Site (including Rainbow Bay and Ginger?s Bay). Exotoxicology data will come from recent and current studies investigating the impact of metal exposure on embryonic, larval, postmetamorphic, and adult amphibians. The postdoc may also participate in ongoing field studies at Rainbow Bay and current ecotoxicology studies. Numerous opportunities exist to assist with other ongoing studies at SREL and to initiate side projects.

Qualifications: A Ph.D. in ecology, evolution, or related field is required. Preference will be given to applicants possessing strong quantitative skills with demonstrated proficiency in population modeling. Knowledge and experience with amphibians and ecotoxicology is preferable. The postdoc is expected to assist with training graduate and undergraduate students. The successful applicant is expected to demonstrate commitment to timely completion of deliverables, publication of results in peer-reviewed outlets, and presentation of results at scientific conferences. Applications will be reviewed starting September 6th and will continue until a suitable candidate has been identified. Current funding is available for 1 year, with the possibility of extension pending renewal of funding and satisfactory performance. Salary will be $35,000 per year plus benefits.

To apply, please send a 1) cover letter summarizing you qualifications for and interest in the position, 2) a CV, and 3) names and contact information for three references to Stacey Lance: lance@srel.uga.edu.

lancestacey@gmail.com

UHeidelberg MicrobiomeBioinformatics

In the group of Prof. Alexander Dalpke, Dept. of Infectious Diseases, University Heidelberg, Germany, a PostDoc position is available from 01/01/2014, funded for 2 years by the German Center for Lung Diseases. The project centers on microbiome analysis of the human airways. Candidates must hold a PhD and should have specific knowledge in microbiome analysis using next generation sequencing, medical microbiology and bioinformatics. They should have an interest in diagnostic questions in medical microbiology. Independent and self-reliant work is expected. The lab offers full technical equipment allowing state-of-the art microbiology. We are an interdisciplinary, highly motivated team working in the field of infec-

tion&immunity. Please send your application as one pdf file to :alexander.dalpke@med.uni-heidelberg.

Prof. Dr. Alexander Dalpke Department of Infectious Diseases Medical Microbiology and Hygiene University of Heidelberg Im Neuenheimer Feld 324 69120 Heidelberg Germany Phone: +49-6221-56 38173

www.klinikum.uni-heidelberg.de/Dalpke-lab
Alexander.Dalpke@med.uni-heidelberg.de

UInnsbruck Bioinformatics

PostDoc: UInnsbruck.Bioinformatics

MOLECULAR ECOLOGY, INSTITUTE OF ECOLOGY, UNIVERSITY OF INNSBRUCK

PostDoc position

We seek to hire a PostDoc with training in bioinformatics. The position is a 36-months position at the Molecular Ecology group of the Institute of Ecology, starting from 1 March 2014. Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at: http://www.uibk.ac.at/ecology/forschung/-molecular_ecology.html.en. The successful candidate will participate in the next-generation sequencing of Alpine insects.

Responsibilities

1. de-novo assembly and annotation of ant and Drosophila transcriptomes and genomes, using mainly Illumina data

2. analysis of genome sequences of pooled individuals, including search for selection signatures

3. provision of advice / training to users in analysing high-throughput sequencing data and participation in other bioinformatics tasks as need arises in the group

4. participation in manuscript writing

5. participation in preparing grant applications

6. contact and collaboration with a range of scientists and laboratory technicians at the Faculty of Biology in Innsbruck, at other Austrian research facilities, and internationally

Selection criteria

A. PhD degree in the life sciences

B. published research experience in bioinformatics, especially in the de-novo assembly and annotation of genomes using high-throughput sequencing data

C. excellent skills in the installation / maintenance of Linux systems for bioinformatic purposes

D. proficiency in Biopython, R, scripting languages (e.g. awk, Perl)

E. experience in the use of relevant software packages for transcriptome and genome analysis (e.g. Trinity, Mira, SOAPdenovo, SAMtools)

F. ability to work as part of a multi-disciplinary team

G. ability to work independently

H. very good knowledge of English

Salary

The annual gross salary is Euro 47,765.20. The contract includes health insurance and 5 weeks of holidays annually.

How to apply

To apply, please submit by E-mail to <birgit.schlick-steiner@uibk.ac.at>: a cover letter, systematic point-by-point replies as to your readiness for the responsibilities and how you meet the selection criteria, brief statement of research interests, curriculum vitae, and complete list of publications. Arrange for at least one letter of recommendation to be sent to <birgit.schlick-steiner@uibk.ac.at>. Also, send three possible dates/hours UTC for skype interviews between 25 September and 16 October 2013.

Applications must be written in English. The deadline for receipt of all applications is 11 October 2013. Our final decision will be announced to all applicants on 18 October 2013 the latest.

The University of Innsbruck is striving to increase the percentage of female employees and therefore invites qualified women to apply. In the case of equivalent qualifications, women will be given preference. An offer of employment is contingent on a satisfactory pre-employment background check.

The research institution and its environment

Detailed information about the Molecular Ecology group can be found at http://www.uibk.ac.at/-ecology/forschung/molecular_ecology.html.en. The University of Innsbruck has a long-standing and internationally renowned tradition in life sciences and offers a vibrant research atmosphere. It has 27,000 students and 4,000 staff members. Innsbruck is situated in the Alps and very close to Switzerland, Germany and Italy; scenery and outdoor recreation are fantastic.

More information needed?

For more information, please contact: Birgit Schlick-Steiner <birgit.schlick-steiner@uibk.ac.at>

Birgit C. Schlick-Steiner Professor of Molecular Ecology Institute of Ecology University of Innsbruck Technikerstr. 25 6020 Innsbruck, Austria

Phone: +43 512 507-51750 Fax: +43 512 507-51799

http://www.uibk.ac.at/ecology/forschung/-molecular_ecology.html.en Birgit.Schlick-Steiner@uibk.ac.at

ULausanne PhD EvolutionOfSexChromosomes

Postdoc and PhD positions: Evolution of sex chromosomes

Several postdoc, bioinformatician and PhD positions are available in a collaborative project on the evolution of sex chromosomes in plants and animals. The project is a funded by a Sinergia grant from the Swiss National Science Foundation and brings together the labs of Mark Kirkpatrick (Austin, Texas), Nicolas Perrin, and John Pannell (Lausanne, Switzerland). We are studying the evolutionary genomics in plant and animal systems that have largely recombining sex chromosomes. In contrast to model systems such as mammals and flies, these sex chromosomes are highly dynamic parts of the genome. Our project will address questions such as: how does recombination evolve, what drives the rapid turnover in genetic sex determining systems, and what role does sex-antagonistic selection play in genome evolution?

We are looking for researchers with strong backgrounds in evolutionary genetics and/or bioinformatics. The project will involve tight collaboration between theory and modelling (conducted principally in the Kirkpatrick lab in Austin) and testing of the models using amphibian (Perrin lab in Lausanne) and plant models (Pannell lab in Lausanne). The collaboration will involve travel between labs, and the empirical work in Lausanne will be conducted by researchers working side-by-side in groups interested broadly in the evolution of sexual systems, sex allocation, sexual dimorphism and sex chromosomes. The theoretical component will involve both analytical and simulation modelling. The empirical components will involve field work, crosses, the building of genetic linkage maps, and the analysis of molecular and genomic variation produced by NextGen sequencing of multiple genomes and transcriptomes.

