E v o l D i r

October 1, 2011

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

Foreword

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

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

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

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Conferences

Dallas MigrationDispersal Oct5-6

Dear EvolDir,

I am pleased to invite you to the annual meeting of USDA-NCERA-213: Migration and Dispersal of Agriculturally Important Biota, which will be held at the Texas AgriLife Urban Solutions Center at Dallas (17360 Coit Road, Dallas, Texas 75252 Phone: (972) 231-5362). Migration and dispersal are important aspects of the biology of many agricultural pests, including plant pathogens and insects. Members of our committee are working to understand and predict these processes to improve approaches to preventing crop injury by pests. Members of our committee implement and integrate modern evolutionary and ecological techniques including molecular diagnostics, population genetics, genetics of adaptation, invasion pathways, aerobiology sampling and modeling, and information system software development. For more information, please see our website: http://ncera148.psu.edu/ . The meeting will convene at 8:30 am on Wednesday, October 5 and adjourn at noon on Thursday, October 6. The meeting will be organized into thematic areas such as: pathogens, arthropods, population genetics, information systems for aerobiology and biosecurity and general topics. Graduate student presentations are always encouraged. Please let us know if you have interested graduate students wishing to present their research.

A block of rooms has been reserved at the Holiday Inn Express at Addison, TX (4355 Beltway Drive, Addison, TX 75001, Ph: 972-503-7800). Rooms are $85/night, not including taxes. Breakfast is provided in the room cost. Please use "NCERA-213 MEETING" when making the reservation. The hotel will provide shuttles to and from the Urban Solutions Center. There is no registration fee for the meeting.

Please RSVP Andy Michel (michel.70@osu.edu) before Sept 9 if you 1) plan to attend the meeting and 2) would like to present a topic on Wednesday.

For more information about this group or the meeting, please contact Andy Michel.

amichelosu@gmail.com

Dublin SMBE2012 Jun23-26 CallSymposia

Hi folks,

This is to let you know that the call for proposals for symposia for SMBE2012 in Dublin, Ireland is now open.

The conference will be held at the Dublin Convention Centre from June 23rd to June 26th, 2012.

There will be approximately 24 symposia, but this will depend on the proposals received.

Each symposium will receive funding (approximately 1,500 Euro) to help defray the costs of the invited speakers.

We would like each symposium to have two organizers.

Ideally a symposium should have two invited speakers (30 minute slots) and we would then expect to have 6-8 speakers (15 minute slots) from the contributed abstracts. Alternative models can be used, if they are justified.

The deadline for submission of proposals is October 31st, 2011. We will then announce the successful symposia on Monday, November 7th at which time the call for abstracts will be opened.

The conference website is now live at: http://-smbe2012.org/ The proposal form can be found at: http://www.smbe2012.org/scientific-content.html You can register your interest in the meeting here: http://-www.smbe2012.org/registration.html Regards,

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

Edinburgh NGS PlantEvolution Oct18-19

Next Generation Plant Ecology & Evolution workshop 2011 http://www.botanical-society-scotland.org.uk/-Next-Generation-Plant-Ecology-and-Evolution-workshop-2011 18 - 19th October 2011, Royal Botanic Garden Edinburgh

A two day workshop on how next generation sequencing technologies can transform research in plant ecology and evolution. Sessions include how to use NGS to: - Estimate gene flow and population level genetic differentiation (Leader: RÃ©my Petit, UMR BiodiversitÃ© GÃnes et CommunautÃ©s) - Understand adaptation and fitness (Leader: Michael Arnold, University of Georgia) - Sample diversity of environmental samples (Leader: Eric Coissac, UniversitÃ© Joseph Fourier) - Obtain the genes for a specified phenotype (Leader: Ian Baldwin, Max Planck Institute) - Generate more informative phylogenetic markers (Leader: Mark Chase, Royal Botanic Garden Kew) - Understand the genetic changes of speciation (Leader: Pam Soltis, University of Florida)

Keynote speakers: â Christian Lexer (University of Fribourg) â Douglas Soltis (University of Florida)

Registration deadline: 12th September 2011

Best wishes, Alex

– The Royal Botanic Garden Edinburgh is a Charity registered in Scotland (No SC007983)

Alex Twyford <A.Twyford@rbge.ac.uk>

KansasCity ArthropodGenomics May30-Jun2

Save the dates of 5/30-6/2 for the 2012 Arthropod Genomics Symposium & i5k Workshop and plan to attend!

--*-*-* Sixth Annual Arthropod Genomics Symposium*-*-*-*-*- MAY 31, 2012 (Thursday evening) to JUNE 2, 2012 â2012 Arthropod Genomics Symposium.âÂ The conference focuses on new insights gleaned from analyzing arthropod genomes and is designed for scientists interested in genomic studies of Arthropods, both model organisms and those of agricultural or health relevance. The program will include platform presentations, a welcome reception, a bioinformatics-related workshop and arthropod genomics-related poster sessions. A few poster abstract submissions will be selected for platform presentations. Postdoctoral, graduate, and undergraduate students are also encouraged to attend.Â Sessions conclude Saturday evening, followed by an optional banquet.Â

--*-*-* New this year:ÂÂ i5k Workshop*-*-*-*-*- MAY 30, 2012 (Wednesday morning) to MAY 31, 2012 (Thursday afternoon) âi5k Community Workshop:Â An international effort to sequence 5,000 of the worldâs key arthropod species.âÂ The Workshop will aim to bring together biologists, informaticists, and policy-makers to discuss and advance planning for the i5k initiative.Â Plans for the Workshop include presentations by top genomics and bioinformatics researchers and representatives from the primary sequencing centers, followed by breakout sessions focused on the critical components of i5k.Â The Workshop will conclude with a discussion of white papers and initial programmatic steps needed to initiate i5k projects.Â

VENUE:Â The symposium will take place at the Kansas City Marriott on the beautiful Country Club Plaza in Kansas City, Missouri.

REGISTRATION:Â Registration will be opening soon!Â

If you would like to join the ArthropodNews to ensure receiving future notices, please send an e-mail with your name and e-mail address to dmerrill@ksu.edu .

Arthropod Genomics Institute Kansas State University dmerrill@k-state.edu

dmerrill@k-state.edu

KansasCity Genomics Nov4-6 Registration

REGISTRATION is now openâ ...to attend the 9th Annual âGenes in Ecology, Ecology in Genesâ Symposium on November 4, 5, & 6, 2011, in Kansas City.Â We will convene in the Muehlebach/Marriott Hotel in downtown Kansas City at 6:00 p.m. on Friday and conclude on Sunday at noon.Â Please visit the Symposium website, www.ecogen.ksu.edu/symp2011 , to register for the Symposium.Â You may also register to attend the optional Saturday night banquet which will be held in the nearby Kansas City Power and Light District for an additional fee.

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

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

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

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

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

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POSTER SESSIONS:Â A poster session will be held on Saturday afternoon.Â Poster topics should be related to the field of Ecological Genomics.Â A LIMITED NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS.

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

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

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

Funding for this symposium is provided by Kansas State University.

Ecological Genomics Institute Directors:

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

dmerrill@k-state.edu

LaJolla DrosophilaSpecies Oct27-30

Drosophila Species Workshop X

The Tenth Drosophila Species Workshop will take place from Thursday October 27 through Sunday October 30, 2011 at the UCSD campus in La Jolla, California. The workshop employs hands-on approaches and will focus on the chracteristics of the melanogaster, repleta, virilis, and obscura species groups, including how to identify species, aspects of their biology and reproduction, and husbandry. Workshop instructors include Patrick OGrady, Stephen Schaeffer, Sergio Castrezana, Masa Watada, Therese Markow, and Maxi Richmond. Reg-

istration is $400 and includes all instruction and materials, a dinner with keynote talk, morning and afternoon refreshments and one lunch. Space is limited. To apply, please send a one page statement of your research interests and why the workshop will be valuable to you to Dr. Maxi Richmond, UCSD Drosophila Species Stock Center: mrichmond@ucsd.edu

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

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

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

LaRochelle France AquaticGenomics Oct5 2

SECOND ANNOUNCEMENT Next generation sequencing and aquaculture - October 5, 2011 Ã La Rochelle.

Genomic approaches for aquatic species How can new technologies help to improve breeding and sustainability of farmed aquatic resources?

Context: Biotechnology evolves quickly offering new tools to researchers and producers to advance in the knowledge of fish and molluscsâ genomics with application in both ecology and production. AQUAGENET is a cooperation project funded by INTERREG IVB SUDOE program. Its main objective is to promote the interaction between scientists and aquaculture sector in the SUDOE area to apply the new biotechnologies to the sector. This synergistic cooperation implies a unique opportunity to join efforts to improve the competitiveness and development of aquaculture in this area.

Topic of the workshop: The availability of genomic tools applicable in aquaculture is still scarce. Next generation sequencing (NGS) technologies provide the means to rapidly increase the availability of such tools. This workshop will form a unique opportunity to gather producers and researchers from various fields around the common theme of improving breeding and sustainability of farmed aquatic species with NGS.

Provisional program: Confirmed keynote speakers : Deborah Power (CCMAR, Faro, Portugal); Gregory Maes (LeuwenUniversity, Belgium); Florian Humily (Station Biologique de Roscoff, France). One day workshop divided in four sessions, one dedicated to NGS technologies followed by three sessions dedicated to their use in fish, molluscs and their pathogens. Language of the workshop will be English.

Registration will be free of charge; first come first serve basis up to 100 participants More information and registration form for NGS AQUAGENET workshop can be obtained at the following address: http://wwz.ifremer.fr/aquagenet_eng/News/-NGS-Workshop-La-Rochelle-Oct-05-2011 and sent by eâmail only: aquagenet.workshop@ifremer.fr

Marie-Laure BEGOUT <Marie.Laure.Begout@ifremer.fr>

Lisbon FishPhylogeography Nov26-27

2nd Call for Participants * * *Workshop on the Biogeography and Phylogeography of Atlantic Fishes* Date: 26-27 November 2011 Location: Lisbon, Portugal

Over the last several years a number of studies on the phylogeography of Atlantic fish have started to shed light on evolutionary processes in this taxa and in their marine environment. Some reviews devoted to biogeographic patterns, namely diversity patterns, historical refuges, dispersal routes and barriers, etc have been published in recent years. The aim of the workshop is to present a coordinated synthesis and discuss studies and perspectives on major patterns and give updates on the state of the art in Atlantic biogeography and phylogeography of fish and outline directions for future research.

The workshop will focus on a number of high profile keynote speakers and the aim is also to provide a forum in which early career students have an opportunity to discuss their work through informal poster presentations.

The meeting will be held in a location where speakers and attendants can spend quality time interacting informally, taking advantage of breaks and meals together.

Registration deadline: October 31st 2011

Please see details and register on http://-biocongroup.eu/Workshop_Atlantic/Home.html
andrelevy@gmail.com

NorthCarolina SEPEEG 2011 Oct21-23 ExtRegistration

Extended Registration deadline! SouthEastern Population Ecology and Evolutionary Genetics (SEPEEG 2011) - October 21-23, 2011

We still have plenty of spots open for SEPEEG 2011 and the submission deadline has been extended to OCT 7th! The meeting will take place October 21-23 at The Besty-Jeff Penn 4H center in Reidsville, NC (about 40 minutes north of Greensboro, NC).

http://sepeeg.bio.unc.edu The conference registration fee ($129) will cover on-site housing, meals, and entertainment. Keeping with the tradition of SEPEEG, the 2011 meeting will be informal and accommodations will be on the rustic side. Participants may register to give an oral presentation and/or poster. A poster session will be held during the social event after dinner Saturday. A keynote address will be given on Saturday morning. Keynote Speaker: Dr. Haven Wiley , University of North Carolina at Chapel Hill

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

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

On Behalf of SEPEEG,

Dr. Corbin D. Jones

Organizer

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

cdjones@email.unc.edu

Porto Portugal HumanDNAVariability Nov23-25

Dear Evoldir Subscribers,

This is to inform you that the final scientific program of the conference:

"Comparing Ancient and Modern DNA Variability in Human Populations" to be held in Porto (Portugal) next November (24; 24; 25) is NOW AVAILABLE.

Registrations are now open!

Conference website: http://www.mnhn.fr/mnhn/-ecoanthropologie/Porto2011/Porto2011_index.html
We are looking forward to see some of you in Portugal!

Yours sincerely,

Franz Manni and Jorge Rocha

Dr. Franz Manni UMR 7206 National Museum of Natural History - Musée de l'Homme

Maître de conferences / Lecturer Executive Editor of "Human Biology", (Wayne State University Press, Detroit (MI), USA www.humbiol.com 1. Physical address: 61, Rue Buffon, 75005 Paris - France 2. Postal address: CP 139, 57 rue Cuvier, 75231 Paris Cedex 05 - France

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Franz Manni <manni@mnhn.fr>

Prague PolyploidyBiodiversity May7-10

Dear all,

this is the first announcement for the International Conference on Polyploidy, Hybridization, and Biodiversity (ICPHB2012) which will take place from 7-10 May 2012 in Prùhonice near Prague, Czech Republic.

The International Conference on Polyploidy, Hybridization and Biodiversity aims at promoting knowledge exchange and discussion of the latest developments concerning these major drivers of genome shaping and evolution. A wide range of topics will be covered such as polyploid speciation and phylogeny; diversity of reproductive modes and their impact on population structure; analysis and modeling of population structure; influences of polyploidy and hybridization on genome and chromosome structure, transcriptome, metabolome, physiology, development, and ecological adaptation; accommodation of epigenetics into evolutionary concepts; external and internal factors driving genome dynamics and evolution; ecological and molec-

ular aspects of biological invasions; and consequences of polyploidy on biodiversity. The conference shall be open to all groups of organisms in which polyploidy and hybridization are playing a role, but plants will naturally be more in the focus.

Prùhonice, a village about 16 km southeast of the center of Prague, is considered as the Beverly Hills of Prague. Its beautiful castle and famous park with its extensive collection of native and introduced species are part of the Institute of Botany, Academy of Sciences of the Czech Republic. The park is a beautiful and calm place for recreation and attracts tourists and locals alike. The Congress and Educational Centre Floret, the castle and park, hotels, and restaurants are in close vicinity, mostly within a radius of a few hundred meters. Prùhonice can be easily reached by car and is connected by bus lines to Prague.

Scientific Committee: Jonathan Wendel (Iowa State University, USA), Anna Koltunow (CSIRO Plant Industry, Adelaide, Australia), Malika Ainouche (University of Rennes 1, France), Brian Husband (University of Guelph, Canada), Andrew Leitch (Queen Mary University of London, UK), Maurine Neiman (The University of Iowa, USA), Barbara K. Mable (University of Glasgow, UK), Jaroslav Dolezel (Institute of Experimental Botany ASCR, Czech Republic), Ales Kovarik (Institute of Biophysics ASCR, Czech Republic), Judith Fehrer (Institute of Botany ASCR, Czech Republic).

Invited speakers: Pam Soltis (Florida Museum of Natural History, USA), Jonathan Wendel (Iowa State University, USA), Jeff Bennetzen (University of Georgia, USA), Jeff Doyle (Cornell University, USA), Petr Pysek (Institute of Botany ASCR, Czech Republic), Brian Husband (University of Guelph, Canada), Frank Blattner (IPK Gatersleben, Germany), Anna Koltunow (CSIRO Plant Industry Adelaide, Australia), Ortrun Mittelsten-Scheid (Gregor Mendel Institute of Molecular Plant Biology, Austria).

If you are interested to obtain further information about this conference, please subscribe to the mailing list (submenu 'General information'). http://-icphb2012.ibot.cas.cz/index.html Registration and abstract submission will open later this year.

With best wishes,

Judith Fehrer (Institute of Botany ASCR, Czech Republic) Ales Kovarik (Institute of Biophysics ASCR, Czech Republic)

Judith Fehrer <Judith.Fehrer@ibot.cas.cz>

UPorto Portugal Biodiversity Dec5-6

FIRST ANNOUNCEMENT - Trends in Biodiversity and Evolution 2011

We are pleased to announce the third edition of the "Trends in Biodiversity and Evolution - TiBE2011" conferences organized by CIBIO (Research Centre in Biodiversity and Genetic Resources, University of Porto, Portugal; http://cibio.up.pt).

The TiBE conferences aim at joining researchers and students working on the field of evolutionary biology to discuss cutting-edge topics related with speciation, molecular evolution, comparative genomics, population and conservation genetics research, among others.

Held in an informal but stimulating scientific atmosphere, these conferences provide an excellent opportunity for strong interaction and brainstorming between students and more experienced researchers. The programme of last year's edition can be found at http:/-/cibio-tibe2010.org . This year the TiBE conferences will be devoted to NEW CHALLENGES IN CONSERVATION GENETICS. The conferences will take place on the 5th and 6th of December 2011 at CIBIO facilities in Vairao (near Porto), Portugal. It will include 4 invited plenary talks, 16 oral communications (to be selected) and poster sessions.

Confirmed invited speakers: Jeffrey M. Good, Division of Biological Sciences, University of Montana, USA. Lounès Chikhi, Instituto Gulbenkian de Ciência, Portugal. Philip W. Hedrick, School of Life Sciences, Arizona State University, USA.

More information will be announced very soon.

Contacts: E-MAIL: tibe2011@mail.icav.up.pt PHONE: +351 252660411 FAX: +351 252661780 ADDRESS: Campus Agrario de Vairao, 4485-661 Vairao, Portugal

jmeloferreira@mail.icav.up.pt

GradStudentPositions

AustNatlU FinchEvolution

PhD opportunity - The impact of fire on the endangered Gouldian finch

A PhD project is available investigating the role of fire in determining the distribution, foraging ecology and health of the endangered Gouldian finch (Erythrura gouldiae). This project is a collaboration between the Department of Environment and Conservation (DEC), Save The Gouldian Fund (STGF) and Australian National University (ANU). The student will be based in the Research School of Biology at Australian National University (Canberra) under the supervision of Dr Sarah Pryke (ANU, STGF) and will be co-supervised by Dr Ian Radford (DEC).

This is an exciting cross-disciplinary initiative that combines fire and plant ecology with conservation and animal behaviour. The project will address a large knowledge gap about how fire affects the distribution, diversity and health of tropical Australian finches, and especially the endangered Gouldian finch, in the eastern Kimberley of Western Australia. Although common until relatively recently, the Gouldian finch is now one of Australias most endangered birds. The reason for this rapid decline remains untested at present, but it is thought that frequent hot fires severely reduce the availability and diversity of perennial grass seeds (the Gouldian finches diet), causing the finches to starve. This project will experimentally test this idea by: (1) investigating how birds are distributed in relation to habitat quality (fire histories); (2) testing the role that fire plays in the distribution, abundance and diversity of perennial grass seeds; (3) evaluating the relative role of fire-sensitive food resources in determining breeding, habitat use and dispersal decisions; and (4) determining the health and success of different populations under different fire regimes. This project has implications for understanding how fire affects the behaviour, habitat use and distribution of fire-sensitive species, and for generating large-scale fire management strategies to effectively conserve and promote the endangered Gouldian finch.

Applicants should preferentially have a background in fire, landscape or plant ecology and relevant experi-

ence working in remote field sites. This project will be largely field-based in the eastern Kimberley of Western Australia, with the student based at the Save The Gouldian Fund Research Station in Wyndham.

The opportunity is only open to Australian and New Zealand Citizens (permanent residents of Australia). The candidate will need to obtain an Australian Postgraduate Award (APA) scholarship at ANU, and thus eligibility includes a Bachelors degree with First-class Honours, or a research Masters degree from a recognised university. APA scholarships include a stipend and allowances for relocation and thesis costs, and additional funding will be provided through ANU and Save The Gouldian Fund to cover field expenses.

Interested students should email their CV (including details of two academic referees), academic record, and research interests to Dr Sarah Pryke (sarah.pryke@mq.edu.au).

Closing date 16 October 2011

Dr Sarah Pryke Department of Biological Sciences Macquarie University Sydney, NSW 2109, Australia phone: 0431 746 276 http://sarahpryke.com/ Sarah Pryke <sarah.pryke@mq.edu.au>

Barcelona AdaptiveEvolution

Institute of Evolutionary Biology. Barcelona, Spain. Adaptive evolution.

A PhD position is available at the Institute of Evolutionary Biology (IBE), a joint research institute between the Spanish National Research Council (CSIC) and the Pompeu Fabra University (UPF) located in Barcelona, Spain. The student will join a collaborative research group studying the molecular process and functional consequences of adaptation.

The project includes a combination of state-of-the-art and classical techniques such as next-generation sequencing data, population genetics, gene expression and experimental evolution analyses that will be applied to the study of mutations identified in natural populations.

We are looking for highly motivated candidates willing to work both independently and in collaboration with other members of the research group. Applicants should have a degree in Biology or a related field. In addition, laboratory experience in molecular genetics and/or computational biology is desired.

Interested candidates should send a CV and statement of interest to Dr. Josefa González:

josefa.gonzalez@ibe.upf-csic.es

A first round of applications will be accepted until 15th September 2011.

Later applications will be accepted until 15th December 2011.

Josefa González, PhD Ramon y Cajal Researcher Institut de Biologia Evolutiva Passeig Maritim de la Barceloneta 37-49 Barcelona, 08003. Spain.

+34 93 2309500 (ext 6018) www.stanford.edu/~jgonzalp "GONZALEZ PEREZ, JOSEFA" <josefa.gonzalez@ibe.upf-csic.es>

CSIRO Australia WeedPopulationGenetics

PhD position in evolutionary ecology of invasive wild radish populations in Australia

The evolutionary basis of invasiveness in weeds is a rapidly developing area of theoretical and empirical research. This project will explore possible mechanisms that influence invasiveness using wild radish (Raphanus raphanistrum) as a model system. You will use a phylogeographic approach, incorporating both chloroplast and SSR markers, to ascertain the colonisation history of wild radish in Australia and relate this to the evolution of invasiveness in this highly successful weed. This study should increase our understanding of the ecological and evolutionary significance of several possible mechanisms that generate invasiveness including evolution of the breeding system and intra- and inter-specific introgression. This 3 year studentship would be co-located at the University of Canberra and the the CSIRO Division of Plant Industry. At CSIRO the student would work with Professor Andrew Young and Dr Jenny Pierson and at the University of Canberra with Assistant Professor Paul Downey. For details of University of Canberra graduate scholarhips and requirements please go to: http://www.canberra.edu.au/centres/iae/index.php Contact: Assistant Professor Paul Downey (UC) or Professor Andrew Young (CSIRO) Email: andrew.young@csiro.au or Paul.Downey@canberra.edu.au

Prof. Andrew Young Director, Centre for Australian

National Biodiversity Research CSIRO Plant Industry GPO Box 1600, Canberra ACT 2601, Australia Ph: +61-2-6246-5318 Fax: +61-2-6246-5166 PA: Ms Cath Reed Ph: +61-2-6246-5084 Web: www.csiro.au Andrew.Young@csiro.au

ETH Zurich HostParasite

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

"Alternative resistance systems in host-parasite interactions"

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

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

EuropeanGradSchool EvolutionaryBiol

Dear colleagues,

I am pleased to inform you that the European Graduate School in Animal Breeding and Genetics offers PhD positions scheduled to start in September 2012. Erasmus-Mundus fellowships are available for non-EU and EU students. For the list of PhD projects, see: http://www.egsabg.eu/spip.php?article13 Information about the first year of this programme are available in our Newsletter: http://www.egsabg.eu/IMG/pdf/-EGS-ABG_Newsletter_2011-1.pdf Best regards, Etienne Verrier EGS-ABG Coordinator

Grégoire Leroy <gregoire.leroy@agroparistech.fr>

Finland 5 PopulationGenetics

The Finnish graduate school in population genetics

The graduate school in population genetics is funded by the Ministry of Education and Culture and the Academy of Finland. The school builds a doctoral program and trains graduate students in the broad area of population genetics. The students take formal courses and carry out research work and complete a doctoral thesis in about four years.

The students entering the school should join a research project led by one of the supervisors that are members of the school. The topics covered by different projects include evolutionary genetics, bioinformatics, genetic epidemiology, gene mapping, plant and animal breeding, conservation genetics, molecular anthropology and archaeology, and risks associated with GMO (more information can be found at http://-www.oulu.fi/biology/PopGenSchool/index.html). The working place depends on the research group and the supervisor. The minimum starting salary (1740 EUR) is set by the Ministry of Education and Culture which finances the graduate school, but the local university (research group) normally pays a somewhat higher salary. The positions include minor teaching duties. Each student will apply for study rights for a Ph.D.

at the University they have chosen. The criteria can differ between Universities and more information on the Ph.D. studies at each university can be found for Oulu at http://www.oulu.fi/yliopisto/uniogs, for Helsinki at http://www.helsinki.fi/admissions/-postgraduate_applicants.htm and for Turku at http://www.utu.fi/en/studying/students/degree/-postgraduate/index.html . The school announces five positions for PhD students, starting at the beginning of 2012. The positions are maximally for four years. The application should include (when applicable):

1.Filled application form which can be found at http:/-/www.oulu.fi/biology/PopGenSchool/news.htm 2.CV including the topic and grade of MSc thesis (max 2 pages) 3.a list of publications 4.a training plan for PhD studies (what type of formal training, courses etc you would like to have) 5.a short (half a page) description of a career plan (why this type of training) 6.a plan for PhD research (a research plan or a good description of the direction the student wants to take), including information on potential supervisors (max 2 pages) 7.contact information of two referees

Please send the filled application form to lumi.viljakainen@oulu.fi. The other documents (2.-7.) should be sent (as a single pdf-file) to kirjaamo@oulu.fi (subject: Application for Population Genetics Graduate School position) or by regular mail University of Oulu, Kirjaamo, PL 8000, 90014 University of Oulu, Finland). The deadline for the applications is 14 October 2011 by 3PM.

If necessary, some of the applicants may be invited for an interview in early November. The results of the call will be published on the graduate school web page by November 15. The students chosen for the positions or those on the reserve list will be notified by personal email.

For additional information, please contact Outi Savolainen (Outi.Savolainen@oulu.fi) or the coordinator of the school (Lumi.Viljakainen@oulu.fi) or directly the project leader you would like to work with (http:/-/www.oulu.fi/biology/PopGenSchool/index.html).

lumi.viljakainen@gmail.com

GeorgeWashingtonU Systematics

Systematics and Herpetology in Washington, D.C.

The Pyron Lab at The George Washington University seeks Master's and doctoral students for the Fall of 2012 who are interested in historical biogeography, phylogeography, and the theory and practice of systematics. Graduate students will be part of the Robert Weintraub Program in Systematics and Evolution in the Department of Biological Sciences, a joint graduate program of GWU and the National Museum of Natural History at the Smithsonian. The major areas of research in my lab are global and regional drivers of biodiversity, speciation processes and phylogeographic patterns, and the development of statistical methods in phylogenetics and systematics. I invite students to develop their own fully-fledged, independent research projects along these lines. Empirical research in the lab primarily focuses on reptiles and amphibians.

The program at GWU offers fantastic opportunities for anyone interested in systematics and evolutionary biology. In addition to my research, faculty in the department work on a wide variety of topics in evolution. The Weintraub program is affiliated with the Smithsonian's National Museum of Natural History, providing for SI curators to co-advise students, and access to one of the best natural history collections in the world. Finally, Washington, D.C. is full of historical, cultural, and culinary amenities. The biology buildings are only four blocks west of the White House.

If you are interested, please go to my website (http:/-/www.colubroid.org/) for more information. Various funding opportunities are available for well-qualified applicants. Experience with molecular, computational, and field collection techniques is an important consideration. Interested persons should email me with a CV, research interests, and GRE scores. The deadline for application to GWU is 15 January 2012.

R. Alexander Pyron, Ph.D. Robert F. Griggs Assistant Professor of Biology Department of Biological Sciences The George Washington University Washington, D.C. 20052 rpyron@colubroid.org 202-994-6616

rpyron@colubroid.org

HelsinkiU 2 EvoDevo

Helsinki University Institute of Biotechnology Helsinki evo-devo research community

Salazar-Ciudad group

We are looking for two students, preferably biologists, to start two grants for two PhDs in systems biology

and/or evo-devo about:

-Gene network simulations of pattern formation, morphogenesis and morphological evolution of mammalian organs.

or/and

-Variational phenomics, 3D morphometrics, development and evolution

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

Programming skills or a willingness to acquire them are required.

The grants are provided through the Finnish academy of sciences. One of the positions is between Isaac Salazar-Ciudads Group and Jukka Jernvall's group and the other is in Isaac Salazar-Ciudad's group. The exact topic of the theses would be discussed in detail after an interview.

For an outline of the groups' research:

http://www.biocenter.helsinki.fi/bi/evodevo/-group_isaac.shtml http://www.biocenter.helsinki.fi/-bi/evodevo/index.shtml For further inquiries:

isaac.salazar@uab.cat

Article example:

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

Salazar-Ciudad I. Morphological evolution and embryonic developmental diversity in metazoa. Development. 2010 Feb;137(4):531-9.

Isaac Salazar Ciudad <Isaac.Salazar@uab.cat>

LMU Munich Hybridization

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

A PhD students in Evolutionary Ecology

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

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

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

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

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

is necessary for admission. The working language in the group is English.

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

wolinska@bio.lmu.de

Please submit your application by 13 October 2011.

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

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

Phone: +49 (0)89 2180 74201 Fax: +49 (0)89 2180 74204 email: wolinska@bio.lmu.de http:/-/www.biologie.uni-muenchen.de/ou/ecology/-evol_e/people_wolinska_e.html Justyna Wolinska <wolinska@bio.lmu.de>

MaxPlanckInst EvolutionaryBiol

We are a seeking a motivated PhD student to join our research team working on the interaction of evolution and ecology at the Max Planck Institute for Evolutionary Biology in Plön, Germany.

Evolution in action has recently been recognized as an important player for many ecological interactions. It is now well recognized that evolutionary change can affect the interaction between species within in a few generations and that ecological interactions may influence the outcome of evolution in return. This project uses fast growing aquatic organisms (algae, viruses, rotifers) that allow tracking of evolutionary change and ecological dynamics in combination with subsequent analysis through mathematical modeling. For details of the study system refer to Becks et al. 2010 Ecology Letters, Becks & Agrawal 2010 Nature, Ellner & Becks 2011 Theoretical Ecology.

We are looking for a highly motivated ecologist or evolutionary biologist to join our newly formed group ?Community dynamics? at the Max Planck institute for Evolutionary Biology. The ideal candidate is fascinated by evolutionary and ecological questions, independent and creative. She/he has a background in evolutionary biology, population or community ecology and has worked with aquatic systems before. A MSc (or equivalent) in Biology is required. For more information on the project contact Lutz Becks (lbecks@evolbio.mpg.de).

The institute offers a stimulating international environment and an excellent infrastructure with access to state-of-the-art techniques. The town of Plön is in the middle of the Schleswig-Holstein lake-district within a very attractive and touristic environment near the Baltic Sea, close to the university towns of Lübeck and Kiel. Hamburg and Lübeck are the closest airports.

The position is funded for three years, starting as soon as January 2012. Please apply by sending your CV, including the email addresses of two referees, and a letter of motivation to Lutz Becks (lbecks@evolbio.mpg.de). Review of applications will continue until the position is filled.

The Max Planck Society is an equal opportunity employer.

LBecks@uni-koeln.de

MaxPlanckInst HouseSparrowEvolution

PhD Behavioural ecology of house sparrows

A PhD position is available at the Max Planck Institute for Ornithology in Seewiesen (near Munich, Germany) starting in autumn/winter 2011 to study the ecological causes of variation in reproductive behaviour in a population of captive house sparrows (Passer domesticus).

We seek a highly motivated student with a background or strong interest in ecology, evolution, and behaviour. The ideal candidate is fascinated by questions in behavioural ecology, has a good knowledge of statistical analysis and excellent writing and presentation skills. He/she will be expected to work independently and creatively in the field with the possibility to develop her/his own research questions. Commitment to the project and readiness to contribute to the research of the group are essential.

Our department has a main focus on the ecology and evolution of avian mating systems using a variety of

model species. The research on the house sparrows involves a long-term captive breeding population. Our aim is to understand the ecological factors influencing reproductive decisions of individuals from mating to parental care. The work will involve developing and conducting experiments, breeding captive birds, behavioural testing and observations, data base management, and possibly parentage analysis.

The institute offers a stimulating international environment and an excellent infrastructure with access to state-of-the-art techniques. Seewiesen is located in an attractive area, close to the culturally active city of Munich, and to the lakes and mountains of the Alps.

The position is funded for three years, starting as soon as 1 November 2011. Applications should include a concise statement of research interests and work experiences relevant to the project, curriculum vitae and contact details for 2-3 academic references. Please send your application as a single file (Word-doc or pdf) to cdobus@orn.mpg.de. For further information please do not hesitate to contact Prof. Dr. Bart Kempenaers at b.kempenaers@orn.mpg.de.

The Max Planck Society is an equal opportunity employer.

schlicht@orn.mpg.de

MonashU 2 InvasionDynamics

Two PhD projects will be offered from 2012 in the Evolutionary & Invasion Biology research group at Monash University, Melbourne, Australia (http://-www.biolsci.monash.edu.au/staff/chapple/).

The two projects are part of a long-term research project on the invasion dynamics of the delicate skink, *Lampropholis delicata*. The delicate skink is native to eastern Australia, but has successfully invaded several regions of the Pacific (New Zealand, Hawaiian Islands, Lord Howe Island). Previous research in the group has used molecular markers to identify the source population(s) for each introduction, examined post-introduction molecular and morphological evolution, and investigated the behavioural traits that enhance the likelihood of human-assisted dispersal.

Project 1: The role of behaviour and behavioural syndromes in the invasion success of the delicate skink:

Recent research has indicated that particular behavioural traits, or suites of correlated traits (behavioural syndromes), may enhance the success of introduced species at particular stages of the invasion process. The project will use a series of field and laboratory-based studies to investigate the role of behaviour in the success of the delicate skink as an invasive species. The project will be co-supervised by Dr Bob Wong (Monash University).

Project 2: Evolutionary ecology and climatic adaptation of invasive delicate skink populations:

This project will involve a series of field and laboratory-based experiments to investigate climatic adaptation in *Lampropholis* and the invasive populations of the delicate skink. The study will examine populations across both the native and introduced range. It will also examine the behavioural interactions in the introduced range among individuals from genetically divergent source populations (i.e admixture). The project will be co-supervised by Prof Mike Thompson (University of Sydney).

Interested students should email their CV (including details of two academic referees), academic record, and research interests to Dr David Chapple (David.Chapple@monash.edu) by Monday 3rd October. For each project, one applicant will be selected to complete and submit an online PhD scholarship application by the 31st October deadline (a mid-year scholarship round [31stMay] may be available for highly-qualified students who are unable to make the October deadline).

Students will need to successfully obtain a PhD scholarship. Australian and New Zealand citizens can apply for an Australian Postgraduate Award (APA) or Monash Graduate Scholarship (MGS). International students can apply for an IPRS or Monash Graduate Scholarship. For further information regarding PhD entry requirements see: http:/-/www.mrgs.monash.edu.au/scholarships/apply/ Dr David Chapple Lecturer in Evolutionary & Invasion Biology School of Biological Sciences Monash University Clayton VIC 3800, Australia

Ph: +61-3-9905 3015 Fax: +61-3-9905 5613 Email: david.chapple@monash.edu

Website: http://www.biolsci.monash.edu.au/-staff/chapple/ David Chapple <david.chapple@monash.edu>

NewZealand Insect Genomics

Two PhD positions, in the School of Biological Sciences at the University of Auckland and funded by the Allan Wilson Centre for Molecular Ecology and Evolution, are available in insect genomics and genome evolution. These positions will be based at Landcare Research on the Tamaki campus of the University of Auckland. Both students will be primarily supervised by Thomas Buckley and co-supervised by Richard Newcomb and Howard Ross, all of the Allan Wilson Centre and the University of Auckland. The successful candidates will have an interest and experience in bioinformatic analysis of genomic data and computational evolutionary biology.

Project 1: Genome evolution, speciation and molecular population genetics of giant weta

Giant weta (Insecta, Orthoptera) are the largest insects on earth and some species are highly endangered. This project involves genome sequencing a species of giant weta using Illumina technology, followed by genome assembly, annotation and comparative analysis. The draft genome will be used as a template for downstream transcriptome and RAD-tag studies of variation within and among other giant weta species. The transcriptome studies will target various phenotypic characteristics such as reproductive and sensory processes. The data will be used to examine processes of adaptation within and among species. The conservation implications of these data will be an important aspect of the research.

Project 2: Genome evolution, speciation and molecular population genetics of stick insects

The common stick insect (Clitarchus hookeri) is widespread through much of New Zealand. This species is particularly interesting at it is a geographic parthenogen and is closely related to other species, one of which it has hybridized with. The successful candidate will perform Illumina sequencing and assemble and annotate a draft genome of this stick insect species. The draft genome will be used as a scaffold for further RAD-tag studies of SNP variation within C. hookeri and among closely related species. Transcriptome data will also be collected and mapped to the draft genome for study of various phenotypic traits and selection and adaptation. Variation will be measured and compared within and among populations of C. hookeri and with closely related species.

Funding includes a $25,000 NZD per year scholarship and $5,000 for tuition fees.

For more information and host institutions and supervisors' research interests see the following links: http://www.allanwilsoncentre.ac.nz/ http://www.landcareresearch.co.nz/ Associate Professor Thomas Buckley http://-www.bioscienceresearch.co.nz/staff/thomas_buckley/ http://www.landcareresearch.co.nz/research/-staff_page.asp?staff_num=3D1110 Associate Professor Richard Newcomb http:/-/www.bioscienceresearch.co.nz/staff/richard-newcomb/ Dr Howard Ross http://-www.bioscienceresearch.co.nz/staff/howard-ross/
To apply for either of these position please contact Thomas Buckley at the email address below. Potential candidates should submit a CV, two references, and a short statement of research interests to:

Thomas Buckley buckleyt@landcareresearch.co.nz +64-9-574-4116

Thomas Buckley Research Group Leader, Landcare Research Associate Professor, University of Auckland

Tel: (+64 9) 574 4116 | Fax: (+64 9) 574 4101 | Email: buckleyt@landcareresearch.co.nz Post: Private Bag 92170, Auckland, New Zealand | Web: http://www.landcareresearch.co.nz/-research/staff_page.asp?staff_num=1110 BuckleyT@landcareresearch.co.nz

StonyBrookU EvolutionaryBiol

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution in the Department of Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2012. The program trains students in Ecology, Evolution and Biometry. The following faculty are seeking graduate students:

H. Resit Akcakaya http://life.bio.sunysb.edu/-ee/akcakayalab/ Stephen B. Baines http://-life.bio.sunysb.edu/ee/baineslab/ Michael A. Bell http://life.bio.sunysb.edu/ee/belllab/ Liliana M. Dávalos http://life.bio.sunysb.edu/ee/-davaloslab/how2succeed.html Lev Ginzburg http://-

life.bio.sunysb.edu/ee/ginzburglab/ Catherine Graham http://life.bio.sunysb.edu/ee/grahamlab/ Jessica Gurevitch http://life.bio.sunysb.edu/gurevitchlab/ Heather Lynch http://lynchlab.wordpress.com/-opportunities/ Dianna K. Padilla http://-life.bio.sunysb.edu/ee/padillalab Joshua Rest http:/-/life.bio.sunysb.edu/ee/restlab/ John Wiens http:/-/life.bio.sunysb.edu/ee/wienslab/homepage.html For more information regarding the Graduate Program in Ecology and Evolution see http://life.bio.sunysb.edu/-ee and http://life.bio.sunysb.edu/ee/programs.htm The deadline for receipt of all application materials for the PhD program is January 15, 2012 although earlier submission is encouraged to ensure full consideration for available fellowships. The deadline for receipt of all application materials for the master's program is April 15, 2012. For additional assistance, e-mail our Graduate Program Coordinator, Lee Stanley, astanley@notes.cc.sunysb.edu

Liliana M. Davalos

Assistant Professor Consortium for Inter-Disciplinary Environmental Research (CIDER), and Ecology and Evolution, SUNY Stony Brook

Office phone: 631 632 1554

http://life.bio.sunysb.edu/ee/davaloslab/-Welcome.html lmdavalos@gmail.com

StPeeNivelle France SalmonidSexualSelection

PhD Sexual selection in salmonids under global change, St Pée/Nivelle, France

We are seeking a postgraduate student for a 3-year PhD (starting in fall 2011) on the interplay between the choice of spawning site, early stage survival and sexual selection in brown trout. The project is managed by researchers from the UMR INRA-UPPA ECOBIOP (St Pée/Nivelle, France) and the Stream Ecology Group at University of Basque Country (Bilbao, Spain).

More information on: http://www.bordeaux-aquitaine.inra.fr/st_pee/ Candidates should be kin on field work, and competent in experimental procedures and statistical / theoretical modeling. Please send application (CV, name of two referees) to jacques.labonne@st-pee.inra.fr and cedric.tentelier@univ-pau.fr before the end of september 2011.

Cédric Tentelier UMR Ecobiop Université de Pau et des Pays de l'Adour Allée du parc Montaury 64600 Anglet 0033 5 59 57 44 47 0033 5 59 51 59 55 http://www.bordeaux-aquitaine.inra.fr/st_pee/ cedric.tentelier@univ-pau.fr

SyracuseU EvolutionaryBiol

Ph.D. Opportunities in Evolutionary Ecology

Segraves & Althoff Labs, Dept of Biology, Syracuse University

We are seeking exceptional students interested in studying the evolutionary ecology of species interactions in a dynamic, multi-lab setting. Our labs focus on studies of mutualism, coevolution, specialization, and speciation, and we use a combination of diverse tools including field studies, molecular phylogenetics, and population genetics. Although we primarily examine plant-insect and parasitoid-host coevolution, students interested in other taxonomic groups are strongly encouraged to apply. Research is question-driven rather than taxon-driven. Please visit our faculty pages for more information about ongoing projects in our labs (http:/-/biology.syr.edu).

For successful candidates, funding is guaranteed via teaching assistantships and research assistantships are pending. Syracuse University offers excellent benefits, a full tuition waiver, and a generous stipend (~$25K for 2011). Furthermore, the close proximity of S.U. to SUNY-Environmental Science and Forestry and Cornell makes this a strong and vibrant community that facilitates an exciting graduate experience.

Ph.D. positions in the Segraves and Althoff labs are available for Spring and Fall 2012. Prospective students are encouraged to contact either Dr. Kari Segraves (ksegrave@syr.edu) or Dr. David Althoff (dmalthof@syr.edu) and to complete a free, on-line pre-application form available at: http://biology.syr.edu/-grad/pre_app.htm . ksegrave@syr.edu

UAdelaide 3 BioinformaticsEnvironmentalGenomics

The following PhD position is available to Australian and New Zealand citizens and permanent residents only.

Bioinformatics for Environmental Genomics: PhD opportunity at the Australian Centre for Ancient DNA, Adelaide in association with Biomatters (N.Z.)

A PhD position is available within a large environmental genomics project to develop bioinformatic techniques to perform biodiversity surveys, taxonomic discovery, and forensic analyses using next- generation sequencing data. The project, which is a $1M Australian Research Council-industry partnership, will employ advanced bioinformatics and phylogenetic techniques to develop novel systems for rapid and accurate biodiversity assessment. This PhD will develop and apply novel bioinformatic approaches in the following areas: Biodiversity analysis of environmental genomic data from projects covering forensics, Antarctic biodiversity, water systems (natural and water supplies), and terrestrial ecosystems; Multigene comparative analysis of bio- and phylogenetic relationships between sites; Developing software for the Geneious bioinformatics workbench to analyse large complex environmental datasets.

The successful candidate will be hosted at Biomatters, Auckland for part of the project to facilitate training in software development for the Geneious platform.

We are looking for a highly motivated graduate student, who enjoys independent and unusual research. An interest in environmental biodiversity is a key requirement, and a background in any of the following would be useful: bioinformatics, programming, statistics/ mathematics, genetics, molecular biology. The project is for 3 years, starting in 2011/2012.

Note the closing date for applications is 31st October, however we advise you to contact the following supervisors, including a copy of your CV/resume, by Friday 14th October:

Prof. Alan Cooper (alan.cooper@adelaide.edu.au)

Dr. Laurence Clarke (laurence.clarke@adelaide.edu.au)

Australian Centre for Ancient DNA School of Earth & Environmental Sciences THE UNIVERSITY OF ADELAIDE SA 5005 AUSTRALIA

Telephone: +61 8 8303 3952 Facsimile: +61 8 8303 4364

http://www.adelaide.edu.au/acad/ —

The following PhD position is available to Australian and New Zealand citizens and permanent residents only.

Environmental Genomics for biodiversity assessment: PhD opportunity at the Australian Centre for Ancient DNA, Adelaide in association with Department of Primary Industries and Resources of South Australia (PIRSA)

A PhD position is available within a large environmental genomics project to apply next-generation DNA sequencing approaches to the analysis of environmental samples and develop a new range of methods to perform biodiversity surveys, taxonomic discovery, and underpin environmental impact reports. The project, which is a $1M Australian Research Council-industry partnership, will employ multiplexed PCR, 2nd/3rd Generation Sequencing, and advanced Bioinformatics and Phylogenetics to develop novel systems for rapid and accurate biodiversity assessment. This PhD will apply environmental genomics approaches to the following areas: Developing new tools for assessing biodiversity from environmental samples; Non-invasive methods to monitor the presence and abundance of threatened species; Investigating the relationship between biodiversity and biotic and abiotic factors, e.g. rainfall, geology, land-use history.

We are looking for a highly motivated graduate student, who enjoys independent and unusual research. An interest in environmental biodiversity is a key requirement, and a background in any of the following would be useful: molecular ecology, molecular biology, genetics, bioinformatics, chemistry/biochemistry. The project is for 3 years, starting in 2011/2012.

Note the closing date for applications is 31st October, however we advise you to contact the following supervisors, including a copy of your CV/resume, by Friday 14th October: Prof. Alan Cooper (alan.cooper@adelaide.edu.au)

Prof. Alan Cooper (alan.cooper@adelaide.edu.au)

Dr. Laurence Clarke (laurence.clarke@adelaide.edu.au)

Australian Centre for Ancient DNA School of Earth & Environmental Sciences THE UNIVERSITY OF ADELAIDE SA 5005 AUSTRALIA

Telephone: +61 8 8303 3952 Facsimile: +61 8 8303 4364

http://www.adelaide.edu.au/acad/ —

The following PhD position is available to Australian and New Zealand citizens and permanent residents only.

Environmental Genomics of freshwater systems: PhD opportunity at the Australian Centre for Ancient DNA, Adelaide in association with South Australian Water

A PhD position is available within a large environmen-

tal genomics project to apply next-generation DNA sequencing approaches to the analysis of environmental samples and develop a new range of methods

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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

UAlberta MountainGoatEvolution

We are looking for a PhD student to study quantitative trait variation in a long-term study of mountain goats. The study is a long-term collaboration between Steeve Côté (Laval University) and Dave Coltman (University of Alberta). The research involves demanding fieldwork at Caw Ridge, Alberta, for several weeks per year as well as genotyping and DNA sequencing in a state of the art molecular ecology laboratory. Prospective candidates must have an M.Sc. or B.Sc. (Hons.) degree with research experience in evolutionary ecology and be competitive for institutional, provincial and national scholarships. Canadians and non-Canadians are welcome to apply.

The student will be based at the University of Alberta, Department of Biological Sciences (http://www.biology.ualberta.ca/programs/graduate) in the Coltman lab (http://www.biology.ualberta.ca/faculty/david_coltman/). PhD students in Biological Sciences have access to 5 years of guaranteed funding.

If you have some combination of the following qualifications and assets: - field experience - molecular ecology laboratory experience - background in population or quantitative genetics - publication track record - experience in or willingness to learn bioinformatics and genomics - ability to work in a team - fluency in English and familiarity with French (or better) and you wish to apply, contact Dave Coltman (dcoltman@ualberta.ca) with your CV, statement of research interests, and names of 2 referees.

dcoltman@ualberta.ca

UFlorida EvolutionaryAnthropology

GRADUATE OPPORTUNITIES IN BIOLOGICAL ANTHROPOLOGY

The Graduate Program in Bioanthropology in the Department of Anthropology at the University of Florida (www.anthro.ufl.edu/biological_program.shtml) is recruiting doctoral level graduate students for Fall 2012. Please contact the following biological and biocultural anthropology faculty if you are interested in applying to our program:

Sue Boinski, PhD, Primate evolution, ecology, and social behavior, www.anthro.ufl.edu/faculty/Boinski.shtml David Daegling, PhD, Skeletal biomechanics, primate mastication, dental microwear, norphometrics, www.anthro.ufl.edu/faculty/Daegling.shtml Clarence C. Gravlee, PhD, Biocultural approaches to health and human development, human biological variation, race and racism, culture, stress, and disease, Puerto Rico, U.S., lowland South America, http://www.gravlee.org John Krigbaum, PhD, Paleoanthropology, bioarchaeology, human osteology, paleopathology, paleodiet reconstruction, Southeast Asia, www.anthro.ufl.edu/faculty/Krigbaum.shtml Connie Mulligan, PhD, Human genetic variation, genetics of complex disease, New World/Asia colonization, migrations out of Africa, ancient DNA, Yemen, Democratic Republic of Congo, U.S., Mongolia, www.anthro.ufl.edu/faculty/Mulligan.shtml Michael Warren, PhD, Forensic identification and trauma analysis, human variation, and analysis of cremated remains, www.anthro.ufl.edu/faculty/Warren.shtml Alyson Young, PhD, human biology/adaptability, nutrition, child growth, and long-term consequences of early environments, Tanzania, Kenya, http://alysongyoung.wordpress.com For more information on our graduate program see http://www.anthro.ufl.edu/graduate.shtml. The deadline for receipt of all application materials for the PhD program is December 15, 2011 (http://www.anthro.ufl.edu/graduate_instructions.shtml). For additional assistance, e-mail our Graduate Program Assistant, Juanita Bagnall, jjba@ufl.edu

Connie J. Mulligan, PhD Professor and Associate Chair, Department of Anthropology Associate Director, UF Genetics Institute 2033 Mowry Rd, PO Box 103610 University of Florida Gainesville, FL 32610-3610 Office: 409 Genetics Institute Telephone: 352-273-8092 Fax: 352-273-8284 Email: cmulligan@ufl.edu Website: http://www.clas.ufl.edu/users/mulligan/Webpage/index.html cmulligan@ad.ufl.edu

UFlorida HawkmothSystematics

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

The successful applicant will work on the systematics and evolution of hawkmoths, with special focus on the evolution of anti-bat ultrasound production and hearing in Sphingidae. The project will be part of a collaborative study on the evolution and behavioral strategies of hawkmoths and insectivorous bats. Labwork with DNA sequence data, active interaction with international collaborators, and extensive fieldwork in the tropics are expected. Experience in molecular, phylogenetic methods and/or bioinformatics is highly desirable.

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

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

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

UFribourg EvolutionaryGenomics

A PhD-position in evolutionary genomics

is available in a collaborative project of the research groups of Dieter Ebert (University of Basel, Switzerland) and Christoph Haag (University of Fribourg, Switzerland).

We are looking for a highly motivated candidate with interest in evolutionary genomics. A solid background in bio-informatics, genomics, and/or evolutionary genetics is helpful. The position is funded to work on mitotic recombination during asexual reproduction in Daphnia, but the exact project will be worked out together with the successful candidate. Previous experience with Daphnia is not required, yet excellent written, verbal, and interpersonal skills, good work ethics, and the ability to think creatively and critically are desired. The starting date is from November 2011 onwards.

The PhD student will be mainly located at Fribourg University, but will work in close collaboration with the group in Basel, where a second PhD student works on a related project. Details about the groups can be found on the following pages:

http://www.unifr.ch/biol/ecology/haag/-haag_lab_home.html http://evolution.unibas.ch/
Please send your application by E-mail to Christoph Haag (christoph.haag@unifr.ch). Applications should include a single pdf-file containing CV, a list of publications and a 1 page description of your research interests and motivation. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Applications received before 30 September 2010 will be given full consideration. Interviews will be held as soon as possible afterwards.

Contact information:

Dr. Christoph Haag University of Fribourg Department of Biology Chemin du Musée 10 CH-1700 Fribourg, Switzerland Email: christoph.haag@unifr.ch Phone: +41-(0)26-300 88 71

Prof. Dr. Dieter Ebert, University of Basel, Zoologisches Institut, Vesalgasse 1, CH-4051 Basel, Switzerland, Email: dieter.ebert@unibas.ch Phone: +41-(0)61-267 03 60

HAAG Christoph <christoph.haag@unifr.ch>

UGoettingen MolluscGenomics

PhD position in molluscan biomineralisation at the University of Goettingen, Germany:

A 3 year PhD position is available within the Courant Research Centre Geobiology to work on the molecular mechanisms of shell formation in the freshwater gastropod Lymnaea stagnalis. The successful candidate will join a small but growing group that applies molecular techniques to study the processes of biomineralisation in various organisms. The project will involve the high-throughput identification and characterisation of shell forming genes and proteins in L. stagnalis.

Resources available for this project include a shallow draft genome of L. stagnalis, next generation EST datasets derived from various tissues (including the

mantle) and a proteome dataset derived from the shell of L. stagnalis. Infrastructure includes an automated high throughput in situ detection system, real time qPCR machine, chemiluminescent detector and all the standard equipment for routine molecular techniques.

The applicant should have a degree within a field of molecular evolution or molecular biology, and be able to display relevant experience with molecular techniques (essential), and be familiar with various bioinformatic analyses (desirable).

All applications should include the following:

- a statement of research interests (or letter of motivation) - copies of any relevant publications - at least 1 letter of reference (preferably 2) and the corresponding contact details of these referees.

Applications must be submitted before September 30, 2011 and should be emailed to Daniel Jackson (djackso(at)uni-goettingen.de). Informal enquiries are also welcome.

Goettingen is a student friendly town, and is located in central Germany with easy access to the rest of Europe. The University has an excellent academic reputation and is one of the nine German Universities of Excellence.

The University of Goettingen actively seeks to foster opportunities for female scholars and therefore strongly encourages qualified women to apply. Candidates with disabilities who are equally qualified for the position will receive special consideration.

Junior Professor Daniel J. Jackson Courant Research Centre Geobiology Georg-August University of Göttingen Goldschmidtstr.3 37077 Göttingen Germany

Tel: +49 (0) 551 39 14177 Fax: +49 (0) 551 39 7918

djackso@uni-goettingen.de http://www.uni-goettingen.de/en/102705.html "Jackson, Daniel" <djackso@gwdg.de>

UHalle HostParasiteEvolution

PhD position in host-parasite evolution at the University Halle (Germany)

We are looking for a highly motivated PhD student to work on the population genetics and molecular ecology of bumble- and honeybees and their associated parasites. The doctoral student will contribute to the BMBF (German Ministry for Education and Science) funded network project LEGATO. Research will involve lab work and field work will take place in the Philippines and Vietnam. The ideal candidate should have experience with standard molecular and population genetic tools and must be willing and able to work in tropical regions. Experience with honeybees or other eusocial insects would be advantageous.

Work place is the Molecular Ecology Work Group (http://www.mol-ecol.uni-halle.de/) at the University of Halle-Wittenberg in Halle (Saale) Germany. The position is available for 2 years and 9 months, annual salary is according to standard German PhD scale TV-L E13 (50%) and we aim for the 01.12.211 as starting date.

Please send your application (giving D 186/2011 as reference) in a single pdf file including CV, statement of research interests (maximum 1 page) and contact details of two referees to petra.weber@zoologie.uni-halle.de by the 19^th September 2011.

Bernhard Kraus <kraus@zoologie.uni-halle.de>

UIdaho Coevolution

Graduate Position in Coevolutionary Biology

The Nuismer lab at the University of Idaho is recruiting a Ph.D. student with an interest in modeling coevolving species interactions. This position is available starting in fall 2012 and will provide support in the form of a research assistantship for three years as part of a project funded by the National Science Foundation (NSF). The general goal of this project is to better understand how the number of traits involved in interactions between species influences the coevolutionary process. Although it is expected that a portion of the student's dissertation will be directly related to the objectives of the funded project, much flexibility exists with regard to additional dissertation projects that may be pursued. Although some background in mathematics and/or computation is desirable, any prospective student with an enthusiasm for learning new mathematical approaches to studying evolutionary biology is encouraged to apply.

Interested students should visit the Nuismer laboratory homepage (http://www.webpages.uidaho.edu/~snuismer/Nuismer_Lab/) for more information about ongoing research projects in the lab, and the Depart-

ment of Biology and Graduate Program in Bioinformatics and Computational Biology at the University of Idaho.

If you are interested in this opportunity please send a CV and a statement outlining your motivation for pursuing graduate studies in coevolutionary biology.

Cheers,

Scott Nuismer

Scott Nuismer Associate Professor Department of Biological Sciences University of Idaho Moscow, Idaho 83844 Phone: 208 885 4096 http://-www.webpages.uidaho.edu/ ~ snuismer/Nuismer_Lab/ Scott Nuismer <snuismer@gmail.com>

UMainz 2 AntEvolution

Job announcement

The Faculty 10 Biology, Zoological Institute, Department Evolutionary Biology at the University of Mainz is searching for

Two doctoral Students (3 years - 50-65% TVL E13)

in the research area Behavioral Ecology and Evolutionary Biology ants

Application is possible until positions filled, for full consideration, apply by 30th Sept. 2011

We invite applications for the two positions for doctoral students, which are funded by the German Science Foundation (DFG). The projects analyze the evolution of resistance and virulence in structured populations of slavemaking ants and their hosts and natural selection on the behavior and composition ant societies, including the evolution of colony personalities. The scientific projects include the field studies, behavioral observations, genetic, chemical and immunological analyses. Information on our scientific work including recent publications can be found under http://www.bio.uni-mainz.de/zoo/evobio/. For further information, please contact foitzik@uni-mainz.de

The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng/) and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life (http://www.mainz.de/WGAPublisher/-online/html/default/hpkr-5nkek8.en.html).

Interested candidates should send an application (as a single e-mail attachment) containing a CV, PDF of their Master or Diplom Thesis, a list of publications a motivation letter and two letters of reference to:

Prof. Dr. Susanne Foitzik Evolutionary Biology

Institute of Zoology Johannes-v.- Müller-Weg 6

55099 Mainz

Germany

+49 6131 39 27 840 foitzik@uni-mainz.de

Starting date for the position is October 15st 2011, but is negotiable

Prof. Dr. Susanne Foitzik Evolutionsbiologie Insitut für Zoologie Johannes Gutenberg Universität Mainz Johannes von Müller Weg 6 55099 Mainz

Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

"Foitzik, Susanne" <foitzik@uni-mainz.de>

UMainz AntEvolution

PhD position in ant ecology

We invite applications for a PhD position in tropical ant ecology at the University of Mainz, Germany. The PhD candidate will study and compare the ecosystem functions of ant communities in the tropical rainforests of South America and Southeast Asia. He/she will use standardized experiments to assess the performance of different ant species in a set of ecosystem functions that are related to food consumption and the defense of food resources.

The overall aims of the project are to assess functional redundancy and niche differentiation of ant communities in tropical rainforests. The studies will take place in primary and disturbed rainforests in French Guiana and Malaysian Borneo, and the results will be compared between habitats, but also between French Guiana and Borneo to determine whether the functional niche differentiation in ant communities evolved convergently on the two continents.

The position requires a recent diploma or master degree in biology or a related field. The successful candidate should be highly motivated and have experience with field experiments and entomology. A driving licence is necessary; expertise in ant identification and statistics is advantageous. The project involves a four-month

stay each in French Guiana and Malaysian Borneo. The position (65% TV-L E13) is funded by the DFG and limited to three years.

Interested candidates should send applications as a single e-mail attachment (pdf) containing a curriculum vitae, a list of publications, a pdf of the Master or Diploma thesis, a letter of motivation and the addresses of two potential referees to Dr. Florian Menzel, menzelf@uni-mainz.de.

Closing date for applications is October 5th, 2011.

Starting date for the position is November 15th, 2011 or by arrangement.

For further information, please do not hesitate to contact me.

Dr. Florian Menzel Evolutionary Biology Institute of Zoology Johannes-v.-Müller-Weg 6 D-55128 Mainz phone: +49 6131 / 39 27 848

menzelf@uni-mainz.de

Florian Menzel <angiopteris@yahoo.com>

UMassachusetts Amherst MicrobialEukaryotes

GRADUATE STUDENT POSITION Genome Evolution/Phylogenomics of Microbial Eukaryotes Smith College - UMass Amherst

I am looking for highly motivated students to work on genome evolution and phylogenomics of microbial eukaryotes. Applicants should have skills/interest in molecular systematics, bioinformatics, microbiology and/or molecular evolution. Potential projects include: 1) bioinformatic and/or experimental analyses of eukaryotic phylogeny and 2) characterization of genome properties from microbial eukaryotes, with a focus on ciliates and amoeboid lineages.

Research in the my lab aims to elucidate principles of evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on four interrelated areas: (1) Characterizing evolutionary relationships among eukaryotes; (2) Reconstructing the ciliate tree of life through multigene analyses; (3) Exploring the evolution of ciliate and amoeba genomes; (4) Describing the phylogeography of coastal marine ciliates.

Graduate students in the lab join either through the MS program at Smith College or the Ph.D. program in Organismic and Evolutionary Biology (OEB) at the University of Massachusetts Amherst. Interested individuals should visit the web sites below and contact Dr. Laura Katz directly (lkatz@smith.edu)

Laura Katz, Smith College http://-www.science.smith.edu/departments/Biology/lkatz/-Research.htm OEB at UMass Amherst http://-www.bio.umass.edu/oeb/ Smith College MS in biology http://www.smith.edu/biology/graduate.php Laura A. Katz, Elsie Damon Simonds Professor Department of Biological Sciences lkatz@smith.edu 44 College Lane Smith College Northampton, MA 01063 Phone: 413-585-3825 (office) 413-585-3750 (lab) Fax: 413-585-3786 http://www.science.smith.edu/departments/Biology/-lkatz/ http://www.science.smith.edu/departments/-Biology/lkatz/

UMassachusetts Amherst NSG Ciliates

GRADUATE STUDENT POSITION Next-generation sequencing of marine ciliates Smith College - UMass Amherst

We are looking for a highly motivated student to join our project, which aims to elucidate patterns of diversity of ciliates in near-shore environments and to explore the ecological processes that underlie this diversity. The project is collaborative between Laura Katz's lab at Smith College and marine ecologist George McManus at the University of Connecticut. Work on the project combines next-generation sequencing, mesocosm analyses, and community footprints through DGGE.

Research in the my lab aims to elucidate principles of evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on four interrelated areas: (1) Characterizing evolutionary relationships among eukaryotes; (2) Reconstructing the ciliate tree of life through multigene analyses; (3) Exploring the evolution of ciliate and amoeba genomes; (4) Describing the phylogeography of coastal marine ciliates.