The project is funded for three years. We hope to start empirical work by January, 2014. Informal enquiries about empirical parts of the project can be directed to Nicolas Perrin (nicolas.perrin@unil.ch) and John Pannell (john.pannell@unil.ch), and about modelling and statistical parts to Mark Kirkpatrick (kirkp@mail.utexas.edu). Applications can be sent by email to one of the principal investigators and should include a detailed motivation letter, a curriculum vitae, and the names and addresses of two referees.

Full consideration will be given to applications received by the 31st October.

John Pannell Department of Ecology and Evolution Biophore Building University of Lausanne CH-1015 Lausanne Switzerland

Phone: + 41 (0) 21 692 4170 Fax: + 41 (0) 21 692 4265 web: http://www.unil.ch/dee/page86963_en.html John Pannell <John.Pannell@unil.ch>

UOulu PDF PhD EvolutionaryGenomics

At the University of Oulu, Finland, a Ph.D. position (4 years) and a post doctoral position (2 years) are available in the project "Genetical and Statistical Evolutionary Genomics: Analysis of Adaptive Phenotypic Variation" (http://www.oulu.fi/-biocenter/groups/savolainen-sillanpaa)

One of the positions will be with emphasis on genomic analysis of local adaptation in Arabidopsis lyrata or Pinus sylvestris), the other one in genetical statistics, especially development of efficient and practical statistical methods for phenotype prediction in genomic models under small and noisy data sets. The positions are funded by the Biocenter Oulu http://www.oulu.fi/biocenter/, an umbrella organization of biosciences at the University of Oulu. For more information on the genetics of adaptation research, please see https://wiki.oulu.fi/display/PGG/-Genetic+basis+of+plant+adaptation+and+speciation for statistics research, see www.rni.helsinki.fi/-~ mjs/ For further information, please be in touch with Outi.Savolainen@oulu.fi (genetics) or Mikko.Sillanpää@oulu.fi (statistics).

Please send application for the Ph.d. student position as described at http://www.oulu.fi/biocenter/-open-call-bco-dp, and a single pdf for post doc position, including CV, list of publications, names of three persons from whom letters of recommendation can be asked, and a statement of research interest, to kirjaamo@oulu.fi with a copy to outi.savolainen@oulu.fi and mikko.sillanpaa@oulu.fi

Outi Savolainen Department of Biology and Biocenter Oulu FIN-90014 University of Oulu +358(8)5531782 +358405168900 outi.savolainen@oulu.fi

Outi Savolainen <Outi.Savolainen@oulu.fi>

UOxford StatisticalGenomics

The position of Postdoctoral Scientist is available in Dr Danny Wilson's group at the University of Oxford to lead research on the Wellcome Trust and Royal Society funded project "Statistical Methods for Whole Genome Phenotype Mapping in Bacterial Populations".

Bacteria cause disease throughout the world. Different strains vary in disease severity, but the genetic variants responsible remain largely undiscovered. Recent breakthroughs in whole genome sequencing provide new opportunities for discovery, but the lack of statistical analysis tools tailored to the special structure of bacterial populations presents a roadblock. The goal of the project is to develop an analysis framework for mapping genes underlying naturally variable traits in bacterial populations. Focusing on the hospital-associated pathogens Staphylococcus aureus and Clostridium difficile, we will investigate the role of bacterial variants on disease severity.

The role of the Postdoctoral Scientist is to develop novel statistical methods for analysing genotype-phenotype associations in bacteria at the whole genome level. The successful candidate will write software implementing the statistical methods and apply them to design and carry out investigations into the genetic basis of virulence in natural populations of bacterial pathogens. The ideal candidate would be a recently graduating PhD student with experience of statistical genetics and computer programming, with evidence of publicly released software. Experience of population genetics or microbiology would be advantageous but is not essential.

The post is available immediately, for up to 3 years in the first instance. For more details on this position, including salary, job description, selection criteria and how to apply, visit https://www.recruit.ox.ac.uk/pls/-hrisliverecruit/erq_jobspec_version_4.jobspec?p_id=-109875 Applications are to be made online. The closing date is 12.00 noon on Monday 4 November 2013. Applicants will be asked to upload a CV and a supporting statement as part of the online application. For informal enquiries, please email me. For more information about the group's research visit http://www.danielwilson.me.uk/research.html danny.wilson.list@gmail.com

UPorto Phylogenetics

ONE POST DOCTORAL RESEARCH ASSOCIATE IN MOLECULAR BIOLOGY AND PHYLOGENETICS

The *Animal Diversity and Evolution Group* at CIIMAR-University of Porto (http://-www.ciimar.up.pt) is seeking candidates for one Postdoctoral fellowship under the annual application scheme of FCT, Portugal (http://www.fct.pt/apoios/-bolsas/regulamento.phtml#BPD). The successful candidate will apply to the Portuguese National Science Agency (FCT) and depending on the outcome is expected to start working in the first months of 2014. The research program focuses on the evolution of lipid metabolism in metazoans. The initial appointment to this position is for three years with a possible extension to six years. It requires a PhD in Molecular Biology and Phylogenetics and the goal of the research is to test hypotheses related with the evolution of lipid metabolic cascades in the context of genome duplications as well as adaption to novel habitats and food sources (e.g. colonization of land). This work will include a large amount of data analysis from available genomes and bioinformatics, as well as functional genomics approaches.

Instructions to Applicants: applicants should submit a cover letter describing their interests, skills, prior scientific experience (no less than 6 published papers, two at least as first author), and 3 publications (pdf) from peer-reviewed journals, their CV, and the names and contact information of 2 referees. Applications as well as requests for further information should be sent to Filipe Castro to the following email address filipe.castro@ciimar.up.pt.

The successful candidate will apply to the Portuguese National Science Agency (FCT) up to the 19th of September and it's expected to start working in the first months of 2014. Fellowship wage will be 1495 euros /month (tax-free), with social security and national health system included. Application review will go up to the 12th September, 2013.

Filipe Castro, PhD Biomedical Sciences Researcher LECEMA, CIIMAR, Portugal email: lfilipecastro@gmail.com filipe.castro@ciimar.up.pt

Filipe Castro <lfilipecastro@gmail.com>

UPotsdam AdaptiveGenomics

Research Scientist position (TVL13) in Evolutionary Biology at Potsdam University

A Research Scientist position (TVL13) is available at the Unit of General Zoology/Evolutionary Adaptive Genomics at the University of Potsdam, starting November 1st 2013. The position will be available for 3 years, with the possibility of extension for a total duration up to 6 years.

The Unit of Evolutionary General Zoology/Evolutionary Adaptive Genomics represents a new group at the University of Potsdam with a strong focus on research in evolutionary genetics, including population genetics, phylogenetics and adaptive genetics as well as genome sequencing (see http://www.york.ac.uk/biology/research/ecology-evolution/michael-hofreiter/ for recent work at the current position of the head of the unit). The Unit runs a state-of-the-art molecular evolutionary laboratory including a new ancient DNA laboratory.

The successful applicant is expected to run their own research program (including attraction of third-party funding) as well as to scientifically interact with other group members. Candidates should be able to demonstrate the ability to develop and undertake independent research projects, leading to publishable outcomes within predetermined timescales. The research project should fit into the broad topic of the research unit. i.e. evolutionary genetics, preferentially on vertebrates.

The position includes a teaching duty of 14 hours/week in zoology/evolutionary biology for undergraduates and graduates. Teaching can be generally performed in English, but the willingness to acquire German language skills for undergraduate teaching would be preferential. Past experience of teaching, lecturing and student project supervision should be included in the application.

Applicants must hold a university doctoral degree in biology or a related discipline. Familiarity with modern molecular genetics and genomics techniques (including Next Generation Sequencing) as well as in genomic data analysis is preferable. Applicants should have a proven track record in publishing high quality scientific papers. Experience in writing grant applications and past success in winning research funding is of advantage.