Graduate students in the lab join either through the MS program at Smith College or the Ph.D. program in Organismic and Evolutionary Biology (OEB) at the

University of Massachusetts Amherst. Interested individuals should visit the web sites below and contact Dr. Laura Katz directly (lkatz@smith.edu)

Laura Katz, Smith College http://-www.science.smith.edu/departments/Biology/lkatz/-Research.htm OEB at UMass Amherst http://-www.bio.umass.edu/oeb/ Smith College MS in biology http://www.smith.edu/biology/graduate.php Collaborator George McManus, University of Connecticut http://microzooplankton.uconn.edu/ Laura A. Katz, Elsie Damon Simonds Professor Department of Biological Sciences lkatz@smith.edu 44 College Lane Smith College Northampton, MA 01063 Phone: 413-585-3825 (office) 413-585-3750 (lab) Fax: 413-585-3786 http://www.science.smith.edu/departments/Biology/-lkatz/

UmeaU PlantEvolGenomics

PhD student position in Plant Evolutionary Genomics

A PhD student position is available with a continuing project to study natural hybridization and introgression between Populus trichocarpa and Populus fremontii in California and Nevada. Next-generation sequencing and genotyping approaches will be used to investigate the causes and consequences of gene flow between the two species. Collaborative opportunities exist with the Canadian Forest Service for comparative analyses with the P. balsamifera and P. deltoides hybrid system, as well as other established research groups that work on Populus here in Umeå.

Knowledge of population genetics, evolutionary analyses, molecular methods and bioinformatics is highly desirable. Experience with fieldwork is an asset, but not a requirement. The successful applicant should possess creativity, autonomy and a dedicated team spirit. Excellent proficiency in English is required, as English is the working language in the research group and at the department. The anticipated start date is January 2012, although alternative dates can be negotiated.

A complete version of this announcement is available at http://www8.umu.se/umu/aktuellt/arkiv/-lediga_tjanster/313-767-11.html#eng . Your application should include a short description of your research interests and why you are interested in the position, CV, certificates from higher education, copies of Bachelors/Masters thesis, and contact information for 3 references.

For more information, contact Stacey Lee Thompson, stacey.thompson@emg.umu.se.

Your complete application, marked with reference number 313-767-11, should be sent to jobb@umu.se (state the reference number as subject) or to the Registrar, Umeå University, SE-901 87 Umeå, Sweden to arrive September 30, 2011 at the latest.

stacey.thompson@emg.umu.se

UMunich VertebrateMarcoEvolution

Munich, Germany: PhD position in Vertebrate Palaeontology and Macroevolution, GeoBio-Center of the Ludwig-Maximilians-Universität (LMU)

We invite applications for a PhD position within the GeoBio-Center of the Ludwig-Maximilians-Universität (LMU), Munich. The successful student will join a new independent junior research group funded by the Emmy Noether Programme of the German Research Foundation (DFG). The research group will be led by Dr. Richard Butler, and will focus on the systematics and macroevolutionary patterns of the initial evolutionary radiation of archosauromorphs (archosaurs and closely related reptiles) in the early Mesozoic.

The PhD project will be funded for three years beginning December 2011, with extensive travel funding available for visits to palaeontological collections worldwide and attendance of international conferences and courses. The successful student will gain skills in quantitative analysis of macroevolutionary and biogeographical patterns, phylogenetics, comparative anatomy, taxonomy, and modern imaging and databasing techniques (e.g. CT scanning, Morphobank, Paleobiology Database). Further details of the topic of the PhD research are available on request from Richard Butler (r.butler@lrz.uni-muenchen.de).

Requirements: The ideal candidate will be highly motivated with an excellent academic record and will possess a strong background in palaeontology or zoology, with prior experience or knowledge of vertebrate anatomy and diversity as well as modern approaches to systematics and taxonomy highly desirable. Strong quantitative skills, experience with analysis of macroevolutionary analysis such as body size evolution or diversity patterns, and knowledge of specialist software (e.g. R, Mesquite, TNT) would be advantageous. Students should hold a Master's degree or equivalent by

the beginning of the PhD program. Excellent written and spoken English is required. German language skills are beneficial but not essential because the language of the workgroup will be English (however, funding will be available for the successful student to attend German language classes if required).

Application: Applications should include: (1) a detailed curriculum vitae; (2) a covering letter summarising their experience, motivation and goals in applying for the project; (3) supporting letters from two or three academic advisors/referees. Applications should be sent to Richard Butler (r.butler@lrz.uni-muenchen.de) and Frau Monica Brinkrolf (m.brinkrolf@lrz.uni-muenchen.de) by Friday 7th October 2011.

The LMU Munich is the leading research university in Germany, with a more than 500-year-long tradition, and builds upon its success in the Excellence Initiative, a Germany-wide competition promoting top-level university research. Palaeontology is an active area of research at LMU, strengthened by close links with the Bavarian State Collection for Palaeontology & Geology (see http://palmuc.de/). Munich has been repeatedly voted Germany's most liveable city.

Further details are available at http://tinyurl.com/-3murthb . Dr. Richard J. Butler

GeoBio-Center, Ludwig Maximilian University (LMU) Richard-Wagner-Str. 10 80333 Munich, Germany

butler.richard.j@gmail.com r.butler@lrz.uni-muenchen.de https://sites.google.com/-site/richardbutlerpalaeontologist/ butler.richard.j@googlemail.com

UMunster 7 Evolution

Westfälische Wilhelms-Universität Münster

* *

The University of Münster invites applications from outstanding candidates for PhD positions within its "Münster Graduate School of Evolution" (MGSE) Initiative.

The MGSE Initiative brings together researchers from the biosciences, the geosciences, medicine, bioinformatics, mathematics, philosophy, education research, as well as theology, in order to develop a unifying framework for interdisciplinary research and education in evolution.

7 PhD positions

(50% TV-L E13, 3 years)

for

Interdisciplinary Evolution Research

in Biology, Medicine, Mathematics, or Philosophy

within the "Münster Graduate School of Evolution" Initiative

We invite applications for PhD projects from all research areas of MGSE. In addition to their disciplinary focus, the proposed projects will have an interdisciplinary aspect. The PhD candidates will be members of a specific lab/group and will be co-supervised by one or two MGSE researchers from different disciplines.

Project supervisors will also be open for proposals of new project ideas. The positions are to be filled as soon as possible.

Applicants must hold a Diploma/Master degree or an equivalent in a discipline related to the project. Interested candidates should submit their Curriculum Vitae, diploma/master thesis abstract, and references. In addition candidates should also provide a designation of the favoured project, as well as a description of their expectations and motivations to apply for an interdisciplinary programme.

This should be sent as a single PDF file to andreas.wessel@uni-muenster.de <mailto:andreas.wessel@uni-muenster.de>, to arrive by *3^rd October 2011*.

The University of Münster is an Affirmative Action, Equal Opportunity employer committed to excellence through diversity.

For more information refer to the MGSE website (http://ieb.uni-muenster.de/mgsei/) or contact

Prof Joachim Kurtz

Institute for Evolution and Biodiversity, WWU Münster, Hüfferstraße 1, D-48149, Germany

joachim.kurtz@uni-muenster.de

Andreas Wessel <awess_02@uni-muenster.de>

UNeuchatel EvolutionTheory

1 phd position: Partner Control/ Game theory /Cooperation/Social Network

A 3 year phd position is available, for theoretical research in a joint project of the Institute of Biology at the University of Neuchâtel and the Department of Ecology and Evolution of the University of Lausanne, the latter providing the actual working location (http://-/www.unil.ch/dee). It is funded by a project of the Swiss National Science Foundation aiming at investigating the evolution of various partner control mechanisms in the context of cooperative interactions.

The project will be supervised by Redouan Bshary (an empirical biologist at Neuchâtel) and Laurent Lehmann (a theoretical biologist at Lausanne) and aims at studying a number of questions from a theoretical point of view. How should an individual respond to a non-cooperative partner? Should the partner be punished or should one switch partner? How does partner switching depend on the variation of the expressions of cooperation in the population? Does it depend on the within-group network of interactions? A key aspect of the modeling will be that assumptions regarding population structure and interaction patterns will be informed by natural model systems such as vervet monkeys and cleaner fish mutualism.

Applicants should have a master degree in a relevant area (e.g. behavioural ecology, evolutionary biology, economics with focus on game theory, physics, or mathematics), with strong mathematical and computing skills, and a vivid interest in fundamental research.

Inquiries and applications should be sent to laurent.lehmann@unil.ch or redouan.bshary@unine.ch. Applications should be sent by November 1st, and should include a CV, a one-page statement of research interests, and names of 2-3 referees. Only applications with all these information will be considered.

Laurent Lehmann <laurent.lehmann@unil.ch>

UOxford ResAssist AntibioticEvolution

Research Assistant in Experimental Evolution Department of Zoology, South Parks Rd, Oxford Grade 6: £25,854 - £30,870 p.a.

A 3-year research assistant position is available to work on an ERC-funded project to investigate the evolution of antibiotic resistance in Pseudomonas bacteria. After an initial 1-year period, it is possible that the postholder will be able to transfer into a 3-year D.Phil (Ph.D) programme while continuing to work as an RA on the project.

The primary responsibility of the postholder will be to assist in running: (i) competition experiments to measure the evolutionary costs and benefits of antibiotic resistance and (ii) long-term selection experiments that will track the evolutionary dynamics of antibiotic resistance over hundreds of bacterial generations. Subsequent work will involve targeted sequencing of genes involved in antibiotic resistance. The postholder will also participate in project management.

The postholder will have a bachelors degree in microbiology, biology or biochemistry and very strong organisation and management skills. Ideally, the postholder will have previous work experience in microbiology and in high-throughput assay techniques, although these are not requirements for the post.

This post will be based in a vibrant microbial evolution group within the Department of Zoology at the University of Oxford and the ideal candidate will relish the challenges and opportunities that come with working in a world-class research environment.

Informal enquiries with CV should be sent to Dr Craig MacLean craig.macleanATzoo.ox.ac.uk.

Further information, including application procedures, can be found at www.recruit.ox.ac.uk quoting vacancy 101066. Only applications received by noon on 17 October 2011 may be considered.

Dr. Craig MacLean Royal Society University Research Fellow University of Oxford, Department of Zoology South Parks Road, Oxford OX1 3PS, UK

Craig Maclean <craig.maclean@zoo.ox.ac.uk>

UppsalaU 2 MolEvolSystematics

At the Department of Organism Biology. Starting date: As agreed upon, preferably as soon as possible.

The overall aim of the project is to use comparative genomics to study the eukaryote/prokaryote transition. This will involve investigating the origin of eukaryote specific traits, particularly the origin of the nuclear envelope and the nuclear-encoded components of the mitochondrial proteome. The PhD projects will run in parallel and will initially focus on assembling and analyzing genome sequence data from microbial eukaryotes and bacteria. The work will be conducted entirely

in silico, consisting of bioinformatics, comparative genomics and phylogenetic analysis. The students will also be expected to undertake appropriate course work and training in bioinformatic theory and practice, including programming, statistics and phylogenetics.

The students will work as part of a team conducting genome sequencing of planctomycete bacteria and microbial eukaryotes. This is a collaborative project between research groups headed by Siv Andersson (molecular evolution) and Sandra Baldauf (systematic biology) of the Uppsala Center for Comparative Genomics www.uceg.ebc.uu.se, supported by a 10-year grant from the Swedish Research Council.

The candidates should have a Master of Science degree in Biology or similar qualifications and a strong academic record, preferably with some training either in bioinformatics, molecular sequence analysis, biochemistry or comparative genomics. The project will require independent and dedicated persons, proficient in both written and spoken English. They should be able to work well as part of a team but also independently. In filling this position the university aims to recruit persons who, in the combined evaluation of competence, skills and documented qualifications, are judged most suitable to carry out and develop the work-in-hand and to contribute to the positive development of the department.

Both PhD-student positions are primarily funded by a grant from the Swedish Research Council to the Uppsala Center for Comparative Genomics. The PhD-student positions are 4-year appointments, and the candidates will primarily devote their time to their own research studies. Other departmental work, such as teaching or administration can be part of the position (maximum 20%). Applicants must be eligible for PhD studies at Uppsala University. Information about UU research education can be found at the web site of the Faculty of Science and Technology, http://www.teknat.uu.se/cms/. Regulations for Swedish PhD-students can be found in Högskoleförordningen 5 kap.§§1-7 and in the regulations and guidelines of Uppsala University http://www.personalavd.uu.se/anstordning . The application should be written in English and should include a letter of intent, curriculum vitae, addresses and phone numbers of two reference persons and copies of the diploma and the master thesis. The letter of intent (no more than one page) should describe yourself, your scientific/educational background, and your interest in and competence for the position.

More information about the position can be obtained from professors Sandra Baldauf and Siv Andersson, e-post: sandra.baldauf@ebc.uu.se and siv.andersson@ebc.uu.se, phone 018-471-6452 and 018-471 43 79. Union representatives are Anders Grundström, Saco-rådet, Phone, 018-471 53 80 och Carin Söderhäll, TCO/ST, Phone, 018-471 19 96, Stefan Djurström, Seko, Phone, 018-471 33 15.

ding.he@ebc.uu.se

USouthFlorida PopulationBiology

Position announcement: Graduate assistantship in population biology University of South Florida (Tampa, FL), Department of Integrative Biology

A graduate assistantship in population ecology is available starting Fall semester, 2012, to work on our NSF-funded project on "Demographic heterogeneity in landscapes and communities." Applicants to both Ph.D. and M.S. programs will be considered, but preference will be given to the former. The position is fully funded for 2 years. Beyond that time, there are normally a substantial number of teaching assistantships available in our department for well-qualified students.

We seek a motivated student to work on data analysis and demographic models of population growth and its components, using data from the long-term study of Florida scrub-jays at Archbold Biological Station (ABS). The graduate student will play a central role in developing and maintaining a database for use in the research, and in the development, coding, and evaluation of models for the population dynamics of this species, as well as in statistical analyses of the data. The student will also interact with collaborating scientists at the University of California, Santa Barbara, and ABS. This is an unusual opportunity to dissect some major components of dynamics of a natural population.

Qualifications: Applicants must exceed the requirements for admission to our graduate program. Quantitative skills and a background in population biology are important.

Salary & benefits: A stipend of $22,000 per calendar year, medical insurance per the University's contract with the graduate student union, and full coverage of tuition (does not include fees).

About: USF is a large Research I university. Our department is growing and has a large active research program in ecology and evolution. Admission is competitive. Those in the Fox lab work on a range of problems in ecology and population biology. The student's own

research may involve the scrub-jay data and analyses, but need not do so; students in our lab choose their own research projects.

To apply: For initial application, send CV and GRE scores to Gordon Fox (gfox@usf.edu). Advance informal inquiries are strongly encouraged. You must also complete the application to our graduate program.

Deadline: Review of applications will begin February 1, 2012.

Dr. Gordon A. Fox Voice: (813)974-7352 Fax: (813)974-3263 Dept. of Integrative Biology ((for US mail:)SCA 110) ((for FedEx etc:)SCA112) Univ. of South Florida 4202 E. Fowler Ave. Tampa, FL 33620, USA http://foxlab.cas.usf.edu "Trying is the first step towards failure." – Homer Simpson

"Fox, Gordon" <gfox@usf.edu>

UTuebingen SexualSelection

PhD-position: Univ Tuebingen - Sexual selection

We are seeking a highly motivated PhD candidate with a genuine interest in reproductive and evolutionary biology to conduct and coordinate a 3-year German Science Foundation (DFG) funded project on sexually selected traits and their evolution. Candidates with a Diplom/Master degree in Biology or a related field should preferentially have experience in designing behavioural experiments and/or in molecular techniques (microsatellite/SNP genotyping). The annual salary according to German TV-L E13 (50%) allows a good living and approximates 15,000 after taxes depending on experience and marital status.

The project at the Animal Evolutionary Ecology group (http://www.evoeco.uni-tuebingen.de/) aims at quantifying how the social environment and within-individual trade-offs affect the sex-specific intensity and direction of sexual selection in a hermaphroditic model system, the freshwater snail Biomphalaria glabrata. A basic framework for integrating effects of self-fertilisation and variation in offspring quality into fitness quantifications has recently been developed (Anthes et al. 2010, Amer. Nat. 176:249-263) and seeks innovative further development within this project.

Tuebingen is a lively and picturesque city in a beautiful landscape, and its university ranks among the top 5 for Biology in Germany. Embedded in the Evolution and Ecology Forum Tübingen (www.eve.uni-tuebingen.de), our research group offers a stimulating and intense training environment with strong background in experimental evolutionary biology, molecular ecology, and behavioural studies.

Applicants preferentially submit a single pdf-file containing a short motivation letter, a CV including 2 reference addresses, and a brief summary of their thesis to nils.anthes@uni-tuebingen.de. Applications will be reviewed until the position has been filled. In case of equal quality, applicants with disabilities will be preferred. The University of Tuebingen aims at increasing the representation of women and therefore encourages female students to apply.

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Dr. Nils Anthes Animal Evolutionary Ecology Group University of Tuebingen Faculty of Science, Dep. of Biology Institute of Evolution and Ecology

Auf der Morgenstelle 28 D-72076 Tuebingen, Germany Phone: ++49-(0)7071-29 74617 Fax: ++49-(0)7071-29 5634

E-Mail: nils.anthes@uni-tuebingen.de http://-www.evoeco.uni-tuebingen.de/ Attend the 2011 Evolutionary Biology Congress in Tuebingen: www.eseb2011.org Nils.Anthes@uni-tuebingen.de

UUppsala Ageing Cognition SexualSelection

PhD position in the evolution of sex differences in ageing is available at the Department of Animal Ecology, Uppsala University, Sweden in Alexei Maklakov's lab. The position is funded by an ERC Starting Grant 2010.

This position is part of large research program with a primary objective to understand the evolution of sex differences in lifespan, and in reproductive and cognitive ageing. The current project will focus on the interactions between sex, learning, memory and ageing in the dioecious nematode worm /Caenorhabditis remanei/, a recently established model system in our lab. These animals offer fantastic opportunities for experimental work on sex-specific trade-offs. The project is in collaboration with Dr. Niclas Kolm from our department and will combine experimental evolution and behavioural ecology approaches. There is a possibility to develop and apply an RNAi knockdown technique in collaboration with Dr. Andrea Hinas from Biomedical

Centre at UU. The main direction of the project will be shaped by a student reflecting his/her interests.

Applicants should have a MSc (or equivalent) in biology/ecology and a strong interest in evolutionary biology. Special interest in the evolution of life-histories and/or sexual selection is a plus. The project is supervised by Alexei Maklakov and the candidate will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (EBC). The candidate will join an interprogram Ageing Research Group, which will open many opportunities for collaborative projects with other group members. The working atmosphere is international with English as working language.

EBC constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, with research programs including ecology, systematics, genetics, genomics, and developmental biology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes by train from Stockholm. Students gave Uppsala University the highest rating of all universities in Europe in biology in 2010.

This position is financed for four full years, and the successful candidate will receive a postgraduate fellowship the first year (15.500 SEK/month) and a postgraduate position year 2-4 (22.400 - 25.100 SEK/month).

Important points: The position is open until filled. To start as soon as possible, but the exact starting date can be negotiated.

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Applications should include: 1) short letter of interest / background (2 pages max); 2) complete CV; 3) a description of undergraduate training; 4) a copy of undergraduate degree and 5) the names and e-mail addresses of 2-3 referees. Applications should be sent by e-mail to Alexei.Maklakov(at)ebc.uu.se (replace (at) with @ to dodge spammers). Alternatively, send hardcopies to the following address: Alexei Maklakov, Animal Ecology, EBC, Norbyvägen 18D, Uppsala University, SE-752 36 Uppsala, Sweden. Please feel free to contact me via e-mail for more information.

*Links: *

*Maklakov Lab:*http://www.ebc.uu.se/Research/-IEG/zooeko/People/Alexei_Maklakov/ *Ageing Research Group:*http://www.ebc.uu.se/-Research/groups/ageing/projects/ *EBC:*http://-www.ebc.uu.se/index_eng.php Dr Alexei A. Maklakov Department of Animal Ecology Evolutionary Biology Centre Uppsala University Norbyvägen 18D Uppsala, SE-752 36 Sweden

Tel: +46 18 471 2702 Fax: +46 18 471 6484

Home page: http://www.ebc.uu.se/Research/IEG/-zooeko/People/Alexei_Maklakov/ Ageing Research Group page: http://www.ebc.uu.se/Research/groups/-ageing/ Alexei.Maklakov@ebc.uu.se

UValencia ViralEvolution

The Institute Cavanilles for Biodiversity and Evolutionary Biology (University of Valencia, Spain) offers a 4-year PhD fellowship under the supervision of Dr. Rafael Sanjuán to work on virus mutation and evolution. The project, funded by the European Research Council, aims at studying mutational processes in several RNA viruses including HIV-1 and hepatitis C virus. For more information on the research group, please visit www.uv.es/rsanjuan Candidates should contact Rafael Sanjuán by email (rafael.sanjuan@uv.es).

rafael.sanjuan@uv.es

UVienna TheoreticalPopGenetics

PhD Position in Theoretical Population Genetics at the University of Vienna

The mathematics and biosciences group (MaBS, homepage www.mabs.at) led by Joachim Hermisson at the University of Vienna is looking for a strong and highly motivated candidate for a PhD position in evolutionary modeling and statistical data analysis.

Project: Due to modern methods of high-throughput sequencing, huge amounts of DNA sequence data from population samples ("polymorphism data") are available today. Interpretation of these data is an important task for theoreticians. In the project, we will develop novel methods to detect so-called footprints of selection in DNA polymorphism data. These footprints can be used to describe the pattern of recent adaptations on a genome. We will particularly focus on effects of polygenic selection on genetic footprints. We will use mathematical methods based on stochastic processes (coalescent theory) and extensive computer simulations. The

project is part of an international DFG-research group "Natural Selection in Structured Populations" in collaboration with groups in Evolutionary Biology at the University of Munich, and Mathematics at the University of Freiburg. This work will be conducted in collaboration with Angela Hancock, a postdoctoral researcher in the MaBS group. Research environment: Vienna is not only one of the world's most liveable cities, but also offers an excellent research environment and is currently developing into one of the main centers in evolutionary research in Europe. The position will be located at the Max F. Perutz Laboratories, part of the Vienna Biocenter Campus, which houses a vibrant community of researchers from several institutes. As a member of the MaBS group, the student will also interact closely Magnus Nordborg and members of his group, and will be part of a larger community of evolutionary biologists and population geneticists through the activities of the Vienna Graduate School for Population Genetics (http://www.popgen-vienna.at) and EvolVienna (www.evolVienna.at).

Conditions: The position is for three years, salary is according to the FWF standard rates for PhD students in Austria. The starting date is flexible (November 2011 or later, starting date before summer 2012 preferred).

Application: We are looking for a candidate with a strong background in quantitative methods (analytical or computational modeling or data analysis) and interest in evolutionary research. Applicants should have a Master / Diploma degree in natural science (e.g. biology or physics), mathematics, or bioinformatics. Programming skills are highly appreciated. The working language in the group is English. German skills are not essential. The reviewing process will start in mid October 2011 and will continue until the position is filled. Applications should include a CV, letter of interest, and the names and email addresses of two potential referees. Informal inquiries and applications (preferably as a single pdf) should be sent to Joachim Hermisson (joachim.hermisson[AT]univie.ac.at).

– Joachim Hermisson Professor for Mathematics and Biosciences University of Vienna Department for Mathematics Nordbergstr. 15, 1090 Vienna, Austria and Max F.Perutz Laboratories Dr.-Bohrgasse 9, 1030 Vienna, Austria phone: +43 (0) 1 4277 50648 email: joachim.hermisson@univie.ac.at www.mabs.at joachim.hermisson@univie.ac.at

UZurich PlantEvolution

PhD position in plant ecology and evolution

A four year PhD position funded by the European Research Council (ERC) is available from January 2012 at the Institute of Systematic Botany, University of Zürich, to study the evolution of floral signals. A focus of the project will be the trade-off between attraction of pollinators and defense against herbivores. The behavioral impact of floral signals on pollinators and herbivores and/or the molecular bases of floral volatile production will be studied. In addition, evolutionary models will be constructed to predict the evolutionary responses of floral signals to different biotic environments. The project is embedded in the larger context of the ERC grant on floral signal evolution; thus, close collaboration with other PhD students working on this topic is expected. You should have a Master or equivalent academic degree, a keen interest in evolutionary biology, and a background in either molecular or organismal biology. Enthusiasm for experimental work with plants and insects is required. The successful candidate will work in a very well equipped institute and an exciting research environment. The Institute of Systematic Botany at the University of Zürich consists of 3 professors and 6 academic staff, as well as a large group of PostDocs, PhDs, and Master students. The institute is located in the pretty botanical gardens and houses modern molecular and chemical ecology labs, including greenhouses and climate chambers for plant cultivation. The University of Zürich has a very broad coverage of organismal and molecular biology, and several research groups work on evolutionary topics (www.lifescience-zurich.ch). The city also offers excellent quality of life through cultural programs and infrastructure, as well as an attractive surrounding (lake, alps).

If you are interested in the job, please send (preferentially by e-mail) a letter describing your motivation, C.V., copy of degrees, publications (or manuscripts, if available), and e-mail addresses of two academic referees, by 15th of October 2011. If you have further questions, don't hesitate to contact me.

Prof. Florian Schiestl Institute of Systematic Botany Zollikerstrasse 107 CH-8008 Zürich

florian.schiestl@systbot.uzh.ch

Florian Schiestl <florian.schiestl@systbot.uzh.ch>

Vienna PopulationGenetics

*PhD positions in Population Genetics *

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vienna Graduate School of Population Genetics has been founded to provide a training opportunity for PhD students to build on this excellent on site expertise.

We invite applications from highly motivated and outstanding students with a background in one of the following disciplines: bioinformatics, statistics, evolutionary genetics, functional genetics, theoretical and experimental population genetics. Students from related disciplines, such as physics or mathematics are also welcome to apply.

Available topics include: Probabilistic models for the population genetics of molecular evolution Inferring selection using *Drosophila* whole genome sequence data New algorithm and models to analyze population genetic massive parallel sequence data Experimental evolution in *Drosophila* Evolution of gene expression in *Drosophila* Evolution of transposable elements in *Drosophila* Natural variation in transposable element defense systems Tracing the genomic signature of hybridization between *D. mauritiana * and *D. simulans* Functionally important variation in lifespan and other life history traits in natural and experimental evolution populations Mathematical models of spatially varying selection in subdivided populations Statistical methods for detecting selective sweeps using genome-wide data Population genetic estimators from NGS data: assessing the power for methods for genome scans of selection The nature of differentiation between two closely related species of oak The footprint of adaptive gene introgression after secondary contact

Only full applications (CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by * 08.01.2012* will be considered. Two letters of recommendation need to be sent directly by the referees.

All information about the about the Vienna Graduate School of Population Genetics, the training program and the application procedure can be found at www.popgen-vienna.at – Dr. Julia Hosp Vienna Graduate School of Population Genetics Coordinator www.popgen-vienna.at c/o Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 A-1210 Vienna

Tel: +43 1 25077 4338 Fax: +43 1 25077 4390

julia.hosp@gmail.com

Jobs

Alberta ConservationExecDirector

CPAWS Northern Alberta Executive Director The Canadian Parks and Wilderness Society, Northern Alberta chapter (CPAWS NAB) is seeking a dynamic, creative, results-oriented Executive Director to build on its growth and success.

CPAWS NAB is a leading conservation group, and the pre-eminent voice for protecting wilderness and biodiversity in the northern two-thirds of Alberta. The Executive Director will work collaboratively with the Board of Directors, staff, key volunteers, the CPAWS National organization and chapters, and other key stakeholders to achieve our conservation goals.

In addition to overseeing the day-to-day business of the Chapter, the Executive Director will further develop and lead the implementation of the Chapter's fund development, strategic conservation and business plans. He/she will energetically present the CPAWS message to donors, foundations, government officials, corporations, and conservation peers.

The Executive Director will be accountable for: 1. Providing vision and strategic leadership to achieve the organization's conservation goals. 2. Ensuring CPAWS NAB is an influential voice on conservation and parks in Northern Alberta. 3. Representing the organization to the public, government, and other stakeholders through campaigns, media relations, and community engagement. 4. Ensuring CPAWS NAB has solid and sustainable funding. 5. Expanding the financial and organizational capacity of CPAWS NAB. 6. Building a strong member and volunteer base.

The successful candidate will have: * A Bachelor's degree with a focus on conservation sciences, or an equivalent combination of education and work experience in the sector. * A demonstrated passion for wilderness and conservation. * Leadership experience, including experience working with and leading teams. * Knowledge and experience working with environmental issues, in particular those regarding conservation and parks. * Successful fund development experience. * Demonstrated experience in strategic planning and organizational development. * An understanding of the public policy and political process in Alberta and Canada. * Proven experience developing and managing project and organizational budgets. * Successful history of working with stakeholders and partner organizations. * Excellent verbal and written communications skills * Experience with public campaigns and media relations. * Computer proficiency and database management skills.

Experience working with Aboriginal stakeholders and an understanding of Aboriginal culture are considered assets.

This is a full-time position based out of Edmonton, with occasional travel provincially and nationally to represent the chapter.

Salary/Benefits: $60,000-$80,000 plus benefits, depending on qualifications.

Desired Start Date: November 1, 2011

For more information on CPAWS Northern Alberta please check our website at www.cpawsnab.org

Please submit your resume with a covering letter via email to:

Amber Nicol Chair, CPAWS Northern Alberta Board of Directors infonab@cpaws.org

Closing date is September 14, 2011 at 6pm MST; however, the position will remain open until filled. Interviews are expected to occur in the last two weeks of September.

CPAWS Northern Alberta thanks all applicants for their interest; only those invited for an interview will be contacted.

Alex Abboud <aabboud@homewardtrust.ca>

AmherstC MicrobiologyEvolution

"Amherst College is looking to hire a Tenure-Track Assistant Professor in Immunology and Microbiology, which is being broadly defined and we encourage evolutionary biologists working in these areas to apply."

AMHERST COLLEGE

ASSISTANT PROFESSOR OF BIOLOGY

Immunology and Microbiology

The Department of Biology at Amherst College seeks to fill a tenure-track position at the Assistant Professor level in immunology and microbiology, to begin July 2012. The research program of the successful candidate will be one that involves undergraduate biology majors. Teaching duties include lecture and laboratory courses in immunology and microbiology, as well as occasional participation in team-taught introductory and non-majors courses. A completed Ph.D. is required and post-doctoral experience is expected.

Candidates should submit electronically to https://-jobs.amherst.edu/view/opportunity/id/362 a curriculum vitae and statements of research and teaching interests. Three letters of recommendation addressed to the Biology Search Committee should be submitted to Tracie Rubeck, Academic Department Coordinator, email: trubeck@amherst.edu. Review of applications will begin October 3, 2011, and will continue until the position has been filled.

Amherst College is a private undergraduate liberal arts college for men and women, with 1,700 students and a teaching faculty of 200. Located in the Connecticut River Valley of western Massachusetts, Amherst participates with Hampshire, Mount Holyoke and Smith Colleges and the University of Massachusetts in the Five College Consortium.

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.

Tracie Rubeck, Ph.D. Academic Department Coordinator Amherst College Biology Department McGuire Life Sciences Building Amherst, MA 01002 413-542-2097 trubeck@amherst.edu

Tracie Rubeck <trubeck@amherst.edu>

ArizonaState InsectCollectionManager

Arizona State University is looking to hire an Insect Collection Manager.

https://www.asu.edu/go/employment/?auth=-guest&jobid=27177&SiteId=1&PostingSeq=1

Specific questions about this position may be addressed to:

Nico M. Franz, Ph.D. Associate Professor & Curator of Insects School of Life Sciences PO Box 874501 Arizona State University Tempe, AZ 85287-4501

Phone: (480) 965-7534 Fax: (480) 965-6899 E-mail: nico.franz@asu.edu Website: http://-franz.lab.asu.edu/ nico.franz@asu.edu

BucknellU Chair PlantEvolGenetics

Colleagues, if you have questions about this exceptional opportunity for a plant evolutionary or ecological ge-

neticist, please let me know.

sj The Biology Department at Bucknell University invites applications for the David Burpee Endowed Chair in Plant Genetics to begin August 2012.

Bucknell University in Lewisburg, Pennsylvania, USA, is a premier liberal arts university with a long-standing teacher-scholar tradition. The successful candidate must have a strong commitment to curricular development for both majors and non-majors. As part of the five course teaching load, the successful candidate will be expected to teach an introductory course for majors or a non-majors course that contributes to the university's general education requirements. Additionally, the successful candidate will teach an upper-level course in her/his area of specialty within plant biology that complements our current course offerings. It is also expected that the successful candidate will establish a research program that involves talented undergraduates and has the potential to attract extramural funding. We are especially interested in candidates working in the fields of ecology and evolution.

The department has outstanding resources for botanical research and teaching including three greenhouses, an extensive living plant collection, a mixed-habitat natural area, an herbarium, an arboretum, environmental chambers as well as a staffed imaging facility including confocal and scanning electron microscopes.

The successful candidate will have access to discretionary funds that may be used for research equipment, supplies, travel, and personnel.

The position is offered at open rank. Applicants must have a Ph.D., an established independent research program and extensive teaching experience with evidence of teaching effectiveness. Candidates with appropriate experience may be considered for hire with continuous tenure, pending approval of departmental and university committees. Finalists for this position who wish to be considered for tenure upon appointment will be asked to submit a complete tenure dossier.

Applications should include a curriculum vita, a detailed description of research plans, a teaching statement and names and e-mail addresses of three professional references. To apply, please visit: http://-www.bucknell.edu/jobs . Review of applications will begin on October 15. The search will remain open until the position is filled. Questions about this position should be directed to Mark Spiro (spiro@bucknell.edu).

Bucknell University values a diverse college community and is committed to excellence through diversity in its faculty, staff, and students. An Equal Opportunity/Affirmative Action Employer, Bucknell University especially welcomes applications from underrepresented groups.

Steve Jordan, Associate Professor Department of Biology Bucknell University Lewisburg, PA 17837 Office: 302 Bio. Bldg. +1 570-577-1254 Lab: 331 Bio. Bldg. +1 570-577-3816 Fax: +1 570-577-3537 http://www.facstaff.bucknell.edu/sdjordan/-jordan.html steve.jordan@bucknell.edu

Claremont EvolutionMorphology

TENURE-TRACK POSITION IN FUNCTIONAL MORPHOLOGY OR BIOMECHANICS

The Keck Science Department invites applications for a tenure-track appointment in Biology with an emphasis in animal (either vertebrate or invertebrate) functional morphology or biomechanics at the Assistant Professor level to begin July 2012. The department, which houses the biology, chemistry, and physics faculty for Claremont McKenna, Pitzer, and Scripps Colleges (three of the five undergraduate Claremont Colleges), offers innovative and interdisciplinary programs in the natural sciences and prides itself on small class sizes. Many faculty members participate in collaborative research projects, both within the department and with research groups at nearby colleges and universities. We seek an organismal biologist committed to excellence in teaching and to working within a cross disciplinary and integrative department, and who will develop a vibrant research program that fully engages undergraduate students. We are especially interested in applicants whose work explores form and function in an ecological or evolutionary context and incorporates quantitative and/or computational techniques, including phylogenetic approaches. The position will involve teaching a vertebrate anatomy course with lab, participation in the introductory biology sequence, and the opportunity to develop advanced undergraduate and non-majors courses in the candidate's field. A Ph.D. degree, post-doctoral experience, and a record of scholarly publication are required.

Please apply online at https://webapps.cmc.edu/-kecksci/faculty/ by uploading a cover letter, a curriculum vitae, a description of your proposed research, a statement of your proposed approach to teaching science in a liberal arts setting, and the names and e-mail addresses of three references. Any inquiries may be addressed to Professor John Mil-

ton at jmilton@kecksci.claremont.edu. Additional information about the department may be found at www.kecksci.claremont.edu. Review of applications will begin October 17th, 2011, and the position will remain open until filled.

Sarah Gilman sgilman@jsd.claremont.edu

Colombia CIAT Bioinformatics

The International Center for Tropical Agriculture - CIAT, is seeking applications for a Researcher in Bioinformatics. The position offers an outstanding career opportunity for a researcher interested in genomics in the context of international agriculture. The researcher will be part of a multidisciplinary team working on genetic improvement of beans, cassava, forage grass species and rice. The position will be based in CIAT Headquarters (Palmira, Colombia).

Here's the jobs page:

http://www.ciat.cgiar.org/AboutUs/Paginas/-jobs.aspx "Grenier, Cecile (CIAT)" <C.Grenier@CGIAR.ORG>

CWilliamMary London EvolBiol

Assistant Professor, Evolutionary Biology

The Department of Biology at the College of William and Mary seeks applications for a tenure track position at the Assistant Professor level in EVOLUTIONARY BIOLOGY. We are particularly interested in candidates who have the ability to apply evolutionary knowledge across disciplines and employ integrative approaches that address questions at multiple levels of biological organization. The candidate is expected to establish and maintain an externally funded research program that inspires a highly motivated undergraduate student body as well as Masters students. Teaching expectation is 1-2 courses per semester, counting labs. Candidates must possess the skills to teach compelling courses in Evolutionary Genetics and other lecture and seminar-style evolution courses, and to contribute to the introductory biology sequence. Postdoctoral research experience is required, and previous experience in teaching and mentoring successful undergraduate research is preferred.

Collaborative research opportunities exist with faculty from a number of departments, schools and programs at the College of William and Mary. In addition to the Biology Department, these include: - Program in Neuroscience - The Biomath Program - Department of Applied Science - Environmental Science and Policy Program - Virginia Institute of Marine Science

Campus facilities and equipment include an Integrated Science Center (opened in 2008), a well equipped molecular biology core facility, an environmental field laboratory, an herbarium, an extensive animal care facility that includes indoor and outdoor housing for birds, and several other support services.

Teaching expectations are generally one course each semester that may include a lab taught by the primary instructor. More specifically, the successful candidate will develop and teach a mid-level course in evolutionary genetics suitable for Biology majors and additional courses that might include a sophomore level Evolution of Organisms course and advanced courses, lecture or seminar style, that incorporate student writing and research projects. Prior experience teaching undergraduate courses will be viewed favorably. The department and College strongly value excellence in teaching and there are many on-campus initiatives to aid faculty in developing their teaching abilities and skills. We also encourage close mentorship of students in meaningful research experiences. Our ideal candidate will be a person who has imaginative and effective plans to integrate the education of undergraduates into their research program. As a result of the department's commitment to student research and mentorship, faculty members have garnered considerable support from NSF, NIH, and other granting agencies. Many of our students co-author manuscripts with faculty before graduation.

Review begins November 1, 2011 and will continue until an appointment is made. Submit online a letter of application, curriculum vitae, statements of research plans and teaching philosophy, and a list of courses taken/taught relevant to the position as a single PDF document at www.jobs.wm.edu. Also submit separately online the names and email addresses of three references who will be contacted by us with instructions for how to submit a letter of reference. Information on the undergraduate and Masters degree programs in the Department of Biology and this position may be obtained at http://www.wm.edu/biology .The College is an EEO/AA employer and actively encourages applications from minorities, women, disabled persons and veterans.

Questions? Contact Daniel Cristol, Chair of the Search Committee (757-221-2405). A full list of contact information of other biology faculty is available on this website.

jpswad@wm.edu

DukeU EvolutionaryMorphology

Animal Integrative Biology Position at Duke University

Duke University's Department of Biology, located in Durham NC, seeks applications for a tenure-track, assistant professor, faculty position in Animal Integrative Biology at the organismal level, for a position beginning in the fall of 2012. We are particularly interested in applicants working in areas such as comparative physiology, evolutionary morphology, biomechanics or organismal level biophysics. We seek individuals whose work is truly integrative, spanning multiple scales of organization and subdisciplines. The Department of Biology is a broad department with strengths in evolution, ecology, behavior, development and cell and molecular biology. Successful candidates must have a Ph.D. and will be expected to establish an extramurally funded research program, train graduate students, and actively participate in undergraduate education. In particular the candidate will be expected to contribute to a large undergraduate course in animal physiology and develop additional courses in his or her own areas of expertise.

Applicants should submit a curriculum vitae, a brief summary of current and proposed research, reprints of 2 or 3 key publications and a statement of teaching interests via the web at www.academicjobsonline.org. Candidates should also arrange for three letters of recommendation to be uploaded to this website. Questions regarding the position may be addressed to Professor Kathleen Smith, chair of the search committee at kksmith@duke.edu.

Complete applications received by November 15th will be guaranteed consideration. Duke University is an Equal Employment Opportunity/Affirmative Action employer.

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

EmoryU SoftwareProg GalaxyProject

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

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

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

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

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

Note that these are full time positions located in At-

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

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

GeorgeWashingtonU EvolutionaryGenetics

Faculty Position in Genetics Department of Biological Sciences The George Washington University Washington, DC

The Department of Biological Sciences at the George Washington University is accepting applications for a tenure-track faculty position at the rank of Assistant Professor with expertise in the field of Genetics. We are searching for candidates who use genetic or genomic experimental methods to address fundamental questions about gene expression or developmental biology or who are able to integrate gene function and regulation of complex traits from the genome to the phenotype level. Research activities should be conducted within the context of comparative and/or evolutionary biology and complement the research focus of the department.

The successful candidate is expected to establish and maintain a vigorous research program capable of attracting external funding that involves graduate and undergraduate students. Teaching responsibilities will consist of an undergraduate introductory course in genetics that includes a lab.

Basic Qualifications: a Ph.D. in an appropriate discipline, postdoctoral experience, ability to teach basic genetics, and accomplishment in biological research in genetics as demonstrated by publications in peer-reviewed journals.

Application Procedure: please send a letter of application, a complete curriculum vitae, brief descriptions of teaching and research plans, three publications, and the names and contact information for three references to GWgeneticssearch@gmail.com. Only complete applications will be considered. Review of applications will begin on November 11 and will continue until the position is filled.

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

[This ad also will appear in Science]

gwgeneticssearch@gmail.com

GettysburgCollege EvoDevo

Evolutionary Developmental Biologist Gettysburg College invites applications for a tenure-track position at the rank of assistant professor in the Biology Department to begin Fall 2012. Ph.D. in the Biological Sciences, commitment to teaching and academic advising in the liberal arts tradition, and research that involves undergraduates are essential; post-doctoral experience preferred. The successful candidate will teach upper division courses in area of specialization with an evolutionary development perspective - at least one of these courses must be an organismal course, e.g., parasitology, entomology, flowering plants -and will share teaching duties in our core biology sequence. Applications from candidates who can make use of our electron microscopy facilities are encouraged.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Washington/Baltimore metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of over 2,600 students. 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, age, and disability.

Send electronic application - curriculum vitae and statement of teaching and research goals - and have three letters of reference (of which at least one can speak to the candidate's teaching effectiveness) sent to: Dr. Véronique A. Delesalle, delesall@Gettysburg.edu, subject Evo-Devo Search. For full consideration application and letters must be received by October 1st, 2011.

Véronique A. Delesalle Professor of Biology Chair of the Biology Department

Tel. 717-337-6153

delesall@gettysburg.edu

HarvardU HumanEvolutionaryGenet

Tenure-Track Faculty in Human Evolutionary Genetics and Genomics Position

Details

Title Tenure-Track Faculty in Human Evolutionary Genetics and Genomics School Faculty of Arts and Sciences Department/Area Human Evolutionary Biology/Human Evolutionary Genetics and Genomics Position Description The Department of Human Evolutionary Biology at Harvard University is seeking to make a full-time tenure-track appointment in the field of human evolutionary genetics and genomics. We seek candidates who will complement the current strengths of the Human Evolutionary Biology program. The candidates research need not focus solely on humans but can have a broader phylogenetic perspective including model organisms. Candidates with either theoretical/analytical or lab-based research approaches are encouraged to apply.

Basic Qualifications A strong doctoral record is required and postdoctoral experience preferred. The Department seeks candidates with exceptional promise as scholars and teachers to offer courses at the undergraduate and graduate levels. The Department administers a large and successful undergraduate concentration in Human Evolutionary Biology, hence excellence in undergraduate teaching is a priority. Our doctoral program stresses integration of laboratory and field research and the cooperative training and mentoring of Ph.D. candidates.

Additional Qualifications Special Instructions Interested candidates should provide a CV, a research statement, a statement of teaching philosophy, a list of publications, and the names, addresses, and e-mail addresses of three people who will provide letters of recommendation. All applications and supporting materials, including letters, must be submitted by October 15, 2011 to the attention of Prof. Maryellen Ruvolo, Search Committee Chair, Department of Human Evolutionary Biology via http://academicpositions.harvard.edu/postings/3715 . "Lieberman, Daniel" <danlieb (at) fas.harvard.edu>

HongKong MycorrhizaSystematists

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

Kadoorie Farm & Botanic Garden Corporation

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

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

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

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

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

Gunter Fischer <gfischer@kfbg.org>

HongKong OrchidTaxonomy

Kadoorie Farm & Botanic Garden Corporation

Notice of Vacant Post: BOTANIST (Orchid Taxonomy & Ecology)

JOB SUMMARY Applications are invited for a permanent Botanist post at Kadoorie Farm and Botanic Garden in Hong Kong. The remit of the post is to provide expertise in orchid taxonomy for the identification of species in the wild and description of taxa based on herbarium material and other sources. This role is central to the work of the Orchid Conservation Section at KFBG in identifying areas of high conservation value in South China and neighbouring regions, and in targeting threatened taxa for rescue strategies. The successful candidate will help design and undertake surveys to collect field data, herbarium specimens and other biological samples (including silica-dried material for DNA extraction). Effective communication with local partners is essential for this role, and therefore excellent spoken and written Putonghua and English are a must (any additional languages would be a plus). Applicants should have a PhD in orchid taxonomy, as well as a solid understanding of how this relates to improved understanding of vegetation dynamics and ecology for applied conservation. Experience of molecular techniques (DNA extraction, PCR, cloning, sequencing, etc.) would be a distinct advantage. The ability to integrate biological findings into recommendations for conservation is crucial.

Applicants should have a PhD in plant taxonomy or ecology. Strong communication skills (written and oral) and knowledge of the Asian orchid flora are required. Additional knowledge in herbarium management software, soil science, mycorrhiza, GIS and computer programming are a plus.

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

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

Gunter Fischer <gfischer@kfbg.org>

ImperialCollege London Chair EvolEnvChange

Please note the advertised chair and lectureship in environmental biology. We welcome applications from evolutionary biologists looking at applied environmental challenges

Chair in Environmental Change Biology Imperial College London - Division of Biology, Department of Life Sciences, Faculty of Natural Sciences

Ref NS 2011 116 JT Minimum starting salary £66,830 per annum Silwood Park Campus

This post forms part of the College Initiative in Environmental Change that also includes a second Chair and two Lectureships across the Departments of Physics and Life Sciences and involving the Grantham Institute for Climate Change. The Chair in Environmental Change Biology, based in the Department of Life Sciences will lead College activities on the interactions between biological processes and environmental change, and establish a new programme of activities focused on solving environmental challenges. The appointee will also participate in the development of a coherent College post-graduate programme in the environment and environmental change.

You will have an international reputation for research and innovation in the link between biological processes and environmental change, underpinned by a record of first-class journal publication. You will also have an established track record in attracting research funding and proven leadership and management of research teams. You will be expected to have extensive experience in postgraduate training and undergraduate teaching. You will hold a good honours degree and a doctorate (or equivalent) in a relevant subject area.

Informal enquiries are welcomed and should be directed to Professor A Burt, Head of Ecology and Evolution, (Tel. +44 (0)20 7594 2266; Email a.burt@imperial.ac.uk).

Closing date: 19 September 2011 or until the post is filled

How to apply: Our preferred method of application is online via http://www3.imperial.ac.uk/employment by entering the Job Reference Number NS 2011 116 JT as the "keyword" on the Job Search pages. There you will

also find a full Job Description including details of all the posts in the Environmental Change Initiative.

Should you have any queries please contact: Maria Monteiro, Senior Appointments Coordinator - email:m.monteiro@imperial.ac.uk Tel: +44 (0)20 759 45498

Committed to equality and valuing diversity. We are also an Athena Silver SWAN Award winner and a Stonewall Diversity Champion.

Lecturer in Environmental Biology Imperial College London - Division of Biology, Department of Life Sciences, Faculty of Natural Sciences

Ref NS 2011 118 JT Salary £42,500 - £47,450 per annum Silwood Park Campus

This post forms part of the College Initiative in Environmental Change that also includes two Chairs and a second Lectureship across the Departments of Physics and Life Sciences and involving the Grantham Institute for Climate Change. The Lecturer in Environmental Biology in the Department of Life Sciences will complement biological and ecological research in the Department and have opportunities for multi-disciplinary research across the College. The appointee will also participate in the development of a coherent College post-graduate programme in the environment and environmental change.

You will have a growing international reputation for research and innovation in Environmental Biology, underpinned by a record of first-class journal publication. You will also have the potential to attract research funding and the ability to lead and manage research teams. Previous experience in postgraduate training and undergraduate teaching is essential. You will hold a good honours degree and a doctorate (or equivalent) in a relevant subject area.

Informal enquiries are welcomed and should be directed to Professor A Burt, Head of Ecology and Evolution, (Tel. +44 (0)20 7594 2266 Email a.burt@imperial.ac.uk).

Closing date: 19 September 2011 or until the post is filled

How to apply: Our preferred method of application is online via http://www3.imperial.ac.uk/employment by entering the Job Reference Number NS 2011 118 JT as the "keyword" on the Job Search pages. There you will also find a full Job Description including details of all the posts in the Environmental Change Initiative.

Should you have any queries please contact: Diana Anderson, Campus Administrator - email:d.anderson@imperial.ac.uk; Tel: +44 (0)20 7594 2207

Committed to equality and valuing diversity. We are also an Athena Silver SWAN Award winner and a Stonewall Diversity Champion.

Prof. Timothy G. Barraclough, Professor of Evolutionary Biology

Division of Biology, Imperial College London, Silwood Park Campus, Ascot, Berkshire, SL5 7PY, UK E-mail: t.barraclough@imperial.ac.uk Telephone: +44 (0)207 594 2247 Fax: +44 (0)207 594 2339

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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

IndianaU Bloomington EvolBiol

Evolution, Ecology, and Behavior Department of Biology Indiana University, Bloomington The Department of Biology, Program in Evolution, Ecology, and Behavior (EEB) invites applications for an ASSISTANT PROFESSOR. We seek candidates with a conceptually driven research program in the integration of Evolution, Ecology, or Behavior with (1) Development, (2) Microbial Biology (including Eukaryotes), and/or (3) Genomics. For information about the Department of Biology and for links to the campus and the Bloomington community, see website: http://www.bio.indiana.edu .

Applicants should send a single PDF file that contains a cover letter, CV, and research and teaching statements by E-mail to iueeb@indiana.edu and/or mail materials to the EEB Search Committee c/ o Jim Bever, Department of Biology, Indiana University Bloomington, Jordan Hall, Room 142, 1001 East Third Street, Bloomington, IN 47405. Applicants should also arrange to have three (or more) letters of recommendation sent to the same address. Review of applications will begin October 15, 2011, and will continue until suitable candidates are identified.

Indiana University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

Lynda Delph <ldelph@indiana.edu>

KansasU EvolutionaryGenomics

FACULTY POSITION IN ECOLOGICAL OR EVOLUTIONARY GENOMICS

The Department of Ecology and Evolutionary Biology at the University of Kansas seeks applicants for an Assistant Professor (Tenure track) position focusing on ecological or evolutionary genomics to begin as early as August 18, 2012. We seek a highly creative individual that employs genomic approaches to answer key questions in ecology or evolutionary biology. Those performing interdisciplinary research at the interface of different fields of Biology are strongly encouraged to apply. Responsibilities include teaching two courses per academic year; directing a productive research program, as evidenced by scholarly publications, communication of current research at appropriate professional meetings, and acquiring of external funding; and service to the department, College, University, and to the profession.

Evaluation of the requirements above will be made by review of the applicant's: (1) record of research and teaching experience; (2) graduate and post-doctoral work; (3) record of research accomplishments, publications, productivity, and extramural funding; (4) statements of teaching philosophy and research experience; (5) professional references; and (6) research focus/expertise in ecological or evolutionary genomics.

Applicants should submit the following materials online: (1) curriculum vitae; (2) statements of (a) research interests and future directions and (b) teaching philosophy, experience, and interests, (3) PDF copies of three selected publications/manuscripts and (4) a list of professional references. In addition, three letters of recommendation should be submitted as PDF attachments to: jdorothy@ku.edu (Dorothy Johanning). Review of applications will begin October 27, 2011, and will continue until no longer needed. The complete Position overview statement, Position responsibilities, and Required qualifications can be accessed at https://-/jobs.ku.edu, Position number 00004339.

"Kelly, John K" <jkk@ku.edu>

LeidenU EvolutionaryBiology

Leiden University | Faculty of Science The Leiden Institute of Biology Leiden (IBL) has openings for

3 tenure track positions in Evolutionary Biosciences Vacancy number: 11-211

The Institute has a long tradition of excellence in fundamental research in a broad range of biological subjects. The IBL contributes to the Faculty priority area 'Bioscience: the Science Base of Health'. To strengthen its profile in this area, the Institute invites applicants that can contribute to the Institute's theme: 'Healthy Lives in a Changing Environment'.

We invite applicants for a tenure track position at the Assistant Professor level. They are expected to develop an appealing research program that is supported by external funding and that fits with the Institute's aim to combine fundamental research with applied studies. We encourage applications from individuals with a broader range of interests, but will give priority to candidates with an evolutionary or comparative perspective and working in one of the following areas: (1) molecular developmental animal biology; (2) molecular or cognitive neuroscience in relation to animal behavior; (3) evolutionary genetics. Special consideration will be given to candidates with expertise that links to current research interests and model organisms within the IBL (zebra fish, birds, plants). Successful candidates are expected to contribute to the IBL's teaching program at BSc and MSc levels, in particular in the areas of animal biology, animal physiology and evolutionary biology, and to management and organization of the Institute. We aim to fill at least one of our current tenure track openings with a female candidate.

Your profile: You have a PhD degree and several years of experience at the postdoctoral level during which you have developed an independent and productive line of research. You are successful in obtaining research funds and eager to join in collaborations and to contribute to shaping the future directions of research at the IBL. Closing date: October 25.

For a full vacancy text and job requirements please visit: www.vacatures.leidenuniv.nl Carel ten Cate

Professor of Animal behaviour

http://www.science.leidenuniv.nl/index.php/ibl/-

ten_cate Institute Biology Leiden (IBL) Faculty of Science, Leiden University Sylvius Laboratory, Sylviusweg 72, 2333BE Office # 7.4.19b, Phone # 31 71 527 5040 P.O.Box 9505, 2300RA, Leiden, the Netherlands Masters of Molecules ˜ Experts on Evolution

"C.J. ten Cate" <c.j.ten.cate@biology.leidenuniv.nl>

London Publishing Bioinformatics

BioMed Central is seeking an Executive Editor with post-graduate expertise in bioinformatics (or a closely related field) and editorial experience to manage and direct our leading Open Access journals in this area. The position involves developing the content, driving the growth of the journals, overseeing the peer review process, and optimizing editorial standards and policies in BMC Bioinformatics, BMC Genomics and BMC Systems Biology. For further details of the role please follow this link: (https://springer-career-uk.becruiter.net/jobagent/_BMC/profitcenter/job _details.aspx?jobidc454).

A second position is available within the publishing team, for a Journal Development Editor with a degree in bioinformatics, genomics or a related field. The latter role is less content-focused and requires a strong communicator with an interest in developing business skills within scientific publishing (https://springer-career-uk.becruiter.net/jobagent/-_BMC/profitcenter/job _details.aspx?jobidc413).

Helen.Whitaker@biomedcentral.com

London Publishing Bioinformatics 2

Apologies that the links in the previous message returned an error:

BioMed Central is seeking an Executive Editor with post-graduate expertise in bioinformatics (or a closely related field) and editorial experience to manage and direct our leading Open Access journals in this area. The position involves developing the content, driving the growth of the journals, overseeing the peer review process, and optimizing editorial standards and policies in BMC Bioinformatics, BMC Genomics and BMC Systems Biology. For further details of the role please follow this link: (https://springer-career-uk.becruiter.net/jobagent/_BMC/profitcenter/job _details.aspx?jobidc454).

A second position is available within the publishing team, for a Journal Development Editor with a degree in bioinformatics, genomics or a related field. The latter role is less content-focused and requires a strong communicator with an interest in developing business skills within scientific publishing (https://springer-career-uk.becruiter.net/jobagent/-_BMC/profitcenter/job _details.aspx?jobidc413).

Full details of the vacancies can be found at the BioMed Central jobs page: http://www.biomedcentral.com/-info/about/bmcjobs (Executive Editor and Journal Development Editor (Ref:BMC/JDE).

Helen Whitaker <Helen.Whitaker@biomedcentral.com>
Helen Whitaker <Helen.Whitaker@biomedcentral.com>

MichiganStateU PlantEvolPopGenomics

Plant genomic/molecular biologist

The Department of Plant Biology at Michigan State University invites applications for a tenure-track position at the Assistant/Associate Professor level. MSU is world renown in the plant sciences and we are seeking a plant biologist in molecular, cellular and/or genomic areas that complement on-going research in the department. Areas of interest include, but are not limited to, developmental, quantitative or population genetics, and functional or evolutionary genomics. The applicant should use molecular, genomic, and/or quantitative approaches in model, crop, algal, or ecological systems. Experience in computational, bioinformatic, and statistical analyses is desirable. The successful applicant will contribute to undergraduate and graduate teaching and maintain an externally funded research program. Applicants should have a strong record of accomplishments and publications.

To apply, applicants should provide curriculum vitae, summary of research accomplishments and future research objectives, brief description of teaching philosophy and goals, and a list of three references in a single PDF document to Plantgenomicbi-

ology@plantbiology.msu.edu. Candidates also need to submit an application for this position through the MSU Human Resources site at http://jobs.msu.edu/ (posting #5077). Note, that although the website indicates that materials be split and submitted in specific categories, one PDF file is preferred.

Information about the Department of Plant Biology can be found at http://www.plantbiology.msu.edu. The review of applications will begin October 1, 2011 and continue until a suitable candidate is identified. Questions regarding this position may be addressed to Robin Buell at Plantgenomicbiology@plantbiology.msu.edu.

Persons with disabilities have the right to request and receive reasonable accommodation. Michigan State University is an Affirmative Action/Equal Opportunity Employer.

shius@msu.edu

NorthCarolinaState CuratorDirector

The North Carolina State Museum of Natural Sciences (http://www.naturalsciences.org/) seeks a Director of Research & Collections to lead a department of 17 permanent staff, housing more than 3 million specimens in Geology, Paleontology, Invertebrates, Fishes, Amphibians & Reptiles, Birds, and Mammals. The successful candidate will have a strong background in collection-based research; be knowledgeable in museum science, curation, and policy; have a strong record of grantsmanship; have considerable management experience; and provide a vision for collection-based research at the museum, including integration with the museum's new interactive science education wing, the Nature Research Center. A Ph.D. in biology, environmental science, or related field is preferred.

More details and application instructions are available at http://osp.its.state.nc.us/-positiondetail.asp?vacancykey=4328-60034979&p .Applicants must submit a NC State Application for Employment form PD-107 completed in full; additional supporting materials such as cover letter, CV, and copies of publications are recommended.

Please note that the closing date for applications is 30 September 2011.

bryan.stuart@ncdenr.gov

Portugal ResTech BacterialEvol

Technician Research Post Institute Gulbenkian de Ciencia Location: very close to Lisbon, Portugal Closes: Open Until Filled

The Institute Gulbenkian de Ciencia (Portugal) offers a technician research fellowship under the supervision of Dr. Isabel Gordo (who leads the Evolutionary Biology group) to work on experimental evolution in bacteria. The project, funded by the European Research Council, has the global aim of studying adaptation of *E. coli* within ecosystems. The candidate should have a Ms degree in biology. Some experience in microbiology and/or immunology and molecular biology would be valuable.

For more information on the research group, please visit http://www.igc.gulbenkian.pt/research/unit/61 Thank you very much,

Isabel Gordo

Isabel Gordo Evolutionary Biology Group Instituto Gulbenkian de Ciência http://eao.igc.gulbenkian.pt/-EB/EB_Isabel.html gordo.isabel@gmail.com

PrincetonU EvolutionaryBiol

SENIOR PROFESSOR INTEGRATIVE ECOLOGY, EVOLUTION AND/OR BEHAVIOR

The Department of Ecology and Evolutionary Biology at Princeton University seeks a senior faculty member to bring a world-leading research program to Princeton. A common appreciation of theory, natural history and evolutionary thinking unites our Department that has broad interests in ecology, evolution, behavior, conservation, functional biology, disease and biogeochemistry.

Applications, including a vision of where the candidate's program is headed, curriculum vitae, and names and email addresses of three potential referees, should be addressed to Daniel Rubenstein, Search Committee Chair, and submitted online via http://-jobs.princeton.edu, Req #0110624. Screening of applications will continue until the position is filled.

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

(Direct link to the online posting of Job Req #0110624: https://jobs.princeton.edu/applicants/jsp/shared/-position/JobDetails_css.jsp?postingId=183394)

Diane Carlino Department Manager Ecology and Evolutionary Biology Princeton University 104A Guyot Hall 609-258-5810 dcarlino@princeton.edu

Diane Carlino <dcarlino@Princeton.EDU>

Taipei MicrobialDiversityBioinformatics

Position: Ecology, Microbial Diversity, or Bioinformatics

The Biodiversity Research Center (BRC), Academia Sinica, Taipei, Taiwan (see homepage at http://-biodiv.sinica.edu.tw/), invites applications for a tenure track position in terrestrial ecology, microbial diversity or bioinformatics. The rank is open, though junior scientists are preferred. Candidates with a research interest in ecology, microbial diversity, or bioinformatics are encouraged to apply. Candidates with good postdoctoral research experience are preferred. BRC is in an expansion mode. The center provides good internal research support. It is strong in marine biodiversity and molecular and genomic evolution and it has set up a sequencing core with one 454 and two Illumina machines. The center wishes to strengthen research in terrestrial ecology, microbial diversity, and bioinformatics. An applicant should submit the names and e-mail addresses of three references along with CV (including a list of publications), 3$B!](B5 representative papers (pdf files), and a statement of past achievements and future research interests to Ms. Ining Wu (ining@gate.sinica.edu.tw). A review of applicants will be conducted in the fourth week of October, 2011, but the position will be open until filled.

wli@uchicago.edu

UBuffalo EvoDevoGenomics

*DEVELOPMENTAL GENOMICS

FACULTY POSITION-*The Department of Biological Sciences (*website:http://www.biology.buffalo.edu*) at the University at Buffalo (SUNY) is seeking outstanding applicants for a tenure-track *ASSISTANT PROFESSOR* position in the broad field of Developmental Genomics. All candidates with research interests in the fundamental mechanisms that control cellular or organismal development and/or differentiation are encouraged to apply. To apply, electronically submit curriculum vitae, description of current and future research interests (three pages maximum), and copies of published or in press publications (no more than five) from recent postdoctoral work to *website:https://www.ubjobs.buffalo.edu/-applicants/Central?quickFind=54436.* Applications will be reviewed upon completion and must be received by November 15, 2011. Please consult our website for information about the University at Buffalo, our department and our community.