Potsdam is a beautiful city in close vicinity to the German capital of Berlin. Potsdam University takes an effort to assist its members in family-related issues and has repeatedly been awarded the total e-quality award.

Please send your application, including your CV, publication list and proposed research plan by email (preferably in a single pdf) before 30th of September 2013 to: Prof. Dr. Michael Hofreiter, University of Potsdam, Institute of Biochemistry and Biology, General Zoology/Evolutionary Adaptive Genomics, Karl-Liebknecht-Str. 24-25, D-14476 Potsdam, Germany, Email: michi@palaeo.eu

Prof. Dr. Michael Hofreiter General Zoology/Evolutionary Adaptive Genomics Institute of Biochemistry and Biology University of Potsdam Karl-Liebknecht-Str. 24-25 Germany Tel: 0049 31 9775250 Email: michi@palaeo.eu

*3 PhD positions in Evolutionary Biology at Potsdam University * Starting November 1st 2013, 3 PhD positions (3 years each) are available at the Unit of General Zoology/Evolutionary Adaptive Genomics at the University of Potsdam.

The Unit of Evolutionary General Zoology/Evolutionary Adaptive Genomics represents a new group at the University of Potsdam with a strong focus on research in evolutionary genetics, including population genetics, phylogenetics and adaptive genetics as well as genome sequencing (see http://www.york.ac.uk/biology/research/ecology-evolution/michael-hofreiter/ for recent work at the current position of the head of the unit). The Unit will run a state-of-the-art molecular evolutionary laboratory including a new ancient DNA laboratory and an Illumina MiSeq sequencing platform.

The successful applicant is expected to work on a research project on population genetics and gene flow of Pleistocene European large mammals using ancient DNA analyses. The projects are part of a European Research Council grant to the head of the unit, Prof. Michael Hofreiter and will be integrated into a larger

research group within the unit, providing possibilities for interaction and scientific exchange with other PhD students and postdocs in addition to supervision by the group leader.

Applicants must hold a university bachelor or master?s degree in biology or a related discipline. Familiarity with modern molecular genetics and genomics techniques (including Next Generation Sequencing) as well as with genomic data analysis is preferable. Applicants should have good English language skills.

Potsdam is a beautiful city in close vicinity to the German capital of Berlin. Potsdam University takes an effort to assist its members in

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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

UPretoria Bioinformatics

The Van de Peer lab (http://bioinformatics.psb.ugent.be/beg/) is setting up a joint lab in Bioinformatics and Systems Biology at the University of Pretoria (http://web.up.ac.za).

Recently, the University of Pretoria founded a new Genomics Research Center, focusing on five major themes, namely Microbial and Environmental Genomics, Plant Genomics, Fungal Genomics, Animal and protozoon genomics, and Human Genomics. To support research in these respective fields, we are setting up a new Bioinformatics and Systems Biology research group at the University of Pretoria, which will be closely interconnected with the Bioinformatics group at Ghent University. In this respect, we are currently looking for 3 Postdoctoral Fellows (to be working in Pretoria).

We seek creative, skilled and highly motivated candidates with a PhD in bioinformatics or computational biology. We do require strong analytical, computational skills proven by an excellent publication record. Experience with next generation sequence and whole genome sequence data is also required. Applicants should be proficient in programming (Perl, Python, C++ or Java) and knowledge in statistics and/or mathematical modeling would be an asset. Good communication skills are essential and applicants should be proficient in English, both speaking and writing.

Funding is secured for at least three years, and may be extended.

Contact Yves Van de Peer (yves.vandepeer@psb.ugent.be) for more information and/or to apply. To apply, please send a single PDF file that contains a cover letter describing your research interests and experience, full C.V., and contact information for three references. Review of applications will begin on October 1st and continue until the positions are filled. Start: As soon as possible.

Check out http://www.plantgenomeevolution.com/ Yves Van de Peer, PhD.

Professor in Bioinformatics and Genome Biology Group Leader Bioinformatics and Systems Biology, Department of Plant Systems Biology Ghent University Technologiepark 927 B-9052 Ghent Belgium

Phone: +32 (0)9 331 3807 Cell Phone: +32 (0)476 560 091 Fax: +32 (0)9 331 3809 email: yves.vandepeer@psb.vib-ugent.be

http://bioinformatics.psb.ugent.be/ Yves Van de Peer <yves.vandepeer@psb.vib-ugent.be>

USDA PeoriaIL PopGenComparativeGenomics

The Bacterial Foodborne Pathogens and Mycology Research Unit (BFP) of the USDA Agricultural Research Service in Peoria, IL, is searching for an outstanding candidate to fill a full time, not-to-exceed 2 years-postdoctoral research associate position (Research Geneticist). The incumbent will conduct population genetic, comparative genomic, and phylogenetic research to characterize the diversity, distribution, and evolution of fungal species and populations that cause Fusarium head blight (FHB) of wheat, barley and other cereals. To apply, follow the application directions provided in vacancy announcement RA-13-077-L from the USAJOBS at https://www.usajobs.gov/. To have a printed copy mailed, call Laura Adam, 309-681-6560. Salary Range of $57,408 to $74,628. Who may apply: U.S. Citizens and Permanent Residents seeking U.S. Citizenship. Applications must be received by December 31, 2013.

Todd J. Ward, Ph.D. Research Leader Bacterial Foodborne Pathogens and Mycology USDA-ARS 1815 N. University St. Peoria, IL 61604

Office: (309) 681-6394 Cell: (309) 229-8875

"Ward, Todd - ARS" <Todd.Ward@ARS.USDA.GOV>

USaoPaulo Hybridization

Postdoctoral Position at the University of São Paulo (USP)

A 2-year post-doctoral fellowship is available starting as soon as possible as part of a FAPESP (www.fapesp.br) grant entitled "Comparative phylogeography Phylogeny, palaeoclimate modeling, and taxonomy of Neotropical Reptiles and Amphibians", coordinated by Prof. Miguel Trefaut Rodrigues, at the University of São Paulo Biosciences Institute, in São Paulo. The specific post-doctoral project addresses hybridization and mechanisms of reproductive isolation in lizards from the Brazilian Atlantic Forests. The candidate is expected to lead the research on this topic as well as to help mentoring and managing an active team of graduate and undergraduate students working on a variety of grant-supported sub-projects. The candidate is also expected to develop and lead collaborative research if directly related to the subject of the main project.

Applicants should have published or submitted (peer-reviewed) papers in lizard morphology, phylogeograhy, and thermal physiology (preferably on gymnophthalmids and leiosaurids from the Atlantic Forest). Applicants are expected to generate and analyze molecular and morphological data and run experiments in thermal physiology. Applicants with background in integrative approaches to evolutionary questions are preferred.

Minimum qualifications:

- A Ph.D. (concluded in the previous 2 years) in Evolutionary Biology or related area

- Fluency in English (knowledge of Spanish and/or Portuguese is encouraged)

- Experience with molecular data generation and analyses

Fellowship: R$ 70,900 per year (aprox. US$ 35,000); FAPESP fellowships are tax free (see details at http://www.fapesp.br/en/5427).

Deadline is October 20, 2013 or until position is filled. To apply please submit curriculum vitae, statement of research interests (maximum two pages) and two letters of recommendation by email to the lead PI - Prof. Miguel Trefaut Rodrigues, Dep. of Zoology - IB - University of São Paulo. For further information please contact Dr. Rodrigues at mturodri@usp.br.

rpdama@berkeley.edu

USaoPaulo Hybridization 2

Correction - Postdoctoral Position at the University of São Paulo (USP)

I would like to correct the duration of the post-doc position at USP I advertised a week ago. Instead of 2-years, it is a 13-month position. Please, find the corrected post below.