/The University at Buffalo is an Equal Opportunity Employer/Recruiter./

– Victor A. Albert Empire Innovation Professor of Biological Sciences University at Buffalo (SUNY) http:/-/biology.buffalo.edu/Faculty/Albert/albert.html vaalbert@buffalo.edu

UCaliforniaDavis TechLabManager GenomicVariation

Molecular Biology Technician and Lab Manager Positions

Where: Department of Animal Science, Genomic Variation Laboratory, University of California, Davis

Laboratorys Research Emphasis: Conservation genetics of threatened and endangered wildlife, fisheries management, and aquaculture. See http://genome-lab.ucdavis.edu/ for more information.

Position Closes: when filled

Duration: Minimum of two years, potential for longer term

Qualifications: Bachelors or Masters degree in a biological science with experience in a molecular biology laboratory setting and ability to work independently while functioning within an interactive team environment. Technician position would be a great experience

for a graduating senior who expects to attend graduate school in two years. Experience in bioinformatics would be a plus.

*Principal Responsibilities: *Assisting GVL director, graduate students, and post-docs gather and analyze molecular genetic data from threatened and endangered fish species in California that can be used to help manage these species. Responsibilities will involve DNA extraction, PCR, microsatellite genotyping on capillary machines, sequencing including next-gen protocols, and SNP genotyping on high throughput technologies, data entry and database/collections organization, and other routine laboratory activities. Laboratory manager expected to provide technical mentorship and expertise to lab members as needed.

Salary: commensurate with experience, entry level $33,672

Note: Applicants with considerable research experience and an MS degree will be considered for the Lab Manager position at a higher pay grade.

Contact: Send a CV and cover letter to Bernie May bpmay@ucdavis.edu. Please indicate if you would like to be considered for the technician or lab manager position.

Melinda Baerwald <mrbaerwald@ucdavis.edu>

UCalifornia SanDiego EvolutionarySystemsBiol

Division of Biological Sciences University of California San Diego

Evolutionary systems biology - Rank Open

The Section of Ecology, Behavior and Evolution seeks tenured and tenure-track applicants with research interests in the evolution of multi-component interactions in biological systems. Preference will be given to conceptually oriented individuals who use theory and/or emerging technologies to quantify experimentally the mechanistic and causal connections between genes, function, fitness, and evolution. This position is part of an initiative for growth in the areas of systems and quantitative biology in the Division and at UCSD. The Division of Biological Sciences at UC San Diego (http://biology.ucsd.edu/index.html) is committed to academic excellence and diversity within the faculty, staff, and student body.

The successful candidate is expected to complement existing strengths in the Section and to participate in the development of systems and quantitative biology on campus. Candidates must have earned a Ph.D. and have demonstrated excellence and creativity in research and scholarship. The successful candidate will participate in the graduate and undergraduate teaching curricula. Preference will be given to candidates with experience in equity and diversity with respect to: teaching, mentoring, research, life experiences, or service towards building an equitable and diverse scholarly environment. The level of appointment will be commensurate with qualifications and experience. Start-up funds will be provided to establish a competitive research program, and salary will be based upon the University of California pay scale.

Complete applications received by October 31, 2011, will be assured of consideration. Interested applicants must submit cover letter, curriculum vitae, a statement of research, a statement of teaching, contact information for 3-5 references and a statement describing their past experience and leadership in equity and diversity and/or their potential to make future contributions in the field. Applications must be submitted through the University of California San Diego's Academic Personnel RECRUIT system at https://-apol-recruit.ucsd.edu/. Further details about the required application material can be found at: http:/-/biology.ucsd.edu/jobs/ladder_info.html . UCSD is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to excellence through diversity.

Thanks, Kim

Kim James Division of Biological Sciences Academic Personnel Manager 9500 Gilman Drive | Urey Hall, Room 1730 La Jolla, CA 92093-0346

ph: (858)534-6387 | fax: (858)534-6341

Kim James <kimjames@ucsd.edu>

UCalifornia SanFrancisco EvolutionaryGenetics

This Faculty Position is geared for someone with training in Evolutionary Genetics.

Faculty Position in Gene-environment interactions pertaining to lung health and disease in humans University of California, San Francisco

The UCSF Lung Biology Center (LBC) and the Department of Medicine invites applications for a faculty position at the Assistant or Associate Professor level. Preferred candidates should have a demonstrated interest in gene-environment interactions pertaining to lung health and disease in humans. This may include computational biology, epigenetics, human population genetics, genetic epidemiology, and/or statistical genetics.

Candidates must have a doctoral degree (board certified M.D. or Ph.D.) and must have outstanding written and communication skills. The successful candidate should demonstrate an interest and track record in collaborative, interdisciplinary and translational research that is directly applicable to human populations. The successful candidate will be part of the Lung Biology Center and the Center for Genes, Environments & Health. The individual will be eligible for membership in the UCSF Biomedical Sciences Graduate Program and the Institute for Human Genetics. The new faculty member will be expected to teach in educational programs affiliated with the Schools of Pharmacy and Medicine and to establish an independent research program that will attract and maintain extramural funding. The expected starting date is July 1, 2012. The Chair of the search committee is Esteban G. Burchard, M.D., M.P.H.

UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. UCSF is an Equal Opportunity/Affirmative Action Employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, and for covered veterans. All qualified applicants are encouraged to apply, including minorities and women.

Please send a CV, a brief description of research interests, and names of three references before October 1, 2011 to christine.mok@ucsf.edu.

Esteban González Burchard, M.D., M.P.H. Professor, Departments of Bioengineering & Therapeutic Sciences and Medicine Director, Center for Genes, Environments & Health Vice Chair, Department of Bioengineering & Therapeutic Sciences University of California, San Francisco Phone: 415-514-9677 Fax: 415-514-4365 Email: Esteban.Burchard@ucsf.edu Lab web site: http://bts.ucsf.edu/burchard/ Mailing Address: UCSF/Lung Biology Center Box 2911 San Francisco, California, 94143-2911

Shipping Address: UCSF MC 2911 Rock Hall Room 584 D 1550 4th Street San Francisco, California, 94158-2324

"Burchard, Esteban" <Esteban.Burchard@ucsf.edu>

UCincinnati 2 EvolutionaryBiol

Two Tenure-Track Faculty Positions in the Department of Biological Sciences, University of Cincinnati (http://www.artsci.uc.edu/biology), at the Assistant level. We seek individuals studying (1) SENSORY BIOLOGY, using cellular/molecular approaches to understand the function and/or evolution of sensory systems, which complement existing strengths in Sensory Biology, Behavior & Evolution; (2) PHYSIOLOGY, investigating responses of organisms to environmental stress at the molecular, cellular or ecosystem level. This position will complement existing strengths in Environmental Change & Biological Resilience. Applicants must hold a Ph.D. and have postdoctoral experience. Successful candidates will build an outstanding, externally-funded research program, contribute to undergraduate and graduate teaching, and fulfill service duties. Apply online at https://www.jobsatuc.com (Positions 211UC1722, 211UC1719) by submitting cover letter, curriculum vita, and statements of research interests and teaching philosophy. Send three letters of recommendation and three representative reprints separately (PDF preferred) to: wischer@ucmail.uc.edu . Review of applications will begin November 15, 2011 until the position is filled. The University of Cincinnati is an affirmative action/equal opportunity employer. Women, minorities, disabled persons, and Vietnam Era and disabled veterans are encouraged to apply.

– Regina S. Baucom Assistant Professor Dept of Biological Sciences 721 Rieveschl Hall University of Cincinnati Cincinnati OH 45221 (513) 556-9721 Baucom Lab < http://homepages.uc.edu/ ˜ baucomra/Baucom_Lab/-Home.html > gina.baucom@gmail.com

Regina Baucom <gina.baucom@gmail.com>

UDuesseldorf PopulationGenetics

Job announcement

At the Institute Evolutionary Genetics (Prof. Dr. Beye), Department of Biology (University of Duessel-

dorf; Germany) we are seeking

a group leader researcher

with interest in

Evolutionary Genetics

CLOSING DATE: November 15, 2011

DURATION: six years, starting February 1, 2012.

DESRIPTION: The Institute of Evolutionary Genetics at the University of Duesseldorf (Germany), is seeking a group leader researcher with an interest in population genetics. The researcher should support our interdisciplinary research goals and establish an independent research profile. Our lab studies the molecular basis of innovations. We use honeybee as a model, because of its fascinating traits such as complementary sex determination, complex behaviors and social organization. We would like to understand how such new traits are generated/regulated and how they evolved.

REQUIREMENTS: Post-Doc and teaching experience in the relevant disciplines (German language is partly required).

To APPLY: send via email a CV, cover letter briefly outlining research and interests, and contact information for three references to:

Martin.Beye@uni-duesseldorf.de Professor Martin Beye Heinrich-Heine Universitaet Duesseldorf; Biologie, Institut für Evolutionsgenetik Universitaetsstr. 1; Gebäude 26.02, Ebene 02 40225 Düsseldorf Telefon: 0211/8112075 Web-Seite: http://www.uni-duesseldorf.de/sfb590/bienen/bienen/index.htm Martin Beye <Martin.Beye@uni-duesseldorf.de>

UFlorida LabTech InsectEvol

The Kawahara Lab at the University of Florida, Gainesville, is currently seeking to hire a full-time Laboratory Technician / Manager in Molecular Systematics / Phylogenomics.

Required: Experience with molecular genetic methods including DNA isolation, PCR, automated sequencing, and database management. A minimum of a bachelor's in biology, biochemistry, molecular evolution or equivalent is expected.

Desired: Familiarity with Next Generation Sequencing, computer programming/scripting in Perl/Python. An interest in insect evolution is also desired.

The position centers around research on comparative genomics and molecular systematics of Lepidoptera (butterflies and moths). Responsibilities include maintenance of laboratory equipment, curation of frozen tissue collection, sample preparation of genomic libraries for NGS, purchasing of supplies and training students. The successful candidate will work closely with postdocs and students in the lab, have strong organizational skills and show careful attention to detail. Position available October 1, 2011 or until the position is filled. Expected starting salary will be $25,000 negotiable based on qualifications and experience.

To ensure full consideration please apply online at http://jobs.ufl.edu (requisition # 0809143). Any questions can be addressed to Akito Kawahara at kawahara@flmnh.ufl.edu. A lab website can be found at: http://www.flmnh.ufl.edu/mcguire/kawahara/ Akito Y. Kawahara Assistant Professor McGuire Center for Lepidoptera and Biodiversity Florida Museum of Natural History University of Florida SW 34th St. and Hull Rd. PO Box 112710 Gainesville FL 32611 www.flmnh.ufl.edu/mcguire/kawahara/ kawahara@flmnh.ufl.edu

UIdaho LabManager EvolGenomics

Laboratory Manager in Evolutionary Genomics Hohenlohe Lab, Institute for Bioinformatics and Evolutionary Studies University of Idaho

A laboratory manager position is available to assist in evolutionary genomics research, including RAD sequencing and other advanced techniques in molecular genomics.

Specific responsibilities include: - Assist principal investigator, postdoctoral fellow, and graduate students by conducting basic molecular biology lab work. Specifically, use the following techniques with supervision by principal investigator or postdoctoral fellow: DNA extraction, PCR, gel electrophoresis, and other DNA sample preparation techniques. - Curate and archive DNA and other laboratory samples. - Train and assist graduate and undergraduate students in particular techniques as needed. - Directing the day-to-day aspects of lab management, including ordering supplies, preparing and maintaining stock solutions and media, ensuring compliance with laboratory chemical and radiation safety regulations and developing and maintaining lab protocol records. - Supervising student employees who

help with dishwashing, lab organization, and maintaining supplies of research materials. - Contribute to intellectual environment of the lab by helping to design experiments and influence the trajectory of the research program.

Requires: - Bachelors degree in Biology, Molecular Biology, or related field; OR equivalent combination of education and/or experience totaling approximately 4 years.

Target start date: January 2012 or sooner Lab website: http://webpages.uidaho.edu/hohenlohe/ Questions: hohenlohe@uidaho.edu Please see full announcement and submit application materials at: https://-www.sites.uidaho.edu/AppTrack/Agency/Applicant/-ViewAnnouncement.asp?announcement_no=-17536082811 The University of Idaho does not discriminate against an individual with a disability in regard to job application procedures, the hiring or discharge of employees, employee compensation, advancement, job training, and other terms, conditions, and privileges of employment. Based on this commitment, various job duties on the job description have been analyzed to be essential to this position. Employers can continue to require all applicants and employees, including those with disabilities, to be able to perform the essential, non-marginal functions of the position. Reasonable accommodations may be provided to employees with disabilities to enable them to perform the essential elements of this position. Marginal job functions are ones that an employer may transfer to other individuals or not require to be performed by an individual with a disability.

Paul Hohenlohe Institute for Bioinformatics and Evolutionary Studies Departments of Biological Sciences and Statistics University of Idaho http://webpages.uidaho.edu/hohenlohe hohenlohe@uidaho.edu

UIllinois UC MammalianGenomics

POSITION ANNOUNCEMENT

Integrated Mammalian Genomics University of Illinois at Urbana-Champaign

Position: Assistant or Associate Professor, Full-Time Tenure-Track Position (9 months) in mammalian genomics in the Department of Animal Sciences.

Qualifications: Ph.D. and experience that demonstrates the potential to establish an externally funded research program and excellence in undergraduate and graduate teaching.

Proposed Starting Date: Negotiable after the closing date.

Responsibilities: The Department of Animal Sciences at the University of Illinois at Urbana-Champaign seeks candidates for a position as Assistant or Associate Professor of Integrated Mammalian Genomics. The position offers an opportunity to provide leadership and innovation within an internationally recognized research program and to play a crucial role in the teaching mission of the department. The individual hired for this position will teach and advise undergraduate students, direct graduate and postdoctoral research, compete effectively for private and public research funding, and participate in the public service mission of the university. The successful candidate will be expected to develop an independent program in the area of mammalian genomics involving hypothesis-driven research that uses high-throughput molecular, biochemical and computational genomic approaches. The ideal candidate would investigate relationships between phenotype and genomic responses, in collaboration with faculty in other disciplines, to advance fundamental knowledge in physiology, immunology, and/or metabolism. Candidates whose research includes nutritional genomics using a mammalian model such as the pig may be given preference. Teaching responsibilities will include an undergraduate course in genetics/genomics or a closely related field. The successful candidate will also be expected to develop a course that is within their area of specialization.

Salary: Commensurate with qualifications and experience

Location: University of Illinois at Urbana-Champaign

Resources: The University of Illinois at Urbana-Champaign is home to internationally recognized facilities including the Institute for Genomic Biology, the National Center for Supercomputing Application, the Beckman Institute, the National Petascale Computing Facility (Blue Waters project) and the W.M. Keck Center for Comparative and Functional Genomics.

Closing Date: To ensure full consideration, applications must be received by November 15, 2011.

Applications: Please create your candidate profile at http://jobs.illinois.edu and upload as a single pdf file, a curriculum vitae, a statement of research interest (including future plans), a statement of teaching philosophy, and arrange for three letters of reference to be sent in pdf format to Gloria Sax at saxg@illinois.edu.

Questions can be directed to Dr. Isaac Cann, Chair of the Search Committee (icann@illinois.edu, (217) 333©2090) or to Dr. Neal Merchen, Head of the Department, (nmerchen@illinois.edu, (217) 333-3462). Additional information about the Department and the University can be found at http://-www.ansci.illinois.edu/ or http://illinois.edu/

Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. inclusiveillinois.illinois.edu

https://jobs.illinois.edu/default.cfm?page=-3Djob&jobID=3D12833

UKentucky LabTech EvolBiol

The Linnen Lab at the University of Kentucky is seeking a full-time laboratory technician. Our work is primarily focused on unraveling the genetics, ecology, and demography of adaptation and speciation in natural populations. Our current study systems include: the deer mouse, *Peromyscus maniculatus*, and plant-feeding insects in the genus *Neodiprion.* For additional details about ongoing projects in the lab, please visit our website: http://www.uky.edu/~cli242/-Linnen_Lab/Home.html . Minimum qualifications for this position include: a Bachelors degree in a related field (e.g., Biology, Genetics, etc.) and experience with molecular genetic methods (e.g., DNA/RNA extraction, PCR, sequencing). Also desired are: a familiarity with next-gen sequencing and an interest in evolutionary biology.

Responsibilities include: nucleic acid extractions, preparation of libraries for next-gen sequencing, maintenance of insect cultures, maintenance of greenhouse plants, database entry and management, maintaining laboratory supplies/equipment, and training students.

This is a full-time, 2-year position (with the potential for longer term employment) to start October 2011 (or whenever position is filled). To ensure full consideration, please apply online at https://ukjobs.uky.edu/applicants/jsp/shared/-position/JobDetails_css.jsp(requisition # SM537627). Any questions can be addressed to Catherine Linnen at catherine.linnen@uky.edu.

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Catherine R. Linnen, Ph.D. Assistant Professor Department of Biology University of Kentucky 200A Thomas Hunt Morgan Building Lexington, KY 40506 website: http://www.uky.edu/ ~ cli242/Linnen_Lab/-Home.html Phone (lab): 859-323-3160 Phone (cell): 617-970-7717

clinnen@gmail.com

UMainz 6year EvolBiology

The Faculty 10 Biology, Zoological Institute, Department Evolutionary Biology at the University of Mainz is searching for an

*Assistant Professor**(Akademischer Rat – Scientific Assistant / Bes.Gr. A 13 BBesG)***

(non-tenure track, 6 years – with the possibility of further extension)

in the research area *Evolutionary Biology / Behavioral Ecology *

**

Closing date: 30.9.2011

We invite applications for an *Assistant Professor (Akademischer Rat / A 13)* position in the newly established evolutionary biology group in the Institute of Zoology at Johannes Gutenberg University of Mainz, Germany. We are seeking a highly motivated young researcher with a strong background in evolutionary biology or behavioral ecology to establish a junior research group within Prof. Susanne Foitzik's research team. Candidates must hold a Ph.D. and postdoctoral experience. The successful candidate should address evolutionary or behavioral questions in social insects or other arthropods.

Our research focuses on behavioral and chemical ecology (http://www.bio.uni-mainz.de/zoo/evobio/) and we are interested in collaborative projects. Excellent research conditions are available at the newly renovated and well-equipped genetic and chemical laboratories in Mainz. Furthermore, new climate chambers are available for animal maintenance. 'For further information, please contact foitzik@uni-mainz.de

The successful candidate should have an excellent publication record. Experience with grant acquisition and teaching is advantageous. The candidate should set-up an independent research lab and is encouraged to apply for grants in Germany or abroad (e.g., DFG, EU).

The position comes with a teaching requirement of 4h per week during the semester. Some basic zoology classes have to be taught in German. Consequently, a willingness to learn the German language is required. The candidate has the option to acquire a "Habilitation".

The working language of the lab is English.

The Johannes Gutenberg-Universität Mainz is interested in increasing the number of women in science. Applications from female scientists are strongly encouraged. Similarly, qualified candidates with disabilities will be preferred.

The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng/). Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life (http://www.mainz.de/WGAPublisher/online/html/default/hpkr-5nkek8.en.html).

Interested candidates should send an application (as a single e-mail attachment) containing a CV, a list of publications (including reprints of the three most important publications), research and teaching statements, and contact information for two potential referees to:

Prof. Dr. Susanne Foitzik

Evolutionary Biology Institute of Zoology Johannes-v.-Müller-Weg 6 D - 55099 Mainz +49 6131 894 8118 Germany foitzik@uni-mainz.de

*Closing date for application is September 30^th , 2011 *Starting date for the position is January 1^st 2012, but is negotiable

– Prof. Dr. Susanne Foitzik Evolutionsbiologie Institut für Zoologie Johannes Gutenberg Universität Mainz Johannes von Müller Weg 6 D-55099 Mainz Germany

Tel. +49 (0)6131 39 27 840 Fax. +49 (0)6131 39 27 850 email: foitzik@uni-mainz.de

Susanne Foitzik <foitzik@uni-mainz.de>

UMalaya Bioinformatics 3other

JOB OPPORTUNITY: BIOINFORMATICIANS/COMPUTATIONAL BIOLOGISTS - see below JOB OPPORTUNITY: MOLECULAR BIOLOGIST (PHD/POSTDOC) - see below JOB OPPORTUNITY: SYSTEM ADMINISTRATOR - see below JOB OPPORTUNITY: WEB/DATABASE DEVELOPERS - see below

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JOB OPPORTUNITY: BIOINFORMATICIANS/COMPUTATIONAL BIOLOGISTS

BACKGROUND: We are looking for PhD student/Research Assistant/Postdoc to join a research team at the University of Malaya, Malaysia. We are using high throughput microarray technologies and system biology approaches for large scale analysis of the binding sites and expression profiling of genes. These projects are carried out in collaboration with many national and international partners such as the scientists from the University of Cambridge. Besides that, we will work on various bioinformatics-related projects including analyzing sequence data, genome annotation, metagenomics, molecular docking, and software development.

RESPONSIBILITIES: We are seeking bioinformaticians to help the team provide solutions for biologists. You will play an important role in implementing data mining strategies and analysis for projects in areas such as genomics, genome annotation and biological sequence analysis, web and biological database development, systems biology, and microarrays.

REQUIREMENTS:

Have at least BSc degree in bioinformatics or computational biology or equivalent

Experience with large-scale data mining

Experience with programming (e.g. Perl, Python, Java), databases (e.g. MySQL, PostgreSQL), and Unix

Excellent communication skills and the ability to work in a team

Strong reporting and documentation skills

PREFERENCES:

A PhD in bioinformatics/systems biology is an advantage.

Experience in analyzing large scale data types is further an advantage.

Students who are interested to do PhD at the University of Malaya are also encouraged to apply. They may be eligible to apply for tuition fee exemption under the Graduate Research Assistantship Scheme (GRAS).

COMPENSATION: We offer a competitive salary and a friendly working environment.

LOCATION: University of Malaya, Malaysia

HOW TO APPLY: Applications should be submitted by email to Winnie at win-

nie.my23dna@googlemail.com . All interested candidates irrespective of age, gender, race, or religion are encouraged to apply.

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JOB OPPORTUNITY: SYSTEM ADMINISTRATOR

BACKGROUND: We are looking for a system administrator to join our research team at the University of Malaya, Malaysia.

RESPONSIBILITIES:

To perform installation, configuration and troubleshooting of hardware systems and OS

To perform installation, configuration and troubleshooting of Linux/UNIX based End-User Bioinformatics application

To develop and maintain necessary command line and Web-based application to assist non-IT user

To provide IT supports to biologists

To perform necessary documentation and reporting

REQUIREMENTS:

Candidate must possess at least a Bach Degree in Computer Science / IT

Required skills : Systems Administration for UNIX/Linux, Windows OS,

TCP/IP networking, Shell Scripting, Web Development

Additional Skills : LAN, WAN, SAN, NAS, Backup, Replication, Virtualization, HA

COMPENSATION: We offer a competitive salary and a friendly working environment.

LOCATION: University of Malaya, Malaysia

HOW TO APPLY: Applications should be submitted by email to Winnie at winnie.my23dna@googlemail.com . All interested candidates irrespective of age, gender, race, or religion are encouraged to apply.

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JOB OPPORTUNITY: WEB/DATABASE DEVELOPERS We are looking for web/database developers to join our research team at the University of Malaya, Malaysia.

RESPONSIBILITIES:

To design, implement, and maintain database to support basic research and other needs

To develop web-based application

To provide IT supports to biologists

Website programming for site enhancements

To perform necessary documentation and reporting

REQUIREMENTS:

Candidate must possess at least a Bachelor Degree in Computer Science / IT

Required skills : Systems Administration for UNIX/Linux, Windows OS,

Web Development, SQL Server, C#, JavaScript, HTML, XML, Web Services, AJAX

Experience using LAMP technologies (Linux,

— / —

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

UMichigan 5 EvolutionBiologicalNetworks

The add below appeared in Science in August. Note that we will start looking at applications soon. If you are planning to apply after September 15, please communicate your intent to apply to Sonja Botes at bsonja@umich.edu.

University of Michigan Interdisciplinary Cluster in Diversity and Complexity of Biological Networks

The University of Michigan has five tenure-track faculty positions available in a cluster focusing on biological networks on multiple levels of organization, from molecules and genes to individuals in social systems to entire ecosystems or health systems. Positions are likely to be at the assistant professor level, although exceptional candidates at higher ranks will be considered. Not all positions may be filled this year. We are searching for individuals with interdisciplinary interests who develop and/or use theoretical, computational, statistical, experimental, and/or observational approaches to understand how the structure, evolution, and dynamics of networks relate to their function, robustness, and control. Each hire will have an appointment in one of the five tenure-granting units listed below and will participate in ongoing and new interdisciplinary activities using network approaches, including potential affiliation with the Center for the Study

of Complex Systems. Hiring units include: 1) Ecology and Evolutionary Biology, 2) Molecular, Cellular, and Developmental Biology, 3) Biophysics (all in the College of Literature, Science, and the Arts), 4) Epidemiology in the School of Public Health, and 5) the Center for Computational Medicine and Bioinformatics in the School of Medicine. Teaching duties will depend on curricular needs of the unit. Information regarding the cluster search and links to participating academic units and related research and education initiatives can be found at https://sitemaker.umich.edu/-encrypt/biologicalnetworks/home.

To apply, please see www.lsa.umich.edu/eeb/apply/-networksearch, and arrange to have three letters of recommendation submitted through the same website. Review of applications will begin on 15 September 2011. Women and minorities are encouraged to apply. The University is supportive of the needs of dual career couples. The University of Michigan is an equal opportunity/affirmative action employer.

Mercedes Pascual 1 <pascual@umich.edu>

UMichigan EvolutionaryGenetics

The ad below will also appear in Science and the Chronicle of Higher Education

University of Michigan - Dearborn

Assistant Professor of Biology

The Department of Natural Sciences at the University of Michigan-Dearborn invites applications for two (2) assistant professor positions in biology beginning September 2012. One opening is in the area of cell biology and neurobiology; the other in evolution and genetics. Teaching assignments will include introductory biology lectures and/or laboratory sections in addition to courses in the specialty area. A Ph.D. and post-doctoral research or teaching experience are required for both positions. Successful candidates will be expected to develop and maintain active research programs involving undergraduate students and leading to peer-reviewed publications. The specific areas within cell biology/neurobiology and evolution/genetics are open and should complement existing faculty strengths. Opportunities will exist to develop new undergraduate and master's-level graduate courses. Research space, modest start-up funds, and released time from teaching are available.

Candidates should submit a letter of application specifying the position sought, a current curriculum vitae, a statement of teaching philosophy, a description of research plans, and the names of three references: Biology Search Committee, Department of Natural Sciences, University of Michigan - Dearborn, 4901 Evergreen Rd., Dearborn, MI 48128.

Review of applications will begin November 1, 2011. For further information, please consult: http://-www.casl.umd.umich.edu/naturalsciences/ . The University of Michigan - Dearborn is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment and we strongly encourage applications from women and minorities.

The University is an equal opportunity/affirmative action employer.

danfranc@umd.umich.edu

UMunster IntegrativeEvolution

Westfälische Wilhelms-Universität Münster

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The University of Münster invites applications from outstanding candidates for the position of a Junior Research Group Leader within its "Münster Graduate School of Evolution" (MGSE) Initiative.

The MGSE Initiative brings together researchers from the biosciences, the geosciences, medicine, bioinformatics, mathematics, philosophy, education research, as well as theology, in order to develop a unifying framework for interdisciplinary research and education in evolution.

Leiter einer Nachwuchsgruppe / Junior Research Group Leader

(TV-L E14/15)

for

Integrative Evolution Research

within the "Münster Graduate School of Evolution" Initiative

The Group Leader appointment will be for a period of *five years*. The position will provide start-up resources, two PhD positions and a technician. The institutional affiliation depends on the departments that

the project interfaces. The position is to be filled as soon as possible, and is eligible for tenure.

We expect the group leader to establish joint projects with researchers from at least two departments in the MGSE research areas, with the aim of developing new ways to bridge the different fields. Projects may focus on:

Early Evolution of Life, Levels of Biodiversity, Philosophy of Biology/Philosophy of Evolution, Evolutionary Theory, Growth of Evolutionary Thought.

However, new project ideas are also welcome.

The Junior Research Group shall play an important role in the development of the MGSE, and the group leader is expected to participate actively in the implementation of the Graduate School, especially in the interdisciplinary teaching programme (Studium Integrale).

Applicants must have a doctorate in a discipline related to the proposed project. Postdoctoral experience and a strong publication record are expected. The application should demonstrate a wide intellectual scope and broad experience in interdisciplinary work. Interested candidates should submit their Curriculum Vitae, including a publication list, a synopsis of their current and proposed research, teaching experiences, references, and a statement about their strategies concerning interdisciplinary work, to arrive by *3^rd October 2011*. This should be sent as a single PDF file to joachim.kurtz@uni-muenster.de <mailto:joachim.kurtz@uni-muenster.de>.

The University of Münster is an Affirmative Action, Equal Opportunity employer committed to excellence through diversity.

For more information refer to the MGSE website (http://ieb.uni-muenster.de/mgsei/) or contact

Prof Joachim Kurtz

Institute for Evolution and Biodiversity, WWU Münster, Hüfferstraße 1, D-48149, Germany

joachim.kurtz@uni-muenster.de

Andreas Wessel <awess_02@uni-muenster.de>

UNebraskaLincoln MathematicalBiology

One tenure-track Assistant Professor position in Mathematical Biology in the Department of Mathematics, University of Nebraska-Lincoln.

Qualifications: The successful candidate will have a Ph.D. in mathematics or a closely related field, and potential for research and teaching in mathematics at a research university. Preference will be given to applicants whose research program is in an area of mathematical biology that complements or builds upon existing strengths of the department and/or a UNL life science department, and that strengthens the UNL campus-wide Life Sciences Initiative. Applications from entry level people as well as from people with prior postdoctoral experience are encouraged.

Starting Date: August 2012

First Review: Review of applications will begin December 12, 2011 and continue until a suitable candidate has been selected.

Duties/Responsibilities: Teaching responsibilities include graduate and undergraduate courses in mathematics. The ideal candidate will be able to establish a strong, independent research program in mathematical biology.

Salary/Benefits: A competitive starting salary will be negotiated. UNL makes available life, health, and long-term disability insurance programs as well as family coverage at reasonable group rates to the employee. TIAA/CREF and/or Fidelity Investment Fund are offered for retirement plans.

Applications: Applicants should submit a letter of application, a CV, separate statements addressing research and teaching, and at least three letters of reference, at least one of which should address teaching, to: Mathematical Biology Search Committee Chair Department of Mathematics 203 Avery Hall University of Nebraska-Lincoln Lincoln NE 68588-0130

Applications are encouraged to use the AMS application cover sheet and to submit their applications via mathjobs.org. In addition, to be considered for the position, applicants must also complete the Faculty/Administrative application at: http://-employment.unl.edu, requisition # 110586.

Phone: 402-472-8822 FAX: 402-472-8466 e-mail: hiring@math.unl.edu

For more information see the department's web site at: www.math.unl.edu The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.

Etsuko Moriyama, PhD Associate Professor

School of Biological Sciences & Center for Plant Science Innovation University of Nebraska-Lincoln 403 Manter Hall Lincoln, NE 68588-0118

Email: emoriyama2@unl.edu Phone: 402-472-4979, Fax: 402-472-2083 (SBS business office)

emoriyama2@unlnotes.unl.edu

UNorthCarolina ChapelHill EvolutionaryGenomics

Faculty Position in Metagenomics University of North Carolina at Chapel Hill

The UNC-Chapel Hill Department of Biology seeks a tenure-track Assistant Professor in metagenomics. Genome-scale and systems-biology tools can now be applied to communities of organisms. We seek an individual with expertise in using modern system-scale approaches to understand the organizing principles, behavior, evolutionary and ecological dynamics of organisms in structured communities. This could include (but is not limited to) the application of metagenomics to an experimentally tractable system to probe inter-organismal interactions that might be parasitic/pathogenic, mutualistic, or symbiotic/commensal.