Thanks, Miguel Rodrigues.

A 13-month post-doctoral fellowship is available starting as soon as possible as part of a FAPESP (www.fapesp.br) grant entitled "Comparative phylogeography Phylogeny, palaeoclimate modeling, and taxonomy of Neotropical Reptiles and Amphibians", coordinated by Prof. Miguel Trefaut Rodrigues, at the University of São Paulo Biosciences Institute, in São Paulo. The specific post-doctoral project addresses hybridization and mechanisms of reproductive isolation in lizards from the Brazilian Atlantic Forests. The candidate is expected to lead the research on this topic as well as to help mentoring and managing an active team of graduate and undergraduate students working on a variety of grant-supported sub-projects. The candidate is also expected to develop and lead collaborative research if directly related to the subject of the main project. Applicants should have published or submitted (peer-reviewed) papers in lizard morphology, phylogeograhy, and thermal physiology (preferably on gymnophthalmids and leiosaurids from the Atlantic Forest). Applicants are expected to generate and analyze molecular and morphological data and run experiments in thermal physiology. Applicants with background in integrative approaches to evolutionary questions are preferred.

Minimum qualifications: - A Ph.D. (concluded in the previous 2 years) in Evolutionary Biology or related area - Fluency in English (knowledge of Spanish and/or Portuguese is encouraged) - Experience with molecular data generation and analyses

Fellowship: R$ 70,900 per year (aprox. US$ 35,000); FAPESP fellowships are tax free (see details at http://www.fapesp.br/en/5427).

Deadline is October 20, 2013 or until position is filled. To apply please submit curriculum vitae, statement of research interests (maximum two pages) and two letters of recommendation by email to the lead PI - Prof. Miguel Trefaut Rodrigues, Dep. of Zoology - IB - University of São Paulo. For further information please contact Dr. Rodrigues at mturodri@usp.br.

rpdama@gmail.com

USheffield AphidSpeciation

The Department of Animal & Plant Sciences, University of Sheffield, seeks to appoint a Post-doctoral Research Associate to work with Professor Roger Butlin and Dr Julia Ferrari (University of York) to advance an NERC-funded project on the genetic basis of host race formation in the pea aphid. The project is focused on the role of chemosensory genes and requires a mix of skills including molecular ecology laboratory techniques, analysis of next generation sequence and genotype data, and use of in situ hybridisation, metabolomics and aphid performance approaches with the help of collaborators. You will be expected to have a strong commitment to research in evolutionary genetics and a special interest in processes of speciation.

The post is available from 1 December 2013 and is for a fixed term of 24 months.

To apply, go to www.shef.ac.uk/jobs, ref: UOS007124

For more information, contact: Roger Butlin on r.k.butlin@shef.ac.uk

r.k.butlin@sheffield.ac.uk

USussex BeeEvolution

Postdoctoral Research Fellow in Ecology (Bees and Pesticides) Three year post, available from 1 February 2014, based at the University of Sussex (Falmer, near Brighton, UK). Closing date 15 November 2013.

A full-time, BBSRC-funded, 3-year postdoctoral research position is available to join a research team in the School of Life Sciences at the University of Sussex, UK. The programme of research, titled "A systems approach to understanding the impacts of sublethal doses of neonicotinoids on bumblebee and honeybees" is led by Prof Dave Goulson, and is a collaborative project with University of Exeter and Rothamsted Research.

The main aim of the project is to improve our understanding of the impact of pesticides on wild bumblebee colonies and domesticated honeybees in farmland. This is currently highly topical since a two year moratorium on certain uses of neonicotinoids comes in to place in December 2013. Additional evidence is urgently required to inform the debate as to whether this moratorium should be renewed / extended or allowed to lapse. This project will: produce landscape maps of sources of neonicotinoid exposure; examine the effect of neonicotinoid exposure on the homing abilities of bees; examine impacts of realistic levels of exposure to neonicotinoids on bumblebee colonies. Exeter will incorporate these data into systems models of bumblebee and honeybee colony development and survival, and the predictions of these models will be validated with further field studies. Overall, we intend to develop management recommendations to minimise the impacts of neonicotinoids on both managed honeybees and wild bumblebee populations.

The project will involve collection of field samples of pollen, nectar, vegetation and bees for screening for neonicotinoid insecticides. The screening will be carried out in conjunction with Prof E Hill, and technical support is available for this. Expertise in chemical analysis is therefore not needed, but the fellow will be expected to become familiar with interpretation and analysis of outputs.

The successful applicant will have a PhD in ecology. Experience with social insects, pollinators, agroecosystems and / or pesticides is desirable but not essential. Knowledge of experimental design and analysis is essential. A driving licence is essential.

The appointee will also be part of the Evolution, Behaviour and Environment (EBE) Subject Group in the School of Life Sciences at Sussex (http://-www.sussex.ac.uk/lifesci/ebe/research), a thriving research environment providing ample opportunities to interact with leading senior researchers and their groups. The successful applicant will particularly benefit from an exceptional (on a world scale) concentration of research expertise that focusses on social insects: in addition to Dave Goulson, Jeremy Field, Francis Ratnieks, Bill Hughes, Tom Collett and Paul Graham all lead well-established research groups.

APPLICATIONS PROCEDURE

Applications should include a CV, a covering letter ex-

plaining the applicant's suitability for the post, and a completed University of Sussex application form. This should include:

1. Contact details (including e-mail addresses) for the applicant and 3 referees who would be available to provide references before interview (during the month after the closing date).

2. The applicant's availability for interview at Sussex University during the 3 weeks after the closing date.

3. A clear statement that (a) the applicant would be available to start work on 1 February 2014 or soon thereafter; (b) the applicant has a full driving licence.

Starting salary will be approximately £30,400 per year, plus superannuation.

Informal enquiries: Dave Goulson (d.goulson@sussex.ac.uk). See also http://-www.sussex.ac.uk/lifesci/goulsonlab/ Professor Dave Goulson, School of Life Sciences, University of Sussex BN1 9QG Tel: 01273 678843

Dave Goulson <D.Goulson@sussex.ac.uk>

UWisconsin-Milwaukee PopulationGenomics

A postdoctoral position in population genomics is available in the laboratory of Emily Latch at the University of Wisconsin-Milwaukee. We are looking for a highly self-motivated and independent candidate to investigate mechanisms of adaptive divergence and differentiation in a highly mobile species, mule deer. The successful candidate will use next-generation sequence data (exon capture) to identify genes of adaptive significance in mule deer and black-tailed deer, and use genomic analyses to explore the patterns of introgression of these genes across a complex mule deer X black-tailed deer hybrid swarm.

A PhD in evolution, population genetics, genomics, bioinformatics or similar field is required. Applicants should have a strong publication record, and demonstrable experience in one or more of the following areas: 1) assembly and annotation of genomic data from next-generation sequencing technologies, 2) analysis of genomic data using tools of molecular evolution and population genetics, or 3) computer programming. Applicants with ArcGIS experience are preferred. Annual salary is up to $40,000/year plus benefits. One year of funding is available, and responsibilities for the first year include collaborating on a grant proposal to fund continued research after the first year.

Informal inquiries about the project are encouraged. Applicants should submit a single pdf document that includes: 1) cover letter describing previous experience and fit to the position, 2) CV containing contact information for 3 references, and 3) relevant publications. For more information about the Latch lab see: http://-/www.uwm.edu/ ~ latch. UW-Milwaukee has an active group of researchers studying molecular ecology and behavior: http://www.preferencefunctions.org/-behavioral-molecular-ecology.html. UWM is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce. Applicants from groups traditionally underrepresented in science are especially encouraged to apply.

Applications and all queries should be sent to Emily Latch at latch@uwm.edu. Review of applications will begin October 15 and will continue until the position is filled. Start date is negotiable, but must begin before January 2014.

Emily K. Latch Assistant Professor Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211 Email: latch@uwm.edu Tel: 414-229-4245 Web: http://-/www.uwm.edu/ ~ latch

latch@uwm.edu

UZurich ExperimentalEvolution

Postdoctoral position in experimental evolution

A postdoctoral fellowship in evolutionary biology is available in the laboratory of Andreas Wagner at the University of Zurich. We are looking for a researcher to study the origins of evolutionary adaptations and innovations in biological systems. Past projects involve laboratory evolution in systems as different as E. coli, yeast, and ribozymes (e.g., Hayden et al., Nature 2013; Dhar et al., Mol. Biol. Evol. 2013). A sample of the laboratorys research can be found at http://-/www.ieu.uzh.ch/wagner/ .Lab members are a group with very diverse backgrounds and research projects, unified by their interests in evolution and lifes fundamental organizational principles. We are looking for an individual who has received his or her PhD within the last five years, who is highly self-motivated and

can work independently on a project that he or she will develop. The labs work is concept-driven instead of organism-driven, and projects are not restricted to the model systems mentioned above. A successful candidate will have substantial research experience with molecular biological techniques, acquired in research with an evolutionary orientation. The ideal candidate will also have experience with computational analysis of high-throughput data. State of the art experimental technology is available through the Functional Genomics Center Zurich, which provides platforms for ultra-high throughput sequencing, transcriptomics, proteomics, and metabolomics. Applications with a demonstrated interest and research history in evolutionary biology will be given strong preference. The position offers a highly competitive salary of up to three years on annually renewable contracts. The working language in the laboratory is English. German skills, although helpful, are not essential. Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@ieu.uzh.ch: CV including publication list, a statement of research interests not exceeding three pages, and three academic references. A brief sketch of a proposed research project is also desirable. Please include the word EXPPOST13± in the subject line. The application deadline is October 14, 2013. The position is available at the beginning of 2014.

Annette Schmid Administrative Assistant of Prof. A. Wagner University of Zurich Institute of Evolutionary Biology and Environmental Studies Wagner lab, Y27-J52 Winterthurerstrasse 190 CH-8057 Z[1]rich Switzerland Mail to: annette.schmid@ieu.uzh.ch Phone +41 (0)44 635 61 42 Fax +41 (0)44 635 61 44 at the office on Tuesday and Thursday

annette.schmid@ieu.uzh.ch

UppsalaU EvolutionNeurospora

Postdoc position: Evolutionary Genomics of Neurospora

A 1-year postdoctoral research position (with the high probability for a second year) is currently available at the Evolutionary Biology Center (EBC), Department of Evolutionary Biology, Uppsala University, Sweden. The candidate will join the research group of Associate Professor Hanna Johannesson. The project will be developed based on the interest on the applicant, but should include the study of evolutionary genomics of the model system Neurospora. Currently, large genomic datasets of Neurospora populations are available in the group, and may provide the basis for several newly developed projects. Applicants should have a PhD in biology/ecology and a strong interest in biology and evolution. Documentet experience in bioinformatics, comparaitive genomics, molecular phylogenetics and/or population genetics are advantageous.

The working atmosphere at EBC is international with English as working language. EBC constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, with research programs including ecology, systematics, genetics, genomics, and developmental biology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes by train from Stockholm.

Deadline for application, September 18. Starting date as soon as agreed upon.

Applications should include: 1) letter of interest / background (2 pages max); 2) complete CV; 3) the names and e-mail addresses of three referees.

Applications or questions should be sent by e-mail to Hanna.Johannesson@ebc.uu.se.

Hanna Johannesson <hanna.johannesson@ebc.uu.se>

Vienna EvolutionaryBioinformatics

The Department for Systematics and Evolutionary Botany at the University of Vienna, Austria is recruiting a Postdoctoral Fellow in Evolutionary Bioinformatics

A postdoctoral position in bioinformatics is immediately available in the research group of Ovidiu Paun at the University of Vienna (see http://-www.botanik.univie.ac.at/systematik/personnel/-Paun.htm). The position is funded by the Austrian Science Fund (FWF) and the KlimaFonds of the Austrian Ministry of Science. The fellow will be involved in several collaborative projects on the evolutionary genomics of plants, whose common topic is the analysis of high-throughput genome sequence or functional genomic data. The main focus of our research is to

test if epigenetic variation can drive adaptation to different environments and play a role in speciation. The candidate will play a lead role in analysing next generation sequencing data including RNA-seq, smRNA-seq, BS-seq and RAD-seq. The fellow will be also involved in identifying outliers and performing environmental correlations.

We are looking for a highly self-motivated and independent candidate, yet willing to work in a team-effort. The fellow should hold a relevant PhD degree in bioinformatics or related fields before starting this position. Fluency in a major programming language such as perl or python and a strong publication record are expected. The successful candidate should also be able to demonstrate experience with computational analyses of high-throughput genomic data. Previous experience with evolutionary studies of non-models is an advantage, but not a must. The position offers a competitive salary (min 47,000 per year before tax, including social and health security) of up to 5 years on a renewable contract after the first two years. Together with the group leader the successful applicant will mentor students at the graduate level, and s/he could contribute to graduate teaching. We further offer to fund one conference participation per year and a short visit to one of the labs of ou r collaborators.

The working language in the laboratory is English. German skills are not essential, but can be helpful for everyday life in Vienna. Vienna is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities. The presence of several outstanding research groups (see www.univie.ac.at/evolvienna/) make Vienna a hot spot for evolutionary research and offers ample opportunities for interactions with peers.

To be considered please send your application per email to ovidiu.paun@univie.ac.at including your CV, a publication list indicating your personal contribution to each paper, a short statement of research interests (up to two pages) and the names and contacts of three academic referees. Screening of applications will begin immediately and will continue until the position is filled. The latest preferred start date is March 1st, 2014.

Thanks for posting. Best regards from Vienna Ovidiu

Dr. Ovidiu Paun Department for Systematic and Evolutionary Botany University of Vienna Rennweg 14, A - 1030 Vienna Tel. Nr. +43/1/4277/54052, Fax: +43/1/4277/9154 Mob. +43/1/676/3126637 eMail: ovidiu.paun@univie.ac.at www.botanik.univie.ac.at/systematik/projects/-dactylorhiza ovidiu.paun@univie.ac.at

XTBG China ConservationGenomics

XTBG Postdoc in Conservation Genomics

The Ecological Evolution group, and the Center for Integrative Conservation at the Chinese Academy of Sciences, Xishuangbanna Tropical Botanical Garden (XTBG), Yunnan invite applications for a postdoc position in Conservation Genomics.

Established in 2007 within China's largest botanical garden, the Ecological Evolution Group in the Xishuangbanna Tropical Botanical Gardens aims to promote research on biodiversity and evolution in the Asian tropics within the Chinese Academy of Sciences (CAS) and internationally. We integrate experience across a wide range of scientific approaches and techniques in Molecular Ecology, from phylogenetics to population genomics.

The postdoc will be under the co-supervision of Dr Yann Surget-Groba, PI of the Ecological Evolution group, and of Dr Richard Corlett, Director of the Center for Integrated Conservation. The main project of the postdoc will be to develop innovative tools for rapid assessment of tropical plant genetic diversity, but other projects are possible depending on the applicant's interests.