Innovative experimental systems, data analysis, and modeling approaches are needed to understand the ecological, evolutionary, and functional interactions within communities. Therefore, applicants with a strong record of experimental work and the quantitative skills required for data analysis and integration are especially encouraged. The successful applicant will be housed in our new Genome Sciences Building and will benefit from membership in the Carolina Center for Genome Sciences (http://genomics.unc.edu/-). UNC has a large and successful high-throughput sequencing facility. The successful candidate will contribute to a new initiative in Quantitative Biology (http://www.bio.unc.edu/News/FacultySearch/-UNC_Qbio_Program.pdf) and would be affiliated with the NIH-funded graduate Curriculum in Bioinformatics and Computational Biology (http://bcb.unc.edu).

TO APPLY: Submit a cover letter ending with up to 5 key words, a CV, a research statement (<4 pages; 1 inch margins), a teaching statement (<2 pages; 1 inch margins) and optionally one additional supporting document.

Click on http://jobs.unc.edu/2501695 from any internet browser to apply for this position.

Four letters of reference are required, and may be submitted with electronic signature to cpasternak@bio.unc.edu.

Review of applications will begin November 1, 2011 with interviews occurring in early 2012. The position will be effective on or after January 1, 2013. The successful candidate must have a Ph.D. in a relevant field.

The University of North Carolina is an equal opportunity employer.

http://www.bio.unc.edu For inquiries, please contact Dr. Jeff Dangl (dangl@email.unc.edu; 919-962-5624).

UOregon Zebrafish EvoDevo

Faculty Position in Molecular, Cellular, Developmental or Physiological Mechanisms in Zebrafish

The Institute of Neuroscience (ION) (http://-uoneuro.uoregon.edu) and the Department of Biology at the University of Oregon seek to fill an open rank or senior level tenure-related faculty position in Fall 2012. We are particularly interested in candidates using zebrafish to address fundamental questions in cell biology, development, neuroscience, genetics, and evolution, but we invite applications from candidates using zebrafish to investigate any fundamental biological processes. The successful candidate will complement the existing strengths of our internationally-recognized and highly-interactive zebrafish group, have an outstanding research program, and demonstrate a clear commitment to excellence in teaching. Ph.D. required. Applications accepted online for the University of Oregon ZEBRAFISH SEARCH at URL https://academicjobsonline.org/ajo/jobs/996 . Applicants should submit a cover letter, a curriculum vitae including a publication list, a statement of research accomplishments and future research plans, a description of teaching experience and philosophy, and three letters of recommendation. Submission of 1-3 selected reprints is encouraged. Application materials should be uploaded by November 1, 2011, but the search will remain open until the position is filled. Position is subject to criminal background check.

Women and minorities are encouraged to apply. The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with

Disabilities Act, and supportive of the needs of dual career couples. We invite applications from qualified candidates who share our commitment to diversity.

Patrick C. Phillips, Professor and Department Head, Biology Institute of Ecology and Evolution Email: pphil@uoregon.edu Phone: (541) 346-0916 | FAX (541) 346-2364 Address: 5289 University of Oregon Eugene, OR 97403-5289 USA Web: Lab http://www.uoregon.edu/ ˜ pphil IEE http://-evolution.uoregon.edu

pphil@uoregon.edu

UOtago OneYearTeachingPosition

Lecturer in Botany-1100479

DEPARTMENT OF BOTANY

Join our team of plant researchers and contribute to teaching in the Botany Degree Programme at undergraduate and postgraduate levels. We have research strengths from the cell to the ecosystem, laboratory- and field-based, and work in environments from the mountains to the sea. The successful applicant will have the opportunity to work with experts in biotechnology, ecology, evolution, genetics, physiology, mycology, phycology and virology.

Applications are welcome from those with a botanical research background (especially with quantitative skills) who could teach into some of our existing courses, but particularly from amongst BIOL 113 Biology of Plants, ECOL 111 Ecology and Conservation of Diversity, BTNY 322 Mycology and Plant Pathology, BTNY 326 Plant Diversity and Evolution, and BTNY 467 New Zealand Plant Ecology and Evolution.

The position will be offered as a fixed-term (9-month) position at the level of Lecturer. The successful candidate is expected to take up duties in mid-February 2012. The minimum qualification is a PhD degree.

The Department is committed to diversity in staffing, and would consider job sharing arrangements or applications from those seeking a research and teaching sabbatical.

Further information may be obtained from http://-www.otago.ac.nz/botany Specific enquiries may be directed to Professor Kath Dickinson, Head of Department.

Applications will close on Monday, 3 October 2011.

Additional Information

Contact Prof. Kath Dickinson Tel: 03 479 9059

Position details Information link: https://-otago.taleo.net/careersection/2/jobdetail.ftl?lang=-en&job=1100479 Hamish Spencer <hamish.spencer@otago.ac.nz>

UOttawa EvolutionaryBiology

Reminder â application deadline Sept. 30/2011.

*Tenure-track faculty position, Department of Biology, University of Ottawa, CANADA

Note that the position advertised below is open to any field of biological research and those with evolutionary interests are encouraged to apply. Preference will be given to candidates who could contribute to the teaching of field biology. Ability to teach in French and English is pretty much essential.

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THE UNIVERSITY OF OTTAWA invites applications for a tenureâtrack faculty position in the Department of Biology. Candidates must have a solid research program and the ability to contribute to our teaching in field biology. Exceptional candidates with interests in other areas of Biology may also be considered. Appointments will normally be at the Assistant Professor level although appointment at a higher rank may be possible. Candidates must have a PhD, a strong publication record, and good communication and teaching skills. The University of Ottawa is North Americaâs largest bilingual university; the successful applicant must be able to teach effectively in both French and English.

The candidate will join a vibrant, research-intensive Department (www.biology.uottawa.ca) of 40 faculty members with strengths in bioinformatics, cellular/molecular biology, conservation, ecology, evolution, and physiology. The Department is also home to interdisciplinary initiatives through the laboratory facilities of the Center for Advanced Research in Environmental Genomics (www.careg.uottawa.ca) and the Institute of the Environment (www.ie.uottawa.ca). The successful candidate will participate in undergraduate and graduate teaching in the Biology, Biopharmaceutical Sciences, Biomedical Sciences, and/or Environmental Sciences programs.

Before September 30, 2011, applicants should send a cover letter detailing their linguistic abilities, a curriculum vitae, a 2-page description of their proposed research program, a 1-page statement of teaching interests and philosophy, and the names and contact information of 3 referees.

All documents should be arranged in the above order and sent as a single PDF file, named by the candidateâs last and first names, to biochair@uottawa.ca.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Equity is a University of Ottawa policy; women, Aboriginal peoples, members of visible minorities and persons with disabilities are encouraged to apply.

The University of Ottawa is proud of its 160-year tradition of bilingualism. Through its Official Languages and Bilingualism Institute, the University provides training to staff members and to their spouses in their second official language. At the time of tenure, professors are expected to have the ability to function in a bilingual setting.

http://www.academiccareers.uottawa.ca/node/349
howard.rundle@uottawa.ca

UPennsylvania EvolutionaryGenetics

The Department of Genetics at the Perelman School of Medicine at the University of Pennsylvania (http://-www.med.upenn.edu/genetics/index.shtml) seeks candidates for an Assistant Professor position in the tenure track. Responsibilities include developing an independent research program and participating in graduate and medical school education. The successful applicant will have experience in an identified area of genetics such as the regulation of eukaryotic gene expression, or human genetics/genomics. Attractive laboratory space and resources are available. For more information about the department, visit http://-www.med.upenn.edu/genetics/. Applicants must have an M.D. or Ph.D degree and have demonstrated excellent qualifications in Education and Research.

Applications will be reviewed beginning October 15 and accepted until December 1, 2011.

Apply for this position online at: http://-www.med.upenn.edu/apps/faculty_ad/index.php/-g/d2685 The University of Pennsylvania is an equal opportunity, affirmative action employer. Women and minority candidates are strongly encouraged to apply.

Sarah Tishkoff, Ph.D. David and Lyn Silfen University Associate Professor Departments of Genetics and Biology University of Pennsylvania

Tel: 215-746-2670

tishkoff@mail.med.upenn.edu

http://www.med.upenn.edu/tishkoff/

USingapore Biodiversity

Assistant Professor/Associate Professor/Professor Department of Biological Sciences

The Department of Biological Sciences, National University of Singapore (NUS), invites applications for faculty positions at the junior (tenure-track) or senior level in *Environmental Biology and Biodiversity Studies*. NUS is a world-class university that is strategically located within a tropical biodiversity hotspot. Candidates with a strong research background in environmental and biodiversity research and a strong commitment to undergraduate and postgraduate education are invited to apply. Currently, Singapore has allocated substantial funding for research in aquatic ecosystems, climate change, and the sustainability of urban environments.

Successful applicants will join a growing Environmental Biology group within a diverse Department of Biological Sciences with 60 full-time faculty members and over 300 graduate students from 19 countries. Facilities and research support are world-class and the university (www.nus.edu.sg) and department (www.dbs.nus.edu.sg) are internationally highly regarded. The university offers internationally competitive salary packages in Singapore's low tax environment.

Interested, strong candidates with PhD and postdoctoral experience should forward a letter of intent describing their career goals, research plans, teaching interests, curriculum vitae and provide the names for at least five referees. Please send the material to:

Chair, Environmental Biology Search Committee - Professor Rudolf Meier (c/o Ms Lisa Lau) Department of Biological Sciences National University of Singapore 14 Science Drive 4 Singapore 117543 Fax: (65) 6779 5671;

Email: dbsjobs@nus.edu.sg

Closing date of application: *31 January 2012*

Thanks a lot!

Guanyang Zhang Department of Entomology, UC Riverside

Guanyang Zhang <gyz151@gmail.com>

USouthCarolina ChairDeptBiol

Professor and Chair, Department of Biological Sciences

We invite applications and nominations for a prominent academic scientist and leader to serve as Professor and Chair of the Department of Biological Sciences (www.biol.sc.edu).

Applicants should currently hold or be immediately eligible for promotion to the rank of Professor. They should have a record of sustained academic excellence and current extramural research funding, an ability to develop and interact with multidisciplinary programs along with experience in graduate and undergraduate training.

The successful candidate will have both the vision and leadership skills necessary to guide the research, teaching and service missions of the Department and to promote collaborative efforts both within the Department and other research programs within and outside the University. Ranked among the top 30 Ph.D. programs in the Biological Sciences in the United States by the National Research Council, the Department of Biological Sciences is a multidisciplinary unit of approximately 1,200 Undergraduates, 80 Graduate Students and 40 Faculty from various areas including Biochemistry, Bioinformatics, Cancer Biology, Cell and Molecular Biology, Ecology and Evolution, Genetics, and Plant Sciences . Review of applications will begin October 15, 2011. To ensure full consideration, applications must be received by November 15, 2011. The review process will continue until the position is filled.

Applications should include a curriculum vita and a statement of research, teaching and leadership goals. The names, mail and e-mail addresses and phone numbers of at least three references holding the rank of Professor should also be provided.

Applications should be e-mailed in PDF format or sent to Peggy Breeland, Administrative Coordinator, Chair Search, Department of Biological Sciences, University of South Carolina, 715 Sumter Street, Columbia, SC 29208 (breeland@mailbox.sc.edu).

The University of South Carolina is an affirmative action/equal opportunity employer. Minorities and women are especially encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities or decisions for qualified persons on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

"Joseph M. Quattro" <josephq@mailbox.sc.edu>

USouthDakota EvolutionaryBiol

The Department of Biology at the University of South Dakota is recruiting an Assistant Professor (tenure track) in Integrative Biology.

We seek candidates who use modern molecular techniques to address questions that integrate organismal function with environmental, evolutionary, and/or developmental influences. The successful candidate's research will complement that of existing faculty, enabling fruitful collaboration and mentoring of graduate students. Opportunities for collaboration include faculty with research interests that scale from molecules to landscapes. Research support includes the departmental DNA sequencing facility, and proteomic/ genomic core facilities on campus.

Teaching includes molecular biology, courses in the candidate's area of expertise, and possible participation in team-taught introductory biology.

The successful candidate will demonstrate the ability to establish a productive and extramurally funded research program and actively train M.S. and Ph.D. students. Position will begin August 2012. A Ph.D. is required and postdoctoral experience is preferred.

How to Apply: Applicants must apply online at https://-/ yourfuture.sdbor.edu and must provide a cover letter that describes background with respect to the qualifications listed above, statements of research and teaching interests, a CV, and names and contact information for at least professional three references. Questions regarding the position may be directed toward Dr. David Swanson, Integrative Biologist Search Chair (david.swanson@usd.edu).

Review of applications will begin October 17, 2011, and will continue until the position is filled.

The University of South Dakota is an Affirmative Action/Equal Opportunity Employer committed to increasing the diversity of its faculty, staff and students.

Molly Nepokroeff <mnepokro@usd.edu>

USouthernCalifornia ComputationalBiol

Assistant Professor

Computational Biology and Bioinformatics

University of Southern California The Molecular & Computational Biology Section of the Department of Biological Sciences in the Dana and David Dornsife College of Letters, Arts and Sciences at the University of Southern California invites applications for a tenure-track Assistant Professor beginning Fall 2012 in computational population/evolutionary genomics. We seek an innovative, productive scientist who is making significant contributions to the field. The successful candidate will be expected to participate in undergraduate and graduate teaching and to establish a vigorous, externally funded research program. The position will be in the Molecular and Computational Biology (MCB) Program, which is a unique collaborative environment with strong expertise in the generation and quantitative analysis of molecular biology data. The MCB Program includes an NIH Center of Excellence in Genomic Science. For additional information please visit our website http://www.cmb.usc.edu/ Review of applications will begin immediately. Please apply through http://www.cmb.usc.edu/ with a curriculum vitae, research plan and three reference letters, or, if necessary, Eleni Yokas, Computational Biology Search Committee, Department of Biological Sciences, RRI201, University of Southern California, Los Angeles, CA 90089-2910 by November 1. For more information, contact Fengzhu Sun (fsun@usc.edu), search committee chair. In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser: https://jobs.usc.edu/applicants/Central?quickFind=60837 USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups, are encouraged to apply.

Matt Dean <matthew.dean@usc.edu>

UStThomas 2 EvolBiol

I'm hoping you can add these two job advertisements to the EvolDir job page. Both are broadly defined and we encourage evolutionary biologists with these emphases to apply.

Jerry Husak

1. StThomas.IntegrativeNeurobiology

The Biology Department at the University of St. Thomas invites applications for a Tenure-Track Assistant Professor to start September, 2012. The Department seeks an integrative neurobiologist whose research and teaching supports both our neuroscience and biology programs. The successful candidate will establish a high-quality research program that provides collaborative opportunities for undergraduates and is competitive for external funding, and will teach undergraduate courses at introductory and/or upper-division levels. Research support will include significant start-up funds, lab space in a modern science facility, and a generous time allocation for research. A PhD is required; postdoctoral experience is strongly preferred. Individuals with interests in human or environmental health are encouraged to apply.

The Biology Department is committed to undergraduate education and engaging undergraduate students in research. Our 17 full-time faculty are regular recipients of major, externally-funded research grants, and our facilities are well-equipped with state-of-the-art instrumentation. The neuroscience program is an interdisciplinary, research-intensive major that includes coursework in Biology, Chemistry, and Psychology, leading to the Bachelor of Science degree in Neuroscience. The Department also offers BA and BS degrees in Biology, and BS degrees in Environmental Science and Biochemistry. 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 11,000 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.

Applicants must submit a cover letter, a CV, a description of research agenda and a statement of teaching philosophy and experience at http://jobs.stthomas.edu, and should arrange to have three reference letters sent to Dr. Kurt Illig, Search Committee Chair, Department of Biology, University of St. Thomas, OWS 390, 2115 Summit Ave., St. Paul. MN 55105. For additional information please contact Dr. Kurt Illig at krillig@stthomas.edu. Review of applications will begin October 15, 2011 and will continue until the position is filled.

2. StThomas.EnvironmentalBiology

The Biology Department at the University of St. Thomas invites applications for a Tenure-Track Assistant Professor to start September 2012. The Department seeks to hire an integrative biologist who will teach courses and conduct research in the field of environmental biology and whose work will support both our biology and environmental science programs. We will consider candidates from a broad range of backgrounds, including bioremediation, conservation biology, ecosystem services, human impacts, global sustainability, or environmental change. The successful candidate will establish a high-quality research program that provides opportunities for undergraduate collaboration that is competitive for external funding and will teach undergraduate courses at the introductory and upper-division levels. Research support will include significant start-up funds, laboratory space, and a generous time allocation for research. A PhD is required; postdoctoral experience is strongly preferred.

The Biology Department is committed to undergraduate education and engaging undergraduate students in a dynamic research environment. Our modern facilities are well equipped with state-of-the-art instrumentation and our faculty members are regular recipients of major, externally funded research grants. We offer BA and BS degrees in Biology, and BS degrees in Environmental Science, Biochemistry, and Neuroscience. For more information, visit http://www.stthomas.edu/biology . Established in 1885, the University of St. Thomas is located in the major

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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

UToronto EvolutionaryBiol

The Department of Ecology and Evolutionary Biology at the University of Toronto invites applications for a tenure-stream position in Ecology and Evolutionary Biology at the rank of Assistant Professor level with an expected start date of July 1, 2012. We seek candidates who conduct 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. The successful candidate 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 contribute to the education and training of undergraduate and graduate students. Evidence of excellence in teaching and research is required. 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/)

We strongly encourage you to submit your application online by clicking on the following link http:/-

/www.utoronto.taleo.net/careersection and search for job 1100937 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, Department of Ecology and Evolutionary Biology, 25 Willcocks Street, University of Toronto, Toronto, Ontario, M5S 3B2 Canada. Electronic submission of applications in a single PDF file 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 21, 2011. However, this search will remain open until filled.

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. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Aneil Agrawal Ecology & Evolutionary Biology University of Toronto tel: 416-946-5563 http://-labs.eeb.utoronto.ca/agrawal/ a.agrawal@utoronto.ca

UTulsa EvolPhysiologist

Assistant Professor

Biological Science

University of Tulsa

The Department of Biological Science at the University of Tulsa invites applications for a tenure-track position as Assistant Professor of biology, commencing Fall 2012. Research area is open, but applicants must be able to teach introductory and advanced courses in animal physiology. The successful candidate will establish an independent research program and contribute to both undergraduate and graduate curricula. The Department of Biological Science offers B.S., M.S., and Ph.D. degrees.

To apply, please send curriculum vitae, statement of research and teaching interests and experience, and names and addresses of three references to Dr. Charles R. Brown, Physiologist Search, Department of Biological Science, The University of Tulsa, 800 S. Tucker Dr., Tulsa, OK 74104-3189. Review of applications will begin 15 October 2011 and continue until the position is filled. We encourage applications from underrepresented groups. The University of Tulsa is an EEO/AA employer.

Ronald M. Bonett, Ph.D. Assistant Professor Department of Biological Science 800 S. Tucker Drive University of Tulsa Tulsa, OK 74104

Email: ron-bonett@utulsa.edu Office: (918) 631-3328 Lab: (918) 631-3327

"Bonett, Ron" <ron-bonett@utulsa.edu>

UUtah EvolutionaryGenetics

The following ad appeared recently in Science, Nature, and elsewhere. Please note that "Genetics" is broadly defined for this search and evolutionary geneticists are strongly encouraged to apply. The departmental website is: http://www.biology.utah.edu The University of Utah Department of Biology seeks to fill a tenure-track position at the level of Assistant Professor in the broad area of Genetics. Candidates must have a strong record of research achievement and the ability to teach Genetics. The successful candidate will be expected to maintain a successful, externally-funded research program. Ph.D. or equivalent is required.

Review of applications will begin December 15, 2011 and continue until the position is filled. Application for this position can be made at http://-utah.peopleadmin.com/postings/9134 The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons with disabilities are strongly encouraged to apply. Veterans preference. Reasonable accommodations provided. For additional information: http://www.regulations.utah.edu/-humanResources/5-106.html . The University of Utah values candidates who have experience working in settings with students from diverse backgrounds, and possess a strong commitment to improving access to higher education for historically underrepresented students.

shapiro@biology.utah.edu

UWesternAustralia FieldAssist LizardEvol

Field assistant for frillneck lizard study in the Kimberley (Western Australia)

An enthusiastic and capable volunteer field assistant is required for a research project on frillneck lizards (Chlamydosaurus kingii) in Wyndham, Western Australia. This project will form part of a PhD study in tropical northern Australia on the evolution of colour in the frill. Fieldwork will involve:

- locating and capturing lizards in order to fit them with radio- transmitters - taking morphometrics and other fitness indicators (e.g. bite force) - tracking radio-collared lizards to determine territory size - conducting behavioural focals on territorial males - assisting with performance experiments on captive lizards at the field station

The fieldwork requires spending 7-8 hrs per day (6 or 7 days/week) working in hot, humid conditions. The study areas are located near a small town, where a field station with basic facilities is located

The position requires commitment to the full field season, which will run from early November 2011 until February 2012. Travel to and from the field site will be covered by the university, as will accommodation for the duration of the field season.

Ideally, applicants should have some field experience, good observational skills, be reliable, and also able to work independently. Previous reptile handling experience would be preferable, but is not essential. This is an excellent opportunity for recent science graduates to gain valuable field experience of in-depth behavioural and evolutionary research.

Applications will be reviewed until the position is filled.

For more information, and to apply, please contact David Hamilton (davidghamilton@hotmail.com). Interested applicants should e-mail a cover letter, CV and the contact information of 2 references to the e-mail address above

David Hamilton <davidghamilton@hotmail.com>

UWesternSydney ClimateAdaptation

Research Fellowship positions (3x 5 years positions) Hawkesbury Institute for the Environment, University of Western Sydney, Australia Microbial Ecology, Ecological Genetics

The Hawkesbury Institute for the Environment at the University of Western Sydney, Australia, is seeking to appoint energetic, highly motivated academics to undertake research aimed at answering crucial questions about impacts of environmental change on terrestrial ecosystems. The positions are targeted towards applicants with expertise in: * Microbial ecology of soils using physiological and/or genomic and transcriptomic approaches (1 position) * Terrestrial ecosystem function using ecological genetics, observational studies and computer modelling (2 positions)

This is an exciting opportunity to undertake research with a talented multidisciplinary team of researchers. We offer comprehensive field and laboratory based facilities including the latest next-generation sequencing platforms and a Free Air C02 Enrichment facility located in native Australian woodland. HIE is located in Richmond, NSW, close to the Greater Blue Mountains World Heritage area and Sydney (www.uws.edu.au/-hawkesburyinstitute).

Position Enquiries: Professor lan Anderson (i.anderson@uws.edu.au) and Professor Peter Reich, (p.reich@uws.edu.au).

How to apply: Go to the web site http://-careers.uws.edu.au/ and search the job references 696/11 or 697/11 (Closing Date: 23 October 2011). Click on the reference number and follow the instructions 'How To Apply'.

Forwarded by Dr Markus Riegler Hawkesbury Institute for the Environment University of Western Sydney email: m.riegler@uws.edu.au

M.Riegler@uws.edu.au

Vienna PopulationGenetics

Tenure-track group leader position available at the Institute of Population Genetics, Vetmeduni Vienna.

The Institute of Population Genetics at the Vetmeduni Vienna is recruiting a group leader (roughly equivalent to an assistant professorship). The research focus of the Institute of Population Genetics is on understanding the genetics of adaptation. This central question in evolutionary biology is being tackled using up-to-date methods and a variety of approaches, including experimental evolution, quantitative genetics, examination of life history traits, Evo-Devo, empirical population genetics, bioinformatics and statistics. While the workhorse organism in the institute is Drosophila, (we host one of the largest collections of natural D. melanogaster populations), research at the institute also includes Arabidopsis, camels, cheetahs and lemurs.

The position holder is expected to develop and maintain an independent research group, and to attract extramural funding. Additional funding for Ph.D. students is available through the Vienna School of Population Genetics (http://www.popgen-vienna.at), which attracts an international body of graduate students.

The successful candidate will have a record of high quality research in functional Drosophila genetics, preferably with a proven ability to attract extramural funding. While the specific research area of the candidate is open, applicants interested in understanding functional variation in natural populations and closely related species are particularly encouraged to apply. The future post holder will also have access to an excellent core facility, including an Illumina sequencer, and well-equipped laboratory and fly work facilities, including state-of-the-art imaging equipment.

In recent years, Vienna has developed into one of the leading centers in evolutionary biology (http://-/www.evolvienna.at). In addition, Vienna is home to the VDRC Stock Center, and a high-profile Drosophila research community, most notably at the IMP (http://www.imp.ac.at/) and the IMBA (http://-/www.imba.oeaw.ac.at/). In addition to a stimulating scientific environment, Vienna also offers an extraordinarily high quality of life. Affordable housing, excellent public transport, great restaurants, a range of international schools, two operas, two music centers, many theaters and museums in combination with a pleasant climate make Vienna one of the most attractive cities in Europe.

The position is available from the beginning of 2012. The application should be emailed to christian.schloetterer@vetmeduni.ac.at as a single pdf containing CV, list of publications, a statement of research interests, and the names of three references with contact details. While the search will continue until the position is filled, applications should be received by October 15, 2011 to ensure full consideration.

Christian Schlötterer Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien Austria/Europe

phone: +43-1-25077-4300 fax: +43-1-25077-4390 http://i122server.vu-wien.ac.at/pop Vienna Graduate School of Population Genetics http://www.popgen-vienna.at schlotc@gmail.com

WhitmanCollege EvoDevo

The Biology Department at Whitman College invites applications for a new tenure track position in biology at the rank of assistant professor, with expertise in *evolutionary developmental biology*, effective August 2012 (pending final authorization). Ph.D. required and post-doctoral work preferred. The successful candidate will participate in our team-taught genetics course, teach majors' courses in evo-devo and other areas of expertise, and supervise senior research and theses. The successful candidate will also develop a vibrant research program involving students. Candidates with research interests that complement and expand on existing areas of faculty expertise and who can interact with other departments on campus are especially encouraged to apply. Whitman College wishes to reinforce its commitment to enhance diversity, broadly defined, recognizing that to provide a diverse learning environment is to prepare students for personal and professional success in an increasingly multicultural and global society. In their application, candidates should address their interest in working as teachers and scholars with undergraduates in a liberal arts environment that emphasizes close student-faculty interaction; how their cultural, experiential, and/or academic background contributes to diversity; and their interest in participating in the College's general education offerings as well as engaging in cross-disciplinary teaching and scholarship. To apply, go to https://-whitmanhr.simplehire.com/, click "Faculty" and "Assistant Professor of Biology." The online position description includes specific instructions on submission of the following materials: letter of application; curriculum vitae; three letters of reference; statements addressing the candidate's teaching interests and schol-

arly agenda; undergraduate and graduate transcripts; teaching evaluations or other evidence of demonstrated or potential excellence in undergraduate instruction. Deadline: October 20, 2011. No applicant shall be discriminated against on the basis of race, color, sex, gender, religion, age, marital status, national origin, disability, veteran's status, sexual orientation, gender identity, or any other basis prohibited by applicable federal, state, or local law. Whitman College is a small, selective liberal arts college dedicated to providing excellent educational opportunities for students. The College provides generous professional development support for both research and teaching. For additional information about Whitman College and the Walla Walla area, see www.whitman.edu and www.wallawalla.org.

Delbert Hutchison <hutchidw@whitman.edu>

YeshivaU ComputationalBiol

Albert Einstein College of Medicine at Yeshiva University Tenure Track Position in the Department of Systems and Computational Biology

The Albert Einstein College of Medicine, one of the leading medical schools in New York City, is seeking to fill multiple tenure track faculty positions in the newly formed Department of Systems and Computational Biology. Established in April 2008, the main goal of the new department is to advance our understanding of living systems by developing theoretical, computational and experimental approaches to study complex biological systems.

The College has 750 medical students, 325 graduate students and 360 post-doctoral fellows in training and boasts a strong research faculty covering broad areas of experimental biology, offering outstanding opportunities for collaborative interactions. The 200,000 square foot Center for Genetic and Translational Medicine at Einstein, which opened in late 2007, locates computational, systems and experimental scientists in physical proximity to foster interdisciplinary communication and collaboration. Highly competitive start-up packages are available. We seek outstanding scientists with broad experience and demonstrated collaborative interactions with experimental or clinical investigators. Candidates should have strength in a physical, mathematical or computational field at the Ph.D. or equivalent level. Experience applying these skills to a biological or biomedical area (demonstrated through publications or support) is also required. Areas of interest include, but are not limited to: Modeling cellular processes, such as signaling, transcriptional regulation and immune response; Pathway analysis; Genetic networks; Functional proteomics and genomics; Evolution of structure and function; Computational neuroscience; Mathematical and computational modeling of complex traits and diseases; QM and dynamic approaches to enzymatic catalysis and drug design.

Applicants should send a letter of interest, C.V., statement of research and teaching interests, and names of three referees, in electronic format to:

Systems and Computational Biology Search Committee Albert Einstein College of Medicine Jack and Pearl Resnick Campus 1300 Morris Park Ave. Price Center, Rm. 153 Bronx, New York 10461 E-mail Address: sysbio@einstein.yu.edu

Subject line should be: SCB Faculty Search

Yeshiva University is an equal opportunity employer committed to workforce diversity.

Human Resources <mmcder2010@hotmail.com>

Other

ABI 3130xl

Dear EvolDir

I am experiencing some problems with an ABI 3130xl sequencer. When running a spectral calibration I get an error code: failed spectral calibration, "no" candidate spectral files found. I looked at the possible causes and made changes but still I get the same error code. I am suspecting this has something to do that the spatial calibration does not get saved. When I go into run history: Spatial Calibration Viewer, none of my recent spatials are saved there (although they passed). Anyone had a similar experience?

Thankful for any help or suggestions!

Cheers

Jeanette

wodans12@yahoo.se

AmerSocNaturalists survey

Dear Members,

The American Society of Naturalists (ASN) typically holds a joint conference each year (the "Evolution Meeting") with the Society for the Study of Evolution (SSE) and Society of Systematic Biologists (SSB). Starting in 2014, we plan to begin biennial independent meetings of the American Society of Naturalists, to bring together a broader spectrum of biologists, including ecologists and animal behaviorists who might not typically attend the Evolution meeting. The purpose of these meetings will be to foster interdisciplinary interactions among biologists who share ASN's goals: " to advance and to diffuse knowledge of organic evolution and other broad biological principles so as to enhance the conceptual unification of the biological sciences."

To help us plan the best possible meeting, I am writing to ask you to take just a couple of minutes to fill out a brief survey. This will help us evaluate the level of interest in this meeting, choose the optimal time, and gather ideas for themes and formats that might help interdisciplinary conversations and communication between students, postdocs, and faculty at all levels.

The survey can be found at: http://-www.surveymonkey.com/s/YNCHZ9V Please also forward this message to any students or colleagues who might be interested.

Thank you,

Dan Bolnick, Secretary, American Society of Naturalists Section of Integrative Biology One University Station C0930 University of Texas at Austin Austin, TX 78712

512-471-2824 fax 512-471-3878 danbolnick@mail.utexas.edu https://webspace.utexas.edu/-dib73/TheBolnickLab/Home.html Dan Bolnick <danbolnick@mail.utexas.edu>

Anderson article SexualSelection

Dear friends,

I would like to use this article in my evolution course but I dont have acesse to this journal here:

Anderson, M. (1982). Female choice selects for extreme tail length in a widowbird. Nature (Lond.) 299: 818±820.

If anyone have access could please send me a PDF copy?

Thanks!!!