The ecological evolution group and XTBG core laboratory are equipped with all the necessary molecular facilities, including a MiSeq sequencer. Access to other equipment like HiSeq, 454, IonTorrent, Fluidigm is possible through collaboration with other CAS institutes in Yunnan.

The position is available immediately. Housing is provided for free. Candidates with a strong record of accomplishment should submit a CV, please include at least two potential reference who could provide letters of recommendation. Please send the application to Dr. Yann Surget-Groba (yann <at> xtbg.org.cn), and Dr. Richard Corlett (corlett <at> xtbg.org.cn). For more information about XTBG and our research groups, please visit http://english.xtbg.cas.cn/- , http://www.ecologicalevolution.org/ . Yann Surget-Groba, P.I. Ecological Evolution Group Key Laboratory of Tropical Forest Ecology Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences Menglun, Mengla, Yunnan 666303 China

yann@xtbg.org.cn

WorkshopsCourses

Barcelona DrosophilaPopGenNetwork Oct16

EDRC 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 EDRC 2013 meeting in Barcelona, Spain (23rd European Drosophila Research Conference, 16-19 October 2013;http://-edrc2013.org). You can sign up for the workshop on the EDRC congress website.

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 unprecedent 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 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 Barcelona!

Best wishes,

Josefa González and Thomas Flatt

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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[1] Â Thomas Flatt SNF Professor Department of Ecology andÂEvolution University of Lausanne UNIL Sorge Le Biophore CH-1015 Lausanne Switzerland

E-mail:ÂThomas.Flatt@unil.ch

Tel. Office: +41(0)21-692-4203[2] Tel. Secretary: +41(0)21-692-4160[3] Fax: +41(0)21-692-4165[4] Â Website:Âhttp://www.unil.ch/dee/page94630_en.html Â Lab:Âhttp://www.unil.ch/dee/page95005.html Book: Mechanisms of Life HistoryÂEvolution http://-/www.unil.ch/dee/page95072.html "GONZALEZ PEREZ, JOSEFA" <josefa.gonzalez@ibe.upf-csic.es>

Barcelona Morphometrics Jan28-31

Dear Colleagues,

This is the last call for the course "Integration and modularity with geometric morphometrics - Third edition." January 28-31, 2014. Instructor: Dr. Chris Klingenberg (University of Manchester, UK).

END OF EARLY REGISTRATION WITH REDUCED FEE: SEPTEMBER 30. Â Place: Els Hostalets de Pierola, Barcelona, Spain. Â Organized by: Transmitting Science and the Council of Els Hostalets de Pierola. Â More information: http://www.transmittingscience.org/courses/-gm/modularity-and-gm/Â The aim of this course is to provide participants with an overview of morphometric approaches to studying morphological integration and modularity. The concepts of integration and modularity will be introduced and discussed in different contexts (e.g. development, individual variation, evolutionary change). The theoretical basis and application of different methods for analyzing integration and modularity in geometric morphometric data will be presented. Participants are encouraged to bring their own morphometric data for analysis and discussion in the course.

Moreover, for those participants interested in the analysis of phenotypic variation in relation with genes, a 20 % off will be offered in the course "Quantitative Genetics of Shape" that will be held the week after the Integration and GM course (http://-www.transmittingscience.org/quant_gen_shape.htm).Â Â

With best regards

Soledad De Esteban Trivigno Course Director Transmitting Science www.transmittingscience.org Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.org>

Bertinoro Italy LandscapeGenetics Nov3-9

WHERE: Bertinoro, Italy WHAT: Autumn school "Landscape genetics in transition to landscape genomics" WHEN: 3 - 9 November 2013

Landscape genomics is an exciting and rapidly growing discipline that combines genome-wide patterns of genetic variation, large environmental data sets and spatial statistical methods, to improve our understanding of both species ecology and ecological adaptation. This autumn school aims to provide an updated discussion of landscape genetics analysis in the new genomic era, guided by experts in genomics, spatial statistical analyses, and population genetics. It will include an assortment of conceptual, methodological and applied contributions, followed by hands-on training in order to provide an overview of novel approaches for analysing the environmental context of genomic variation. The autumn school is aimed at early-career researchers (PhD students, postdoctoral researchers, and faculty who wish to gain training in this area) who have some background knowledge in population genetics and landscape genetics but who have an interest in improving their skills with regards to the analysis of the environmental context of genome-wide genetic variation obtained from novel NGS data. The autumn school will have a limited number of participants (30) and lectures (ca. 5).

Aim and Objectives This autumn school will provide an excellent opportunity to introduce young scientists (PhD students and postdocs) to the complex field of landscape genomics and familiarise them with the application of novel analyses from different disciplines that merge within this novel field. The specific objectives of this workshop are: 1) Promote better understanding links between the novel genomic information and spatially explicit analysis, in order to facilitate interdisciplinary communication and education in the new emerging field of landscape genomics 2) Provide an update of the current state of the landscape genetics field and the major challenges and opportunities by the incorporation NGS data. 3) Explore recent analytical

advances in NGS of non-model species and gain experience about data collection, production and analysis strategies in population genomics. 4) Provide hands-on training for analysing the environmental context of genetic (neutral and adaptive) variation through spatial statistic and simulation modelling using the most recent methods on landscape genetics/genomics. 5) Address current research challenges and explore new opportunities to improve future landscape genomics applications, and positively contribute to the future growth of this promising field.

AUTUMN SCHOOL VENUE The school will be held at The University Residential Centre of Bertinoro (Ce.U.B.), Italy. This centre is active since 1994 in the field of vocational training, conferences, congresses and lectures. Ce.U.B. is a professional training centre of the University of Bologna and it is located in the ancient town of Bertinoro (Forlg-Cesena). http://www.ceub.it/ . REGISTRATION The workshop is supported by the European Science Foundation (ESF). Registration is free and accommodation and meals during the workshop are paid for by the ESF. Travel costs will be reimbursed (after the autumn school) up to a maximum of 100 for Italian participants and up to a maximum of 200 for non-Italian participants. Thirty (30) participants will be selected based on CV, motivation and date of registration. Only those who are registered for the autumn school are eligible to participate. Participants will be prioritized according to the following order: 1) Participants from contributing member countries (Belgium, Denmark, Finland, Germany, Greece, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland) of this ESF network program, 2) Participants from non-contributing ESF member countries in Europe, 3) Participants from the remaining countries.

You can download the registration form at http://www.ru.nl/congenomics/activities/autumn-school-2013/ Registration deadline: October 9th, 2013 // Notification of acceptance: October 12th, 2013

"Vergeer, Philippine" <philippine.vergeer@wur.nl>

Crete ComputationalMolEvol May5-14

Dear Community,

The 6th summer school on computational molecular evolution that I am organizing with Ziheng Yang, Nick Goldman and Aidan Budd will take place from May 5 - 14 2014 in Crete, Greece again.

Please visit the course web-site for further details:

http://events.embo.org/14-computational-evolution/index.html The application deadline is on October 31st 2013.

Alexis – Alexandros (Alexis) Stamatakis

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

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

GTPB Portugal RNAseq exomes

GTPB - The Gulbenkian Training Programme in Bioinformatics

Applications for the Bioinformatics Training Course

WESRDA13 - Whole Exome Sequencing and RNA-seq data analysis

with Ignacio Medina and Javier Santoyo-Lopez

are now OPEN!

IMPORTANT DATES for this Course Deadline for applications: *September 27th 2013* Notification of acceptance within 72 hours of application (working days count) Course date: *October 8th to October 11th 2013*

Details about the course including instructions on how to apply can be found in the appropriate page of the GTPB website

http://gtpb.igc.gulbenkian.pt/bicourses/WESRDA13/ We hope that you enjoy it.

Best regards Pedro Fernandes GTPB organiser Instituto Gulbenkian de Ciência Apartado 14 2781-901 OEIRAS PORTUGAL Tel +351 21 4407912 http://gtpb.igc.gulbenkian.pt Course description High-throughput technologies such as next generation sequencing (NGS) are characterized for producing massive a mounts of data. These technologies for example can allow to describe all variants in a genome or to detect the whole set of transcripts that are present in a

cell or tissue. However, at the same time, posses new challenges in the way the data has to be analyzed, annotated and interpreted which are not trivial.

Whole Exome Sequencing produces sequence data using NGS assays and allows the study of genetic variations in the exonic regions of all genes that can be transformed in biological information at an unprecedented level of detail. Traditionally transcriptomic analysis has been used to find genes that are differentially expressed among distinct experimental conditions, or correlated to diverse parameters. Currently, NGS technologies such as RNA-seq can also allow to digitally quantify all, known and unknown, transcripts or to discover new isoforms and splice sites for all the genes.

However, NGS data analysis can be a major bottleneck for many researchers which are still applying inefficient tools for the processing of the data and inadequate methods for the interpretation of their results in order to have meaningful results. This course covers state-of-the-art tools and methods for NGS RNA-seq and exome variant data analysis, which are of major relevance in today's genomic and gene expression studies.

The aim of this course is to familiarise course participants with the latest analysis methodologies and to provide hands-on training on the analytical approaches implemented for RNA-seq data and whole exome variant analysis.

Pedro Fernandes <pfern@igc.gulbenkian.pt>

Manchester Biodiversity Dec5-6

BioVeL, a virtual laboratory for biodiversity research data, is offering two training workshops

≪Introduction to workflows for taxonomic refinement, biogeographic analysis, and species distribution modelling≫ November 26-27, 2013, Cardiff University, UK Description of the workshop and registration

≪Building workflows with Taverna workbench≫ December 5-6, 2013, Manchester, UK Description of the workshop and registration

Note that these training workshops are free to attend but registration is required. The number of participants is limited. For further information, please write contact@biovel.eu.

More information on BioVeL: www.biovel.eu BioVeL is funded by the European Commission 7th Framework Programme (FP7) as part of its e-Infrastructures activity (Grant no. 283359).

Elisabeth PAYMAL BioVeL Communication Officer www.biovel.eu Responsable du Pôle communication et partenariats Fondation pour la Recherche sur la Biodiversité (FRB)

www.fondationbiodiversite.fr elisabeth.paymal@fondationbiodiversite.fr +33 1 80 05 89 21

195 rue Saint Jacques 75005 Paris France

Elisabeth Paymal <elisabeth.paymal@fondationbiodiversite.fr>

MaxPlanckInst Rostock AgingAcrossTreeOfLife Nov6-Dec20

Dear evoldir,

There will be a workshop on the "Demography of Aging across the Tree of Life" form November 6th until December 20th 2013 in Rostock. Interested PhDs and postdocs are welcome to attend, there is a limited number of stipends available.

Deadline was Sept 18th, but we still have vacancies.

This is a link to the description of the course

http://tinyurl.com/datlife Dr. Alexander Scheuerlein Deputy Head Evolutionary Biodemography Lab

MPI for Demographic Research Konrad-Zuse-Straße 1 D-18057 Rostock, Germany

Phone: +49 (0) 381 2081 212 Fax: +49 (0) 381 2081 512 email: scheuerlein@demogr.mpg.de

"Scheuerlein, Alexander" <Scheuerlein@demogr.mpg.de>

OTS EvolutionaryBiol

Hello everyone, I apologize for the cross-posting. However I wanted to share the following information:

OTS is offering several graduate level courses for 2014. All are accredited courses, meaning students that par-

ticipate will receive academic credit. OTS is a consortium of over 50 universities worldwide so credits from our courses are recognized by all the member institutions (http://bit.ly/1078fLg).

Courses offered for 2014:

< http://ots.ac.cr/index.php?option=-com_content&task=view&id=834&Itemid93 > An Introduction to Tropical Ecology - Winter opportunity!! (http://bit.ly/19jAWIW)

-Coordinator: Jane Zelikova (< http://-www.colorado.edu/ebio/postdocs/zelikova/-Jane_Zelikova/Home.html > lab website) and Jennifer Stynoski

-Course duration: 4 weeks (December 29 - January 24)

-Credits: 4 credits awarded by the University of Costa Rica

Application Deadline: September 16, 2013

Ecology and Evolution of Arachnids (< http://bit.ly/-12kdMC3 > http://bit.ly/12kdMC3)

-Coordinator: Eileen Hebets (Lab website < http://-biosci-labs.unl.edu/hebets/hebets.html >) -Course duration: 2 weeks (January 3-17, 2014)

-Course Credits: 2.0 Application Deadline: October 1, 2013 for priority consideration, followed by rolling admission until fully enrolled.

< http://ots.ac.cr/index.php?option=-com_content&task=view&id=152&Itemid93 > Ecología Tropical y Conservación(< http://bit.ly/-13g0XEs > http://bit.ly/13g0XEs)

-Coordinador: Alejandro Farji y Federico Chinchilla

-Duración del curso: 6 semanas (15 de enero a 24 de febrero, 2014)

-Créditos: 7 créditos otorgados por la Universidad de Costa Rica

Fecha límite de matrícula: 15 de junio del 2013

Conservation Genetics (http://bit.ly/13AeiZC)

-Coordinator: Jim Hamrick (Lab website < http://-www.plantbio.uga.edu/ ~ hamrick/hamrick.html >) -Course duration: 2 weeks (May 24 to June 8, 2014)

-Course Credits: 2.0 -Application Deadline: February 3, 2014 for priority consideration, followed by rolling admission until fully enrolled.

< http://ots.ac.cr/index.php?option=-com_content&task=view&id=151&Itemid93 > Tropical Biology: An Ecological Approach - Summer opportunity!!(http://bit.ly/19cC8fT)

-Coordinator: Jane Zelikova (< http://-www.colorado.edu/ebio/postdocs/zelikova/-Jane_Zelikova/Home.html > lab website) and Jennifer Stynoski

-Course duration: 6 weeks (June 10 - July 21,2014)

-Credits: 6 credits awarded by the University of Costa Rica

-Early Application Deadline: November 1, 2013

-Final Application Deadline: February 3, 2014; followed by rolling admission until course is full.

Tropical Plant Systematics (http://bit.ly/11WBLjk)

-Coordinator: Robbin Moran (< http://www.nybg.org/science/-scientist_profile.php?id_scientist=16 > Bio) and Bard Boyle (Enquist Lab <http://eeb37.biosci.arizona.edu/-~ brian/Department_of_Ecology_and_Evolutionary_Biology/Enquist_Lab.html>)

-Course duration: 5 weeks (June 11 - July 13,2014)

-Credits: 6 credits awarded by the University of Costa Rica

-Early Application Deadline: November 8, 2013

-Final Application Deadline: February 7, 2014; followed by rolling admission until course is full.

Payment for Ecosystem Services: Putting Theory into Practice in Costa Rica (http://bit.ly/1a13abb)

-Coordinator: < http://cnr.ncsu.edu/fer/directory/-sills.php > Erin Sills -Course duration: 2 weeks (June 15-30, 2014) -Credits: 2 semester credits awarded by the University of Costa Rica

-Application Deadline: February 3, 2014 for priority consideration, followed by rolling admission until fully enrolled.