Voltolini

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

jcvoltol@uol.com.br

ASN Award and Nomination Deadlines

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

Nominations for 2012 Sewall Wright Award The Sewall Wright Award is given annually and honors a senior but active investigator who is making fundamental contributions to the Societys goals, namely promoting the conceptual unification of the biological sciences. The award includes an honorarium of $1,000. The recipient need not be a member of the Society. For the 2012 Sewall Wright Award, the nomination packet, which must include a letter of nomination and a curriculum vitae including a publication list, should be sent by December 1, 2011, to asn@press.uchicago.edu. Please indicate Wright Award in the subject line.

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

Applications for 2012 Jasper Loftus-Hills Young Investigators Award The Jasper J. Loftus-Hills Young Investigators Award was established in 1984 to recognize promising, outstanding work by investigators who received their doctorates in the three years preceding the application deadline or who are in their final year of graduate school. Jasper Loftus-Hills (1946V1974) was an Australian biologist of exceptional promise, who had published 16 articles in the three years after receiving his degree. He was killed by a hit-and-run driver while tape recording frog calls along a Texas highway. The recipient need not be a member of the Society. The award includes presentation of a research paper at the annual meeting of the ASN, an award of $500, a travel allowance of $700, and a supplement of $500 in case of international travel. The prize committee requests applications for the 2012 award from anyone supporting the objectives of the Society. Suggested names and addresses of people who should be encouraged to apply are also welcome. Applications should consist of no more than three pages (excluding tables, figures,

and references) that summarize the applicants work, no more than four appropriate reprints, a curriculum vitae, and two letters from individuals familiar with the applicants work. Application materials should be sent via e-mail by December 1, 2011, to asn@press.uchicago.edu. Please indicate Investigators Prize in the subject line.

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

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

Australia VolFieldAssist AvianSexualSel

VOLUNTEER FIELD ASSISTANT OPPORTUNITY, sexual selection and reproductive biology of Australian birds.

We are looking for a volunteer field assistant to help with a study of the reproductive biology of passerine birds in Australia from November 12 through to mid/late-December. This is a great opportunity for someone who wants to gain further field experience in preparation for a Masters or PhD program in evolution, ecology or behaviour. Work will be conducted at multiple sites throughout Australia (New South Wales, South Australia, Western Australia and Queensland), thus the position will involve a large amount of traveling by air and car. Primary duties will include observation and passive and target netting of birds, collection of blood and other tissue samples and data entry. Volunteers are also expected to help with driving (thus a drivers license is required), maintenance of equipment and general logistics (cooking, cleaning, etc). Previous experience mist netting and bleeding is preferred, but highly motivated individuals lacking experience will also be considered. Study sites are remote, fitted with only basic facilities and poisonous snakes, ticks and spiders are common. Thus volunteers must be able to work under harsh conditions V high temperatures, hiking off-trail in a variety of habitats, etc V and live and work with a small group (group size varies from 2 to a dozen) throughout the period. Moreover, working days will be long, often beginning at or before dawn and continuing until dusk. Throughout the project there will be fantastic wildlife viewing opportunities (kangaroos, wallabies, parrots, wombats, etc) and our final site is in close proximity to the Great Barrier Reef and the Queensland rainforest. Food, housing and domestic travel will be provided. However, assistants will have to provide their own airfare to and from Australia (beginning in Sydney). To apply, please send a cover letter detailing interests and previous experience, your CV, and the contact details of three references to Dr. Melissah Rowe (email: melissah.rowe(at)nhm.uio.no: (at) replaces @ to dodge spammers). Review of applicants will begin immediately until the position is filled.

melissah rowe <m.m.rowe@nhm.uio.no>

Coding BEAST discontinuous partitions

Hello BEAST users

I need to create partitions that are composed of discontinuous sequence and import it into BEAUTi to make an .xml file for BEAST.

Example: charset chr1 = 3060-3709 6780-7084 7085-7388 10321-10644; charset chr3 = 8831-9573; charset unknown = 2043-2578 5441-5806; etc

BEAUTi appears to read only the first segment. If I separate with comas it can't parse it. Does anyone know whether BEAUti can read discontinuous partitions and if yes, how to code it? Many thanks for suggestions

Heidi Schwaninger

"Schwaninger, Heidi" <Heidi.Schwaninger@ARS.USDA.GOV>

diArk2 0 database

Dear colleague!

DiArk 2.0 is online at www.diark.org! DiArk has been developed for researches working in any field related to eukaryotic genomics. It provides the most comprehensive and complete compilation of eukaryotic genome and EST sequencing projects worldwide.

Please look at our recent open access publication for more details about the updates included in v. 2.0:

http://www.biomedcentral.com/1756-0500/4/338 The statistics shown in the publication are computed on-the-fly (thus might change every database update), and the current version is always available via www.diark.org => Search database (menu item) => Sequencing stats (result tab).

The current content (19th September 2011) includes: Species: 915 Projects: 2134 genomic DNA projects: 732 Publications: 490 genome files: 2445 files analysed, 1125 GB of fasta files for download

We would be happy if diArk would be useful for your research, and we welcome any suggestions and comments.

With best wishes,

Your diArk-Team (Bjoern Hammesfahr and Martin Kollmar)

Mkollgr MBPC <mkollgr@gwdg.de>

Early career award

Canadian Society of Ecology and Evolution EARLY CAREER AWARD

Award Description: The CSEE Early Career Awards recognize outstanding accomplishments and promising future research potential in ecology and evolution by scientists early in their career. Awards will be given to two candidates every 2 years. They consist of a 10-year membership to CSEE/SCEE, $500 cash award, travel support to the annual meeting of CSEE/SCEE and an invitation to give a keynote lecture.

Eligibility: Applicants must have received their doctorate in the five years preceding the application deadline and must be active researchers in the field of ecology and evolutionary biology. Candidates need to be Canadian citizens, or landed immigrants, or have completed their PhD at a Canadian University, or be currently working at a Canadian University.

Application / Nomination Procedures: Candidates may apply directly or may be nominated. Established researchers are encouraged to nominate outstanding young scientists. Nominations must contain all of the following supporting materials: (1) a curriculum vitae, (2) a summary of research accomplishments (maximum 2 pages), (3) a 2-page statement of research plans for the next 5 years, (4) three recent publications, (5) names and addresses of 3 referees (including the nominating scientist where applicable) who will provide supporting letters. The 3 letters of reference should be sent separately from the candidate's nomination package. All nomination materials and reference letters must be sent as PDF e-mail attachments.

Time lines: The deadline for receipt of all materials for the inaugural Early Career Awards including letters of reference is 15 November 2011 (Candidates must have received their PhD degree on or after 15 November 2006; time since PhD degree can be extended by 1 yr for each child if the applicant was the primary care giver and took official parental leave). Subsequent deadlines will be on the same date in odd-numbered years. Materials for the 2011 competition must be sent to the CSEE/SCEE Chair of the Awards & Recognition Committee, Steve Heard sheard@unb.ca

The recipients will be notified of the award in mid-January 2012 and they will receive their award at the following annual meeting.

Steve Heard CSEE council member

Société canadienne d'écologie et d'évolution PRIX DE DÉBUT DE CARRIÈRE

Description du prix : le Prix de début de carrière de la SCEE souligne les réalisations exceptionnelles et le fort potentiel de recherche de scientifiques amorçant leur carrière en écologie ou en évolution. Ce prix sera remis à deux personnes tous les deux ans. Il inclut une inscription de 10 ans à la SCEE, une bourse de 500 $, les frais de déplacement pour la participation au congrès annuel de la SCEE ainsi que l'invitation à y tenir une conférence d'honneur.

Admissibilité : les personnes candidates doivent avoir obtenu leur diplôme de doctorat au cours des cinq années précédant la date limite du concours. Elles doivent également oeuvrer activement en recherche

dans les domaines de l'écologie ou de l'évolution. Enfin, les personnes candidates doivent posséder la citoyenneté canadienne ou la résidence permanente, ou avoir effectué leurs études doctorales dans une université canadienne, ou, encore, travailler dans une université canadienne au moment de la candidature.

Procédures de candidature et de nomination : les candidatures peuvent être soumises par les personnes admissibles elles-mêmes ou par un pair. À ce sujet, les chercheurs et chercheuses d'expérience sont invités à proposer la candidature de jeunes scientifiques d'exception. Les dossiers de candidature doivent contenir tous les éléments suivants : 1) un curriculum vitæ, 2) un résumé des réalisations en recherche (deux pages au maximum), 3) un énoncé de deux pages présentant la planification des recherches pour les cinq années à venir, 4) trois publications récentes, 5) les noms et adresses de trois personnes références (incluant, le cas échéant, la ou le proposeur) qui fourniront une lettre de recommandation. Les trois lettres de recommandation devront être envoyées séparément au dossier de candidature. Tous les documents doivent être acheminés sous forme de fichiers PDF joints à un courriel.

Échéancier : la date limite de réception des dossiers de candidatures, incluant l'ensemble des documents, dont les lettres de recommandation, pour le tout premier Prix de début de carrière de la SCEE est le 15 novembre 2011 - les personnes candidates doivent donc avoir obtenu leur doctorat au plus tôt le 15 novembre 2006. Le temps écoulé depuis l'obtention du doctorat peut être prolongé d'une année pour chaque enfant de la personne candidate si celle-ci était la principale pourvoyeuse de soins pour l'enfant et a reçu une prestation de congé parental. Les

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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

Eden research funding opportunity

Dear Colleague:

Please note the upcoming deadline for research exchange grants from the Evo-Devo-Eco Network (EDEN) is October 31, 2011. EDEN is a program funded by the National Science Foundation Research Coordination (http://edenrcn.com/).

One of EDENs 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.

This fall EDEN will award five research exchanges to be held in 2012. Each exchange will consist of an award of up to $3,000 per researcher toward travel, lodging and subsistence costs. Applicants must be based at a US institution, may be of any nationality, and may apply for an exchange anywhere in the world. 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.

If you have not done so already, please consider "joining" EDEN by filling out a brief survey about your lab's areas of expertise. You can complete the survey on our website athttp://edenrcn.com/join/ or by clicking

http://www.surveymonkey.com/s/JoinEDEN This survey will allow your lab to be added to a searchable database of scientists, organisms and techniques that is available on the EDEN website (http://edenrcn.com/-participating/). With this database, other researchers in development, evolution and ecology will be able to learn about your work, hopefully facilitating new and useful networks and collaborations.

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.

"Grants, EDEN" <edenrcn@fas.harvard.edu>

ESEB OutreachFund

ESEB Outreach Fund - Next Deadline September 15, 2011

The European Society for Evolutionary Biology (ESEB) is pleased to announce a new Outreach Fund available globally to promote evolution-related activities, with a total annual budget of 15000 Euro. The goal of this initiative is to promote knowledge about evolution to general public.

Applications for funding will be accepted for educational initiatives that promote evolution, translation 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 Assistant ESEB office Email: office@eseb.org

European Society for Evolutionary Biology www.eseb.org office@eseb.org

ESEB Symposia InfluentialSymbionts

Dear Evoldir community.

We are organizing a symposium at the First Joint Congress on Evolutionary Biology. This will be an ESEB Symposia.

Our topic is Influential Symbionts: Master manipulators of adaptive host behavior. While we can all agree that dramatic examples of behavioral manipulation such as ants infected by fungi or rats infected by Toxoplasma are obviously hostile takeovers what is the role of the unseen symbionts (mutualists, commensals & parasites) on host behavior? We are interested in exploring everything from mobile DNA to the microbiome and from parasites to mutualists. We expect that in the coming years the way in which behavior is viewed will change and increasing examples of it being a product of two or more genomes will be surface. Since we expect that some of this research is currently nascent we want to have a general call for our symposium. If you are interested in attending please apply. Depending on what comes up this could lead to an invited, 30 minute presentation to you.

Please express your interest before the 30th September. David Hughes <dhughes@psu.edu> or Wolfgang Miller <wolfmanmiller@yahoo.com>

best wishes

David Hughes & Wolfgang Miller

Center for Infectious Disease Dynamics Penn State University http://www.cidd.psu.edu/people/dph14 dhughes@psu.edu

David Hughes <dph14@psu.edu>

Evolution Meetings Survey

Dear Evol-Dir Members,

Have you attended the US Evolution meetings in the past? Do you plan to attend them in the future? If so, we'd like to get your input regarding childcare and MentorNet mentoring programs offered at the conference.

With funding from an Elsevier Foundation New Scholars Grant, on-site childcare and email-based MentorNet mentoring programs were offered for the first time at the Evolution 2009 conference in Moscow, ID, were also recently offered at Evolution 2010 (Portland, OR) and Evolution 2011 (Norman, OK).

The survey will take about 5 minutes, and your responses are completely anonymous. Please click on the link below (or copy and paste into your internet browser) to complete the survey.

https://www.surveymonkey.com/s/3LQW6WM < https://www.surveymonkey.com/s/3LQW6WM >

Thanks for taking the time to help out!

Heidi Meudt & Leah Larkin

Heidi Meudt, PhD Museum of New Zealand Te Papa Tongarewa, PO Box 467, Cable St, Wellington 6140, New Zealand, P +64 4 381 7127, F +64 4 381 7070

School of Biological Sciences, Victoria University, 1-85 Kelburn Parade, Room 507, New Kirk Building, Wellington 6140, New Zealand, P +64 4 463 7450, F +64 4 463 5331

NZPRN wiki < http://nzprn.otago.ac.nz/wiki/bin/-view/NZPRN/WebHome > - VUW Webpage < http:/-/www.victoria.ac.nz/sbs/staff/heidi-meudt.aspx >

Heidi Meudt <HeidiM@tepapa.govt.nz>

Insect trascriptome data

Dear all,

I am a PhD student at the University of Miami. I

am looking for insect transcriptomic data sets with decently high coverage (the higher coverage the better) to mine for the transporter genes I am working on for my dissertation. The taxa I am interested in are insect orders in the hemipteroid assemblage and outgroups. Specifically:

Hemiptera (both Homoptera and Heteroptera) Tysanoptera (thrips) Psocoptera (bark lice) Phthiraptera (true lice) Any Polyneoptera (grasshoppers, crickets, etc.)

There are limited publicly available data sets for these taxa, so if anyone has an as yet unpublished data set that they wouldn't mind me taking a look at please e-mail (rduncan@bio.miami.edu). Also, please feel free to contact me with any questions you may have.

Best wishes,

Rebecca

Rebecca P. Duncan Graduate student Department of Biology University of Miami 1301 Memorial Dr, Room 253 Coral Gables, FL 33124

Wilson Lab< http://www.bio.miami.edu/acwilson/-WilsonLab_Web/WilsonLab/Welcome.html > Lab: 305-284-2003

Rebecca Duncan <rduncan@bio.miami.edu>

LinkageDisequil MultipleLoci

Title: Linkage disequilibrium estimates at multiple loci

Dear colleagues,

I would like to estimate linkage disequilibrium between alleles, in a system in which there are up to 8 diploid loci, unknown phase, and copy number variation. Does anyone know of any software which is able to do this? Any tips or pointers would be greatly appreciated.

Best,

Jackie Lighten, Ph.D. Candidate, Bentzen Lab, Room 6078, Department of Biology, Dalhousie University, Halifax, NS, B3H 4J1 Canada

Office:(902) 494-1398 Email: Jackie.Lighten@Dal.Ca

http://pblabs.biology.dal.ca/-www.marinebiodiversity.ca/CHONe/Members/-lightenj/profile/bio[2] Jackie Lighten <jc807177@dal.ca>

MacquarieU VolFieldAssist LizardEvolution

Field assistant for frillneck lizard study in the Kimberley (WA)

An enthusiastic and capable volunteer field assistant is required for a research project on frillneck lizards (Chlamydosaurus kingii) in Wyndham, Western Australia. This project will form part of a PhD study in tropical northern Australia on the evolution of colour in the frill. Fieldwork will involve:

- locating and capturing lizards in order to fit them with radio- transmitters - taking morphometrics and other fitness indicators (e.g. bite force) - tracking radio-collared lizards to determine territory size - conducting behavioural focals on territorial males - assisting with performance experiments on captive lizards at the field station

The fieldwork requires spending 7-8 hrs per day (6 or 7 days/week) working in hot, humid conditions. The study areas are located near a small town, where a field station with basic facilities is located

The position requires commitment to the full field season, which will run from late October/early November 2011 until February 2012. Travel to and from the field site will be covered by the university, as will accommodation for the duration of the field season.

Ideally, applicants should have some field experience, good observational skills, be reliable, and also able to work independently. Previous reptile handling experience would be preferable, but is not essential. This is an excellent opportunity for recent science graduates to gain valuable field experience of in-depth behavioural and evolutionary research.

Application deadline: 1st October 2011

For more information, and to apply, please contact David Hamilton (davidghamilton@hotmail.com), PhD candidate, Department of Brain, Behaviour and Evolution, Macquarie University. Interested applicants should e-mail a cover letter, CV and the contact information of 2 references to the e-mail address above.

David Hamilton <davidghamilton@hotmail.com>

Microsatellite duplication

Dear evoldir members,

We are amplifying nuclear microsatellites in a diploid plant species. We are working with eight loci. Seven of them works normally, but one the loci shows a duplication of the amplified product. That is, we found two groups of fragments of differents size that are amplified simultaneous and with the same genotype profile. For instance, when a individual is homocigote for one of these regions (e.j. genotype 119:119 bp) is homocygote for the other (genotype: 151:151 bp), while a heterocygote individual for one region (ej. 119:124) is heterocygote for the other region (151:157). On the other hand, we always found a higher intensity signal in the bigger fragments region (150pb). Is this a duplication of the microsatellite sequence in the genome of the species?, Could this profile be a artefact of the technique?. We have found this duplication with two different DNA sequencer (ABI3100 and ABI3730XL).

Thank in advance,

Miguel Angel

Miguel Angel González Pérez Investigador Doctor en Proyecto Departamento de Biología Universidad de Las Palmas de Gran Canaria 35017 Las Palmas Islas Canarias Spain

t +34 928 454 543 p +34 928 452 922

canariensis750@hotmail.com

Microsatellite services answers

Dear All,

A few weeks ago I asked for suggestions/experiences with companies that construct microsatellite libraries. I have collated all the replies (thank you to everyone who got in touch) and appended these below.

Many thanks again, Sophie (svdh@sun.ac.za)

—

You could try GIS in the US (http://www.genetic-id-services.com/library.htm). They've done a couple of libraries for us and we've always been happy with the output.

—

Savannah River Ecology Lab does microsat library development: http://srel.edu/microsat/-Microsat_DNA_Development.html I had them develop primers for my thesis and got good results.

—

I have been developing msats for 6 species. I found a company in France (lille) that promises 100 bioinfomatic loci! for approx $2500! They get their micros by enrichment and and 545 sequencing. You only have to send 1 ug of mixed DNA (8 or more specimens). I have had no results yet, but at least what they promise sound good and cheap. details:

Genoscreen 1, rue du Professeur Calmette 59000 - Lille - France Tel +33 (0) 320 877 153 - Fax +33 (0) 320 877 264 www.genoscreen.com http://twitter.com/-Genoscreen - http://facebook.com/Genoscreen

—

SREL does really nice work at low expense. I used to work as a tech there.

http://www.srel.edu/microsat/-Microsat_DNA_Development.html —

I'd suggest you don't get a library at all.

It will be (much) cheaper, probably quicker and certainly better (more different repeat types, more loci) to get a modest amount of next-gen sequencing done.

I don't know if he is still doing this, but Michael Gardner <michael.gardner@flinders.edu.au> has been organizing multiple people to share the same next-gen run, and then putting the sequences through the relevant software.

He has a recent paper (Mol Ecol Resources) explaining it all.

Typical outcome for a vertebrate is several hundred candidate loci (with primer design) for a few thousand dollars.

My particular species was very tricky, and the outcomes were better than multiple attempts at old fashioned libraries, even given we have a lot of experience with the old way.

—

We have had several microsatellite libraries constructed by Genetic Identification Services (GIS) and were very pleased with the libraries and the service. We are doing much of our work now with single nucleotide polymor-

phisms so I haven't dealt with them for several years. We only have experience with GIS so I cannot tell you how they compare with other similar services.

—

Check out Egogenics in Switzerland: http://-www.ecogenics.ch/ A bit expensive, but reliable.

—

Have you thought about skipping the library business and doing a portion of a next gen sequencing run instead? I've made several libraries but never would again as it's more expensive and takes a heap longer than a next gen seq run. The trick is to find others who are doing it so you can all share part of a lane to save money. I expect there are several folk who are organising such things but I know for sure that Steve Donnellan at the South Australian Museum (and Uni of Adelaide) is coordinating this. I think the cost is somewhere in the vicinity of A$2000. Good luck.

—

We had very good results with GenoScreen

—

We have had several microsatellite libraries constructed by Genetic Identification Services (GIS: http://-www.genetic-id-services.com) and were very pleased with the libraries and the service. We are doing much of our work now with single nucleotide polymorphisms so I haven't dealt with them for several years. We only have experience with GIS so I cannot tell you how they compare with other similar services.

—

Genetic Marker Services develop microsatellites using library enrichment.

www.geneticmarkerservices.com Email them your microsatellite development query via their website, or direct at enquiries@geneticmarkerservices.com

—

"Von der Heyden, S, Dr <svdh@sun.ac.za>" <svdh@sun.ac.za>

Microsat NGS answers

Dear all, here are the relevant answers I received concerning my question on amplicon sequencing of microsats. The first paper provides actual data on the next-gen sequencing of microsats. Thank you for all responses.

Koen

>Hello,

I dont have direct experience with this, but i have one idea. You mention "how many X coverage do you need to know the 'correct' allele sizes". This is going to be related to how specific the pcr is, i.e. how much slippage goes on. Well if you run these microsats as 'true' microsats on an abi3730 (or whatever) how much of a stutter peak is there? if these almost no stutter then youd expect the 454 results to give predominantly 2 allele sizes. if theres a lot of stutter then not so much. the other consideration is that if the alleles differ in size by one repeat length (eg alleles sizes 250/252 in a dimer microsat then stutter of one allele can easily give the second allele, but if they differ in several repeats (250/260 in a dimer) then this wont happen

Though with 454 it seems like getting microsat data is not the most effective use of your cash (what about RAD tags? eg http://www.plosgenetics.org/article/-info:doi/10.1371/journal.pgen.1000862)!

thats my 2 cents :)

>Paper:

High-throughput sequencing of core STR loci for forensic

genetic investigations using the Roche Genome Sequencer

FLX platform [Q1]

Sarah L. Fordyce1,*, Maria C. Ávila-Arcos1,*, Eszter Rockenbauer2, Claus Børsting2, Rune Frank-Hansen2,

Frederik Torp Petersen2, Eske Willerslev1, Anders J. Hansen2, Niels Morling2, and M. Thomas. P. Gilbert1

1

Centre for GeoGenetics, Natural History Museum of Denmark, Copenhagen, Denmark, and 2Section of Forensic

Genetics, Department of Forensic Medicine, Faculty of Health Sciences, University of Copenhagen, Copenhagen,

Denmark

BioTechniques 51:XXX-XXX (August 2011) doi 10.2144/000113721

Keywords: Short tandem repeat (STR); high-throughput; sequencing; GS FLX

Supplementary material for this article is available at

www.BioTechniques.com/article/113721 . >Paper:

Profiling the Dead: Generating Microsatellite Data from

Fossil Bones of Extinct Megafauna-Protocols, Problems,

and Prospects

Morten E. Allentoft1,2*, Charlotte Oskam1, Jayne Houston1, Marie L. Hale2, M. Thomas P. Gilbert3, Morten

Rasmussen3, Peter Spencer4, Christopher Jacomb5, Eske Willerslev3, Richard N. Holdaway2,6, Michael

Bunce1*

1 Ancient DNA Laboratory, School of Biological Sciences and Biotechnology, Murdoch University, Perth, Western Australia, Australia, 2 School of Biological Sciences,

University of Canterbury, Christchurch, New Zealand, 3 Centre for GeoGenetics, Natural History Museum of Denmark, Copenhagen, Denmark, 4 Wildlife Identification

Laboratory, School of Biological Sciences and Biotechnology, Murdoch University, Perth, Western Australia, Australia, 5 Southern Pacific Archaeological Research,

Department of Anthropology, University of Otago, Dunedin, New Zealand, 6 Palaecol Research Ltd, Christchurch, New Zealand

PlosOne 2011 vol6

kdegelas@gmail.com

MountainLake EvolutionCourseProposals

Mountain Lake Biological Station invites proposals for new summer courses to be taught during the summer 2012 season and beyond. MLBS typically offers 3- and 4-week courses in a variety of topics in field and organismal biology, ecology, evolution, behavior, and environmental sciences. Courses are typically small enrollment, field intensive offerings that include a research component. Suggestions for new topics and approaches are welcomed.

Interested parties are asked to prepare a short (1-2 pp) course proposal outlining the topic and approach to the course. Inquiries about logistics or further information are welcome. Recent PhDs, and those expecting a degree by June 2012 are welcome. More information about the station and past courses is available at www.MLBS.org. Please send proposals along with a CV and direct questions to: Butch Brodie, Director, Mountain Lake Biological Station at bbrodie@virginia.edu.

edb9j@virginia.edu

NESCent Hackathon member

Dear colleague–

Hackathons, Interoperability, Phylogenetics (HIP), a NESCent working group [1], envisions a future virtual phyloinformatics bazaar in which comparative data and phylogenies are archived, shared, annotated, re- used, aggregated, marked up, mashed up, and linked in. In pursuit of this vision, the working group is staging a series of hackathons (i.e., intensive participant-driven hands-on development meetings) that empower early-career scientists to help build and take advantage of an emerging network of interoperable evolutionary resources [1].

The HIP leadership team [2], which is responsible for planning and implementing the hackathons, is seeking an additional member to share in our vision. We are particularly interested in a scientist with experience in applying phylogenetic approaches in ecology (broadly defined), ideally with some kind of emphasis on data integration, aggregation, or other kinds of data reuse. Leadership team members need not be programmers, but they must be interested in promoting the development and application of software tools and interoperability standards, and they are expected to bring to the table knowledge of software-related challenges (and possibly resources) relevant to using phylogenies and comparative data for ecological research questions.

HIP leadership team members are expected to attend a face-to-face leadership meeting in December 2011 or January 2012, monthly teleconferences, and 3 hackathons over the next 2 years; they should allow additional time to prepare for meetings and to follow ongoing hackathon projects. Hackathons thrive on a balanced mix of participant expertise and roles: leadership team members will be part of the mix, but may serve in roles other than software developer, such as documentation coordinator, use-case researcher, code tester, etc. (If you are interested only in being part of

a hackathon, watch for future calls for participation in this venue).

Over the 2-year period of the project, the HIP leadership team will steer the focus areas, participant mix, and tangible products for the working group hackathons. The team members can expect enjoyable, rich, and productive interactions with a growing and energetic community of evolutionary scientists interested in issues of interoperability, data sharing, standards, and cyberinfrastructure. This is a unique opportunity to make a contribution towards advancing the state-of-the- art and the state-of-the-practice in interoperability and evolutionary biology.

To apply, fill out a short online application form at http://bit.ly/qmqfXi by September 12th, 2011. We encourage you to resolve any questions you have about the group's mission, the hackathon model, or the specific role you might play, by contacting one of the project's PIs listed below. The current Leadership Team [2] will sort through the applications and reach a decision within one week.

Feel free to re-send this message as needed. Thanks! On behalf of the HIP leadership team,

Rutger Vos (rutgeraldo@gmail.com), University of Reading Arlin Stoltzfus (arlin@umd.edu), University of Maryland / NIST Enrico Pontelli (epontell@cs.nmsu.edu), New Mexico State University

[1] http://evoio.org/wiki/-EvoIO_Working_Group_Proposal
[2] http://evoio.org/wiki/-EvoIO_Working_Group_Proposal#Leadership_Team
arlin@umd.edu

Noninvasive DNA extraction

Hi Everyone,

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

Thanks a lot!

Cheers to the community, Orsi

Horvth Orsolya <horsolya@gmail.com>

Original source of origin-fixation model

What is the original source of the origin-fixation model?

Dear colleagues–

Evolutionary models based explicitly on origin-fixation dynamics – including the mutational landscape model of adaptation, as well as a variety of other models from population genetics and phylogenetics – treat evolution as a series of events whose dynamics are characterized by multiplying a rate of origin (e.g., 2Nu for diploids) with a probability of fixation (e.g., 1/2N for the neutral case; 2s for beneficial mutations), leading (in the simplest case) to familiar formulas of k u for random fixation of neutral mutations, and k 4Nus for selective fixation of beneficial mutations.

The origins of this model of evolution are not widely known. Some recent authors attribute it to Gillespie, Sella & Hirsh, or others. However, a generalized origin-fixation formalism is presented in Eqn 5 of Kimura & Ohta, 1971 (JME 1:1-17). Interestingly, the beneficial version (Eqn 7) and the neutral version (Eqn 9) were invoked earlier, in 1968 to 1971, in works (listed below) by Kimura, Ohta, Maruyama, King, Jukes, Zuckerkandl and Vogel.

Was the origin-fixation model used prior to the molecular revolution? We have not seen any deliberate analysis of the source of the origin-fixation model, though a reading of Crow (1987) suggests that it originated with Kimura.

If you know of an earlier source for this formalism, we would appreciate hearing about it. Of course, formulas for the probability of fixation date back to the work of Fisher, Haldane and Wright in the 1920s and 30s, but writing down the fixation probability of a new mutant is not the same as modeling evolution as a series of

fixation events. Our interest is specifically in whether a theoretical model of origin-fixation dynamics was invoked prior to the period of 1968 to 1971.

Thanks,

David McCandlish <david.mccandlish@duke.edu> Arlin Stoltzfus <arlin@umd.edu>

Crow, J. F. (1987). "Twenty-five years ago in Genetics: Motoo Kimura and Molecular Evolution." Genetics 116(2): 183-4.

Kimura, M. (1968). "Evolutionary Rate at the Molecular Level." Nature 217(February 17): 624-626.

Kimura, M. and T. Maruyama (1969) The substitutional load in a finite population. Heredity 24: 101-114.

Kimura, M. and T. Ohta (1969) The number of heterozygous nucleotide sites maintained in a finite population due to steady flux of mutations. Genetics 61: 893 - 903.

Kimura, M. and T. Ohta (1971). "On the Rate of Molecular Evolution." J Mol Evol 1(1): 1-17.

King, J. L. and T. H. Jukes (1969). "Non-Darwinian Evolution." Science 164: 788-797.

Vogel, H. and E. Zuckerkandl (1971). Randomness and "Thermodynamics" of Molecular Evolution. Biochemical Evolution and the Origin of Life. E. Schoffeniels, North-Holland.

david.mccandlish@gmail.com

Plant microEvoDevo funding

microMORPH (Molecular and Organismal Research in Plant History) training grants Deadline: November 1, 2011 Award amount: up to $3,500

microMORPH is announcing a funding opportunity for graduate students, post-docs, and early career faculty. Each award is up to $3,500 and is available to individuals with an interest in microevolutionary aspects of plant evo-devo. In particular, we wish to encourage visits from evolutionary ecologists, systematists and morphologists to visit molecular developmental labs with the intention of developing tools to investigate clade-level diversifications V and visits from members of molecular developmental labs interested in learning of the biology and evolutionary ecology of non-model groups of species. The interdisciplinary nature of these focused interactions will provide a unique opportunity for participants to integrate historically disparate fields and in turn develop research programs at the interfaces of evolutionary ecology, organismic biology, and developmental biology.

Please see our website (http://www.colorado.edu/eeb/microMORPH/) for a list of past awardees and details on how to apply.

These training grants are supported by a five-year grant from the National Science Foundation entitled microMORPH: microevolutionary Molecular and Organismic Research in Plant History. This grant is funded through the Research Coordination Network 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.