Monitoring Tropical Forest Dynamics In A Changing Climate (http://bit.ly/18lLFjC)

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Peru PrimateConservation Dec27-Jan10

PrimatesPeru, a nonprofit conservation education organisation that works in the southeastern Peruvian Amazon rainforest, announces a short course on tropical biology. Details are below:

Course Dates: December 27, 2013-January 10, 2014

Course details: http://primatesperu.org/get-experience/courses-and-workshops/tropical-primatology/ Course application: http://primatesperu.org/get-experience/courses-and-workshops/tropical-primatology/course-application-form/ Application Deadline: November 20, 2013

Course Objectives: This course will provide an introduction to tropical field biology, with a particular focus on imparting practical knowledge on working in rainforest. The main objectives of the course are to teach participants to: - Get accustomed to the look, feel and sound of the rainforest, and work in it with minimal impact on the forest - Work on and off the trail system, by learning orientation skills and navigation using GPS and a compass - Recognize and appreciate a wide range of flora and fauna, and gain an understanding of the ecology and interconnectedness of these species within this ecosystem - Monitor the biodiversity of a variety of plant and animal groups through the use of camera traps, line transects, and invertebrate cataloguing - Track identified animals or animal groups via radio telemetry and vocalisations, using our radio-collared tamarin population as a reference - Observe and record animal behavior, from that of eusocial insects to larger primates - Non-invasively collect biological samples and conduct basic processing in the forest laboratory for a variety of uses - endocrinology, parasitology, and genetics

More information on PrimatesPeru is located at http://primatesperu.org Please do pass on this information to anyone that might be interested. To receive further announcements from PrimatesPeru directly, please subscribe here: http://primatesperu.org/sign-up-for-announcements/ Sincerely,

Mrinalini Erkenswick Watsa Research Scientist, Department of Biological Anthropology, Washington University in St. Louis, One Brookings Drive, St. Louis, MO-63108

President and Director, PrimatesPeru http://primatesperu.org "Erkenswick Watsa, Mrinalini" <mwatsa@wustl.edu>

SanDiego DrosophilaSpecies Mar25-26

Drosophila Species Workshop XII at the 2014 Drosophila Research Conference in San Diego (Tuesday, March 25th & Wednesday, March 26th at the Town & Country Resort & Conference Center)

The main goal of the workshop is to help participants incorporate non-melanogaster /Drosophila/ species into their research program. Workshop modules cover /Drosophila/ systematics, rearing and husbandry techniques, designing and conducting mating experiments, collecting flies from wild populations, dissecting and mounting techniques, and analysis of polytene chromosomes. In addition, workshop participants learn the morphological traits necessary for identifying /Drosophila/ species, and work in depth with the /D. melanogaster/, /D. obscura/, /D. repleta/, and /D. virilis/ species groups alongside specialists to facilitate the process of species identification.

Workshop participants include domestic and international /Drosophila/ researchers that use a variety of techniques pertaining to studies in genomics, proteomics, systems biology, microbial genetics, developmental biology, chromosome biology, and ecological genetics.

Registration is $300. Applications are currently being accepted. Please send a one-page statement of your research interests, and an explanation of why the workshop will be valuable to you, to Dr. Maxi Richmond (mrichmond@ucsd.edu <mailto:mrichmond@ucsd.edu>).

More information available at: https://stockcenter.ucsd.edu/info/workshops Maxi Polihronakis Richmond <mrichmond@ucsd.edu>

SanDiego PAG2014PopulationGenomics Jan11-15 2

Population and Conservation Genomics Workshop

Plant and Animal Genome XXII International Conference http://www.intlpag.org/ January 11-15, 2014 Town and Country Convention Centre, San Diego, California

Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXII International conference. The workshop is scheduled on Saturday, January 11, 2014. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide association studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 18, 2013. You will be notified by October 23nd whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora,

Faculty of Forestry and Environmental Management,

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Om Rajora <om.rajora@unb.ca>

SanDiego PopulationGenomics Jan11-15

Population and Conservation Genomics Workshop

Plant and Animal Genome XXII International Conference http://www.intlpag.org/ January 11-15, 2014 Town and Country Convention Centre, San Diego, California

Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXII International conference. The workshop is scheduled on Saturday, January 11, 2014. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide association studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 18, 2013. You will be notified by October 23nd whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

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XTBG Yunnan ForestConservation

Topics in Tropical Asian Forestry: technology meets conservation

*Course description ::*Deforestation in Asia is progressing at a faster rate than any other tropical area, reducing natural forest cover to its lowest level in the Quaternary Period. A variety of modern technologies have been developed that can accelerate and invigorate conservation. This course will focus on how nascent techniques can be used to monitor change in habitats and biodiversity. We will investigate technological and analytical advances in tropical conservation before developing a group project to implement these methods to monitor species richness or biotic interactions. We expect that group projects will result in at least one multi-authored publication.

The course will consist of two parts: an online lecture/discussion course in Spring 2014 and a four week field course in June 2014 at the Xishuangbanna Tropical Botanical Garden (XTBG) in Yunnan, China, a research institute in the Chinese Academy of Sciences. All travel and accommodation expenses will be paid for 18 graduate students from any graduate degree granting institution in the U.S.A. or tropical Asia, funded by the US National Science Foundation. An additional 12 mainland Chinese graduate students will be funded by the Chinese Natural Science Foundation.

*Instructors :: *Chuck Cannon and David Lohman

Texas Tech University & City College of New York Chinese Academy of Sciences City University of New York

www.ecologicalevolution.org
www.sci.ccny.cuny.edu/lohman/

*Online course ::*Students will watch lecture videos online prior to participating in a guided discussion that will meet online once a week in Spring 2014 (February - May). Students will form partnerships with classmates and perform research projects on specific regions of the Asian tropics. Given the ease of web-based global communication, the students will be expected to develop proficiency in communicating with peers across technological, geographical, and cultural boundaries. Guest lecturers for the course include Richard CORLETT (XTBG), Rhett HARRISON (Kunming Institute of Botany), Erik MEIJAARD (People and Nature Consulting), Douglas SHEIL (Director, Institute of Tropical Forest Conservation), Cam WEBB (Arnold Arboretum/Harvard), and Jianchu XU (Chief Scientific Officer, ICRAF/China).

*Field course ::*The Xishuangbanna Tropical Botanical Garden (_http://english.xtbg.cas.cn/_) has been performing scientific research and providing agro-forestry outreach and training for over 50 years in the remote southwestern corner of China, near the borders of Laos and Myanmar. With an active community of international scientists and graduate students, XTBG is a leading ecological and botanical research institute in the Chinese Academy of Sciences. All students enrolled in the course will travel to XTBG in June 2014 to participate in field training, taxon-specific survey techniques, and to complete one or more group projects. Several guest lecturers from the online course will also give presentations during the field the course, including additional lecturers, e.g. HE Fangliang (Ualberta), LUO Shu-jin (Peking U.) and others.

*When/where:*4 weeks in June-July 2014 at XTBG, Yunnan, China

To apply, please visit one of the following sites: _http://www.pfs-tropasia.org/_ or _http://-www.ecologicalevolution.org/training/_). Download, fill out, and submit the provided spreadsheet to titaf2014@gmail.com. The deadline for applications is November 15, 2013. If you have any questions about the course, please email chuck.cannon@ttu.edu or djlohman@gmail.com

chuck.cannon@gmail.com

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.