In addition to awarding travel and training grants, the microMORPH RCN also hosts web pages for graduate students, postdoctoral researchers, and faculty working on plant microevolutionary developmental biology from a paleobotanical, organismic, morphological, or molecular perspective or any combination thereof. If you do not already have a microMORPH web page and would like us to host one for you, please contact us and we will set one up for you (no computer work is necessary from your end). Please visit our web page for examples: http://www.colorado.edu/eeb/microMORPH/ Thanks,

Rob Baker

PhD Candidate Dept. of Ecology and Evolutionary Bio University of Colorado at Boulder http://www.robertlbaker.org microMORPH RA http://www.colorado.edu/eeb/microMORPH Mailing Address: Arnold Arboretum of Harvard University 1300 Centre St. Roslindale, MA 02131

"Robert L. Baker" <robert.baker@Colorado.EDU>

Software Gstudio GeneticMarkerAndR

Use R for data analysis and deal with marker data? Want to become more spatially explicit? There is an R package that you may find helpful.

It contains: - Locus class to treat marker loci as

a regular data type. Can handle any ploidy level with alleles as numeric or character. - Frequencies A class for grabbing and manipulating allele frequencies - Population class, a data.frame for loci, covariates, factors, etc. - genetic.distance() for individual or strata distances, present distances include Jaccard, Bray-Curtis, AMOVA distance, Euclidean frequency distances, Cavalli-Sforza, Nei, cGD(Dyer et al. 2010; from population graphs) - genetic.structure() function that yields estimates of Gst, Gst.prime, Dest - population.graphs() a graph-theoretic depiction of conditional genetic covariance, also yielding cGD, a genetic distance metric. - stratum.distance() physical 'great-circle' distances among stratum in a Population - pies.on.map() creates a KML google map of allele frequencies in populations as pie charts. - popgraph.on.map() stretches population graph topology onto KML google map. - congruence.graphs() test

In addition, there are example data sets and thorough PDF vignettes on how to use it and how to integrate it with existing R packages. You can download the source or packages for OSX & Windows from and see the vignettes at http://cran.r-project.org/web/packages/gstudio/index.html or you can just install it by: install.packages("gstudio") and grab the vignettes from the command vignette() in R.

The current version (0.2) is released under the GPL and the next version will have topological congruence summaries for comparing population graphs. If you have any questions or comments on this (after you read the vignettes) feel free to drop me a line.

Rodney

Rodney J. Dyer, PhD Department of Biology Virginia Commonwealth University dyerlab.bio.vcu.edu rjdyer@vcu.edu

Rodney Dyer <rjdyer@vcu.edu>

Software Transformer-4 T4

Dear EvolDir members:

I am contacting you to introduce Transformer-4 (T4), a free multi-platform computer software programmed in Java to boost the analysis of any genotype matrix in PC, Mac or Linux.

T4 is suitable for codominant and dominant genotype matrices containing an unlimited number of alleles per locus, loci, individuals, populations, or taxa (diploid individuals, in the case of codominant data).

Any number of genotype matrices resident in T4's matrix explorer is liable to be transformed easily, swiftly and simultaneously into the input formats of one or several of the 38 most commonly used population genetic software (and for any possible combination of the populations that each matrix contains).

T4 also allows the users to quickly publish peer-reviewed "genetic diversity digests" in the Demiurge information system. Such "digests" are made up by a geo-referenced T4 genotype matrix plus any ancillary information relevant to its interpretation that the authors see fit to include (see an example digest clicking here< http://www.demiurge-project.org/images/-digest_show.png >).

To use T4, just register in the Demiurge information system by clicking on

http://demiurge-project.org/register , and fill in at least the mandatory fields. Registration is a free, fast and easy process.

After accepting Demiurge's terms of use through the validation email that the system will send you, users can download T4 and all its converters (or any subset thereof) respectively from:

http://www.demiurge-project.org/download_t4 http://-/www.demiurge-project.org/converterstore Four examples of Excel matrices suitable to be imported to T4 are available in the T4 download page.

Downloading and installing converters in T4 is an extremely fast and easy process, which is described in Chapter 4 of the user's manual provided within the application (under the "Help" button).

Two papers about the information system Demiurge and the software Transformer-4 will soon be submitted to the journal Bioinformatics.

A list with the most important features offered by T4 and Demiurge is given below.

On behalf of the Demiurge development team< http://-www.demiurge-project.org/contact >, we hope you enjoy T4 and Demiurge

Juli Caujapé-Castells Jardin Botanico Canario "Viera y Clavijo"-Unidad Asociada CSIC (Cabildo de Gran Canaria)

The key features offered by T4 and the Demiurge information system are the following:

1. T4 and all its converters are free, and suitable for Mac, PC and Linux operative systems. 2. The T4 for-

mat provides a standard for genotype matrices. 3. T4 is customizable, as users may choose which software converters to install. 4. T4 is interactive, as independent programmers may submit new converters that comply with T4's API through Demiurge's Converter store. 5. T4 includes a "Thesaurus wizard" web service for the validation of the taxonomic names in the matrices prior to initiating the publication of a genetic diversity digest. 6. The publication of digests in Demiurge can only be initiated from the T4 software, with the advantages that: (i) Demiurge affords a fast, free and easy way to store standardized T4 genotype matrices, and manage or re-analyze them, thereby avoiding the risk of their being lost or corrupted in the users' computers; (ii) Demiurge immediately assigns a unique digest code upon submission that does not change after the review process, and may therefore be cited in scientific communications or papers; and (iii) Demiurge allows all registered users to access other matrices hosted by this information system, which are ready for download and fast meta-analysis through the above-described capabilities of T4. 7. Demiurge automatically hyperlinks all taxa in the digests with available meta-data about them in GBIF, GenBank, JSTOR, and The Encyclopedia of Life. 8. Upon digest acceptation, all authors receive an e-certificate of digest authorship and integrity, and the reviewers receive an e-certificate of acknowledgement. 9. After digest publication, the corresponding authors may use their access data to Demiurge to manage most items in the digests on behalf of all authors (except for the .tfm4 genotype matrix), correct eventual errors, and add or remove optional ancillary information. 10. Data in published digests can only be downloaded by registered users, who have accepted Demiurge's terms of use. 11. All the data and meta-data in Demiurge are safely and permanently stored at the supercomputing facilities of the Instituto Tecnológico de Canarias (Gobierno de Canarias), and are curated by members of this institution. To

— / —

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

Software TreeScaper

Dear Evoldir Community,

An alpha version of the cross-platform software package TreeScaper is now available for download at:

http://bpd.sc.fsu.edu/index.php/diagnostic-software/-104-treescaper TreeScaper calculates and displays the relationship among tree-to-tree distances in 2d or 3d. TreeScaper can be used to address some of the applications described in:

Hillis D. M., Heath T. A., and St John, K. 2005. Analysis and visualization of tree space. Systematic Biology. 54: 471-482.

With TreeScaper you can: - Display 2d and 3d plots of tree-to-tree distance matrices - Rotate 3d plots - Create movies of rotating 3d plots - Color-code sets of trees - Change the optimization algorithm and cost function used to project tree-to-tree distances in n-dimensions - Calculate several goodness of fit measures for your projections of tree-to-tree distances - Input tree-to-tree distance matrices output by PAUP* - Calculate several intrinsic dimensionality measures for a tree-to-tree distance matrix

Graphical versions of the software are available for LINUX, Mac OS X, and MS Windows. A portable command-line version is also available for HPC environments.

Jim Wilgenbusch wilgenbusch@fsu.edu wilgenbusch@fsu.edu

SSE September Update

Greetings,

Here's an update on the latest from the Society for the Study of Evolution. I hope you made it to the annual meeting in Norman, Oklahoma. If you didn't, we're meeting in Ottawa next summer (July 6-10, 2012) with several societies, including the European Society for Evolutionary Biology, the American Society of Naturalists, the Society of Systematic Biologists and the Canadian Society for Ecology and Evolution. Information about Evolution 2012 Ottawa will be coming soon at this link: www.confersense.ca/Evolution2012/-index.htm. REMEMBER to update your passport!

And, in 2013, we've decided to confab among the mountains at Snowbird, Utah.

Our Council meeting in Norman confirmed that the Society is in excellent financial shape, enabling us to double the number of student travel awards over the

previous year (20 to 40). We've passed a motion for subsidized childcare for the next meeting and are working on a new mentoring program. Since our goal is not simply to accumulate endowment funds, over the next few years we will continue to fund new projects and increase funding of old ones, especially for student travel and research.

A few other items of interest: the SSE is now providing financial support for the National Center for Science Education, a critically important organization for fighting creationism in America, and our Education and Outreach Committee continues to fund teacher workshops as well as sponsoring a symposium at the annual meetings.

We also have a slate of candidates for this fall's elections, and you'll be asked to vote soon. Do remember that you can nominate candidates for the various offices by responding to the call for nominations early each calendar year.

Like the Society, our journal Evolution is thriving as well. You can read Editor-in-Chief Daphne Fairbairn's journal update here (http://-www.evolutionsociety.org/zNews20110902-journal.asp)

Five other matters for your attention: 1) The Biological Sciences Directorate at NSF is implementing new submission and proposal review procedures. As this will affect many of you, please read the recent "Dear Colleague" letter (dated August 15) from Dr. Joann Roskoski, Assistant Director (Acting) www.evolutionsociety.org/news.asp#nsf11815 2) Announcing the NSF and USAID Partnerships for Enhanced Engagement in Research (PEER) http:/-/www.nsf.gov/news/news_summ.jsp?cntn_id=121003 3) Membership renewals will start on October 1st. Why October 1st? Efficiency is the answer, particularly if you are ordering a print copy of EVOLUTION. Getting the subscription numbers right before producing the new volume allows us to be as efficient and timely as possible in working with our printers and distribution services. During the renewal process, you will have the opportunity to support the Society through gifts to our important awards and Society funds.

Please take the time to renew your membership when the notice comes out.

4) The American Society of Naturalists (ASN) is soliciting a brief survey about future biennial and independent meetings of the ASN, although they will continue to meet with the SSE/SSB. To read about this concept, and fill out a brief survey to help the ASN plan these meetings, go here (http://www.surveymonkey.com/s/-YNCHZ9V).

5. Are you interested in supporting improved Science Literacy? In 2010, SSE became a partner in the PlantingScience program. This is a 14 Society coalition mentoring middle and high school students online. We're looking for members to volunteer 3-5 hours, over a four to six week period, to be online mentors. Learn more about the program at http://-www.PlantingScience.org/. To become a part of the program click the scientist tab and then, Volunteer as a Scientist Mentor.

Cordially,

Jerry Coyne President, The Society for the Study of Evolution

Jerry Coyne via WDahl <wdahl@botany.org>

Tropical Dmelanogaster needed

I am looking for strains of Drosophila melanogaster derived from recent (last decade) collections in the American tropics – preferably, lowlands of Central or South American mainland between the 20 degree N and S parallels.

james.fry@rochester.edu

Wolf parental care reference

Dear Evoldir community,

I am looking for a (probably old) reference regarding the evolution of male parental care in wolves. The story that i vaguely remember is that mothers produce so many pups that they are rendered unable to forage, and so the male is forced to forage. Any similar documented case for any species would be welcome.

Thank you in advance, Doug Yu

Dr. Douglas W. Yu Kunming Institute of Zoology, China and University of East Anglia, UK

dougwyu@gmail.com

PostDocs

Canberra Australia ComputationalGenomics

The Computational Genomics Group in the John Curtin School of Medical Research, Australian National University (Canberra, Australia) have made pioneering contributions to our understanding of genetic diversity within and between mammal species in areas including: the genomic distribution of linkage disequilibrium, human molecular adaptation, the influence of sex on mutation rates, the relationship between epigenetic state and genetic variation, and the radiation of mammals. These contributions have been accompanied by significant methodology developments in the form of both novel statistical models and open source software for analyses of genomic diversity. Our recent advances in models of context-dependent substitution, for instance, represent a significant advance in robust estimation of the mode of natural selection.

We are seeking outstanding applicants for a postdoctoral fellowship. The individual will work on the development and application of improved models of sequence divergence, joining a highly productive collaboration between Associate Professors Gavin Huttley and Von Bing Yap (Department of Statistics and Applied Probability, National University of Singapore). The work will build on the PyCogent open source software toolkit for statistical modelling of molecular evolution developed in the Huttley lab.

Application deadline: 13 October 2011 http://-jobs.anu.edu.au/PositionDetail.aspx?p=3D2266
For more details, please contact Gavin Huttley (Gavin.Huttley@anu.edu.au).

Gavin.Huttley@anu.edu.au

CCMAR Portugal PlantPhylogenomics

POSTDOCTORAL POSITION

Applications are invited for a postdoctoral researcher position at the Centro de Ciencias do Mar (CCMAR), University of the Algarve (CCMAR - http://-www.ccmar.ualg.pt/) in the research group of Cymon J. Cox (Plant Systematics and Bioinformatics). The successful applicant will participate in the project titled "A phylogenetic study of charophyte and land plant chloroplast evolution using data- and time-heterogeneous substitution models" funded by the Portuguese Foundation for Science and Technology (FCT).

Project overview: The evolutionary transition of plants from an aquatic to a terrestrial environment marks the initiation of terrestrial ecosystems and is one of the most important events in Earth history. It is widely accepted that the modern diversity of land plants (embryophytes) originated from a single evolutionary event and that they arose from ancestors of the freshwater charophyte algae. However, phylogenetic relationships among the groups of charophytes and among the major groups of land plants (bryophytes and tracheophytes) are controversial. This phylogenetic uncertainty spans the evolutionary land-transition boundary making it difficult to polarise the key developmental innovations underpinning land colonisation. In this project we will apply innovative phylogenetic analyses to chloroplast genomic data to resolve these relationships, and supply the necessary conceptual framework to determine the evolutionary trajectory of morphological traits during the colonisation of land.

The project includes the assembly and annotation of chloroplast genomes from next-generation sequence data, and will provide the successful candidate with an opportunity to study bioinformatic techniques and phylogenomic analysis.

Candidates must have a strong background in phylogenetic and systematic theory and practice, and preferably a knowledge of green algal and bryophyte systematics. Familiarity with the manipulation of next-generation sequence data and a programming language such as Perl or Python would be an advantage, though not a strict requirement. An extensive publication record will also be advantageous.

The position is available immediately and until the end of December 2013 (after an initial 1 year probation), and is open to all nationalities. The researcher will receive a salary of 1495 euros/month in accordance with the grant component amounts of the Portuguese Foundation for Science and Technology.

Applications should be submitted before Wednesday 14th September 2011 to Cymon J. Cox (cymon@ualg.pt). Applicants should send a covering letter detailing their research interests, a current C.V., and the email addresses of 3 professional referees. Informal enquires are welcome to the same address.

CCMAR < http://www.ccmar.ualg.pt/home > is located on the Gambelas campus, 4km from Faro, the capital city of the Algarve and close to Faro International Airport (FAO)< http://www.ualg.pt/-index.php?option=com_google_maps&Itemid=-2311&lang=en > .

Official CCMAR/FCT advertisement. < http://www.ccmar.ualg.pt/home/-assets/files/Anuncios/Bolsas_Jobs/2011/-ENG%20Anuncio_CCMAR_BPD_0034_2011_.pdf >

Cymon Cox <cymon@ualg.pt>

EmoryU Bioinformatics

The Taylor Lab (http://bx.mathcs.emory.edu/) in the Biology and Mathematics & Computer Science departments at Emory University is currently recruiting postdoctoral scholars with expertise in Bioinformatics and Computational Biology. The lab currently has research interests a number of areas:

* The Galaxy Project (http://galaxyproject.org), which builds software and infrastructure to make computational biology more accessible to experimentalists. Research foci include both the development of analysis and data management tools, and the development of novel user interfaces and interactive visualizations for analyzing large-scale data.

* Distributed and high-performance computing for data intensive science, specifically genomics.

* Vertebrate functional genomics, particularly through the development of novel machine learning, data mining, and data integration methods incorporating ge-

nomic sequence and experimental data.

* Genomics and Epigenomic mechanisms of Gene regulation, the role of transcription factors and chromatin structure in global gene expression, development, and differentiation.

We are seeking post-docs with complementary research interests. Well developed research plans that complement but extend the lab's current interests will be looked upon favorably. Specific area of academic background is flexible. Our group is located in the Biology Department; however because our work is largely computational, programming / software development experience is important.

Applicants should submit a CV, a statement of research interests or research plan, and a few references to james.taylor@emory.edu.

– http://galaxyproject.org/ http://getgalaxy.org/ http://usegalaxy.org/ http://galaxyproject.org/wiki/
Dave Clements <clements@galaxyproject.org>

GoettingenU BacterialComparativeGenomics

The "Geomicrobiology and Symbiosis" research group in the Courant Research Centre (CRC) for Geobiology, University of Goettingen, Germany invites applications for a 23-month postdoctoral position on bacterial comparative genomics.

The project will focus on a host-specific ectosymbiosis involving Niphargus amphipods and Thiothrix bacteria, which occurs within sulfide-rich limestone caves in Italy (Dattagupta et al., 2009, ISME J 3, 935-943). The symbiont genome will be compared with that of free-living Thiothrix present in bacterial mats in the amphipod habitat, to uncover the genomic basis and possible evolutionary consequences of the symbiotic lifestyle. The successful candidate is expected to develop related projects that may arise from the genome analyses.

Goettingen is a quaint German university town with an international student-based community. The CRC Geobiology, funded through the German Excellence Initiative, offers state-of-the-art facilities and an excellent environment for interdisciplinary research. Moreover, genome analyses can be done locally in the Goettingen Genomics Laboratory (http://www.g2l.bio.uni-goettingen.de/). The successful candidate will join a small but growing group (http://www.uni-goettingen.de/en/102704.html) established in August 2008.

A PhD degree in a relevant field, a strong background in Molecular Biology and Bioinformatics, and fluency in English are required. A Microbiology background and previous experience with bacterial genomics is preferred. International applicants and women are encouraged to apply, and disabled persons with equivalent aptitude will be given special consideration.

The position is fully funded through the German Research Foundation (DFG), and salary is based on the German TVL-13 scale. The contract will start as soon as possible after the suitable candidate is identified.

Applications should be sent to Dr. Sharmishtha Dattagupta (sdattag@uni-goettingen.de) by October 31, 2011, and include a curriculum vita, copies of one or two recent publications, a statement of research interest (or letter of motivation), and contact information of two referees. Informal inquiries are welcome.

sdattag@uni-goettingen.de

INIA Spain ForestQuantitativeGenetics

A postdoctoral position in Forest Quantitative Genetics is available at the Forest Research Centre (CIFOR) of the Spanish National Institute of Agricultural Research (INIA) in Madrid, Spain. The duration is 14 months, starting November 1st 2011, with possibility of being extended up to 18 months.

Current research in our lab employs molecular genetic tools and statistical genetics models to investigate multi-scale population genetic processes and patterns that are relevant to tree conservation management. The postdoctoral fellow will participate in an ongoing project on the interaction between gene flow and local adaptation in forest trees, the main goal of which is to assess the adaptive consequences of allochthonous gene introgression into two relict Iberian populations of Pinus sylvestris var. nevadensis and Pinus pinaster Ait. The appointed fellow will be in charge of designing, implementing and analyzing common-garden quantitative genetic assays aimed at estimating early-stage selection differentials between local, non-local and hybrid progenies obtained from controlled pollinations (seeds already available).

The appointed fellow will benefit from a dynamic, mul-

tidisciplinary and international research environment in our group, with opportunities for collaboration with several other Spanish, European and American teams.

EU citizens, Spanish residents, and citizens of non-EU countries having free-movement labour treaties with the EU are eligible. The successful candidate should have an excellent academic and publication record, and a good background in quantitative genetic experiments, population genetics and statistical analyses. High levels of written and spoken English are essential. Reading and spoken Spanish are desirable.

There is an extremely short deadline for applications (September 26th, 2011). If you are interested and/or would like further information, please send me an email including a CV, a statement of research interests and a brief overview of your previous academic and research experiences. Formal applications can be submitted by registered post until Sept. 26th (included), and should include documents certifying the merits claimed in the CV (required by our Institute).

Juan J. Robledo-Arnuncio

CIFOR-INIA

jjrobledo@gmail.com http://sites.google.com/site/-jjrobledo2/ jjrobledo@gmail.com

MaxPlanckInst EvolutionaryBiol

Postdoctoral position: Mathematical modeling of eco-evolutionary dynamics in predator-prey and host-parasite systems, Max-Planck-Institute for Evolutionary Biology, Plön (Germany).

We are looking for a postdoctoral fellow to participate in the newly established, interdisciplinary research group ?Community dynamics? working on different aspects of eco-evolutionary community dynamics combining theoretical and empirical approaches. The position is available from 1st January 2012 for the period of for one year, with a second year renewable depending on progress. The successful applicant will be working on the development and analysis of mathematical models in evolving predator-prey and host-parasite communities, in close collaboration with experimentalists. For details of the study system refer to Becks et al. 2010 Ecology Letters, Becks & Agrawal 2010 Nature, Ellner & Becks 2011 Theoretical Ecology. For more information on the project contact Lutz Becks (lbecks@evolbio.mpg.de).

The research program allows flexibility and both theory aiming towards general frameworks and more mechanistic models targeting specific empirical systems are encouraged. The institute offers a stimulating international environment and an excellent infrastructure allowing for the most recent techniques. The town of Plön is in the middle of the Schleswig-Holstein lake-district within a very attractive and touristic environment near the Baltic Sea, close to the university towns of Lübeck and Kiel. Hamburg and Lübeck are the closest airports.

Highly motivated candidates with a Ph. D. degree in evolutionary biology, ecology, or mathematical biology with a strong record of scientific publications are welcome to apply. Applicants should have a background in evolutionary theory or population dynamics and show strong mathematical and computing skills, an enthusiasm for basic research and ideally experience in population genetics. The successful candidate should be able to communicate effectively with individuals from a wide range of disciplines.

Applicants should send their CV, list of publications, statement of research interests, and contact information of 2 referees as a single PDF to Lutz Becks (lbecks@evolbio.mpg.de). In the cover letter, applicants should describe their theoretical background and experience with mathematical modeling evolutionary theory and population dynamics explicitly. Review of applications will continue until the position is filled.

The Max Planck Society is an equal opportunity employer.

LBecks@uni-koeln.de

MaxPlanckInst Gottingen PopulationGenomics

Postdoctoral Fellowship - Population Genomics

The newly formed group for Biophysics and Evolutionary Dynamics at the Max-Planck-Institute for Dynamics and Self-Organization in Göttingen is looking for a highly motivated postdoc to work with Oskar Hallatschek on the inference of recombination rates and (time-dependent) population sizes in the recent history of human populations.

On the basis of a novel parameter-free method to reconstruct recombination rates in Human populations, we aim at an improved Bayesian inference of past demographic events based on Human genome data sets. The

project will involve a combination of theoretical and computational approaches. The successful applicant should have a PhD in Biology, Bioinformatics, theoretical Physics or Statistics, and some previous experience in population genetics, statistics and programming (e.g. in C/C++, Java, or R).

The postdoc will join a young and interactive research group focusing on nonequilibrium statistical physics and evolutionary dynamics, including theoreticians and experimentalists. We cultivate an international atmosphere and the everyday working language is English. The MPI DS is located close to the center of the medieval town of Göttingen. More information about the group is available on the web at: http://-www.evo.ds.mpg.de The successful applicant will receive a 2 years postdoctoral fellowship. The net salary starts at approximately euro 2100,- per month depending on age and experience. Interested candidates should send a cover letter summarizing their research background and interest in the position, CV, and contact information of three potential referees as a single PDF file to: oskar.hallatschek.applications@gmail.com

Applications will be reviewed beginning November 30, 2011. Interviews will be held in December. If you have any specific questions (e.g. details of the project), feel free contact the group leader.

The Max-Planck-Institute for Dynamics and Self-Organization is an Equal Opportunity/Affirmative Action Employer and has an affirmative action for the disabled.

oskar.hallatschek.applications@googlemail.com

MaxPlanck Plon ExperimentalEvolution

Â'Postdoctoral grants at the Max Planck Institute for Evolutionary Biology, Plön, Germany

Post-doctoral grants are available for ambitious, motivated scientists to join Experimental Evolution Research Group. We can provide excellent research funding and support for projects that build on or complement our existing program. Positions are funded by the Max Planck Society for 2 years initially.

We use Saccharomyces yeasts as model organisms for evolution and ecology. Â' Saccharomyces cerevisiae is probably the best known and most tractable model organism used in biology, but its life outside the laboratory is poorly understood. We study the evolution of various interesting yeast traits using both laboratory experiments and observations of wild yeast. For a primer on yeast evolutionary biology, and to understand the motivation for our research please read Greig, D. & Leu, J-Y. (2009) âNatural history of budding yeastâ Curr. Biol. 19:R886-890. For our current work, please see our lab web page:

http://www.evolbio.mpg.de/expevolution/Greig/-Welcome.html The Max Planck Institute for Evolutionary Biology offers outstanding infrastructure and facilities, and is attractively located in Northern Germany, in a lake district near the Baltic coast. It is well connected by train to the university towns of Lübeck and Kiel, and Hamburg is the nearest major airport.

Applicants must have a PhD and at least one peer-reviewed publication in the field of evolution or ecology. Applicants should prepare a short (<500 word) research proposal, a CV, and contact details for three academic referees. They should combine these into a single PDF file and send it by email to Duncan Greig (d.greig@evolbio.mpg.de). Informal enquiries can be made to any member of the Research Group. Applications will be considered until suitable candidates are found.

Duncan Greig <d.greig@evolbio.mpg.de>

Montpellier BurkinaFaso EvolutionaryEcology

Evolutionary Ecology of host-parasite interactions

MIVEGEC, IRD, Montpellier, France IRSS, Bobo-Dioulasso, Burkina Faso

A post-doctoral position, funded by the French national research agency (Agence National de la Recherche) is available to work on the evolutionary ecology of mosquito-malaria interactions in the Unit "MIVEGEC" at the research institute for development in Montpellier, France. The position is available starting in February 2012 with the possibility of continuing support for up to 2 years. The major goal of the project is to understand the effects of a series of environmental factors on mosquito-malaria parasites interactions. Based at the research institute for health sciences in Bobo-Dioulasso, Burkina Faso, the successful appli-

cant will investigate the role of vertebrate host diversity on Anopheles gambiae-Plasmodium falciparum coevolutionary conflicts. This includes (i) looking at the blood composition of a range of different vertebrate hosts and quantifying the host/parasite fitness costs and benefits of feeding on these blood sources, (ii) developing behavioural experiments to measure the odour-mediated host preference of infected and uninfected mosquitoes in the lab and (iii) studying mosquito blood-feeding behaviour in the field. The applicants should have a strong background in one or more of the following areas: entomology, parasitology, animal behaviour/behavioural ecology, evolutionary ecology. A PhD in evolution, ecology, parasitology, entomology or similar field is required. Particularly encouraged are applicants with prior experience in field malaria research. The applicant should work well independently and as part of a team, and should be enthusiastic and highly motivated. The daily language at the research institute for health science in Bobo-Dioulasso is mostly French and knowledge of this language will be an advantage. Gross monthly salary is 2150EUR (this salary includes health insurance, retirement contribution and other social security contributions, but not income tax); Net salary of 1700EUR. Please email an application, consisting of a cover letter describing previous experience and fit to the position, full CV with a list of publications, and the names and contact information of two references to Anna Cohuet (anna.cohuet@ird.fr) and Thierry Lefèvre (tlefvre@gmail.com). The deadline for applications is October 15th.

For more information:

http://www.mivegec.ird.fr/ http://-www.mivegec.ird.fr/index.php?option=-com_content&view=article&id=57&Itemid=-97&selected=117 https://sites.google.com/site/-thierryelefevre/ Questions: anna.cohuet@ird.fr, tlefvre@gmail.com

Lefevre thierry <telefev@emory.edu>

TexasTechU PopulationGenetics

Postdoctoral Associate Position

Population and Ecological Genetics

A postdoctoral research associate position is anticipated to work on local adaptation across latitude in North American forest trees. The project focuses on identification of genes and traits important for local adaptation in trees from populations spanning latitudes from southern Canada to northern Alaska. Our research has implications for plant migration responses to climate change, effects of local adaptation on genome-wide and population-level polymorphism, and tree breeding. We are searching broadly because there are many interesting projects for postdoctoral level scientists that may have different skill sets. The successful candidate may have strengths in one or more of the following areas: population genetics and bioinformatics, plant physiology, or ecological genetics. Opportunities will be provided for development in one or more of the following areas: molecular ecology, bioinformatics, whole genome and transcriptome sequence analysis, and plant ecology and physiology. Opportunities may be available for travel to Alaska, southern Canada, or Colorado during the summer for field studies and monitoring common gardens. An earned PhD is required. Further information regarding this and related projects can be found in publications Olson et al. 2010 New Phytol.186:526-536; Keller et al. 2010 Mol. Ecol. 19:1212-1226; Sollanayakanahally et al. 2010 PC&E 32:1821-1832.

The successful postdoc will be located in the Olson lab in the Biological Sciences Department at Texas Tech University. The department has 44 faculty and >100 graduate students. The postdoc will benefit from interactions with the Ecology, Evolution, and Behavior core faculty as well as a strong faculty in Plant Sciences. Lubbock, Texas is 1 hour from the New Mexico border, providing easy access to outdoor activities. The climate is dry and averages over 262 days with sun per year. The cost of living is low and the community is warm and inviting.

Salary will be commensurate with qualifications and experience. Interested applicants should send a letter of interest, CV, and names and email addresses of 3 references to Matt Olson, Department of Biological Sciences, Texas Tech University, P.O. Box 43131, Lubbock, TX USA 79409-3131, or email matt.olson@ttu.edu. Texas Tech is an Equal opportunity/affirmative action employer.

matt olson <matt.olson@ttu.edu>

UCalgary EcoEvoDynamics

I am once again seeking applicants for the Killam post-

doc. This is a competitive, 2-year postdoc awarded by the University of Calgary in any academic discipline. The award provides a salary of $45,000 CAD/year, health benefits, and a research/relocation allowance of $6000. For more on the Killam postdoc, see http://www.grad.ucalgary.ca/awards/-award_competitions/killam_postdoctoral_awards

The awardee would be expected to develop their own independent research on some topic of mutual interest to themselves and their faculty mentor (that would be me). I welcome applicants interested in pursuing fundamental theoretical and/or empirical research in any area of evolutionary ecology (especially eco-evolutionary dynamics), as well as population and community ecology. For more on my lab, see http://-homepages.ucalgary.ca/%7Ejefox/Home.htm To be eligible, you must have completed your PhD sometime after Sept. 1, 2009, or else anticipate completion by Sept. 1, 2012.

The University of Calgary is home to a strong group of evolutionary biologists and ecologists, who are part of a large Dept. of Biological Sciences (>60 faculty, >170 graduate students). The city of Calgary is a vibrant city of one million people, close to the Rocky Mountains with all the opportunities for research and recreation that implies.

Application deadline is Dec. 15, 2011 (that's the departmental deadline; one applicant will be selected by my dept. for consideration at the university level in Jan. 2012). The application needs to include a research proposal; prospective applicants should contact me well in advance to discuss this.

-Jeremy Fox

Associate Professor Dept. of Biological Sciences University of Calgary 2500 University Dr. NW Calgary, AB T2N 1N4 Canada http://homepages.ucalgary.ca/-˜jefox/Home.htm Jeremy Fox <jefox@ucalgary.ca>

UCalgary ParasiteEvolutionaryGenomics

Postdoc position available in parasite evolutionary genomics

I am seeking a postdoctoral fellow to carry out genomic and bioinformatic research in host-pathogen interactions. Initially, the position will be for two years.

Individual and collaborative projects that my lab is involved in include: evolution of parasitism [1,2], population genomics, metabolic network analysis [3], and molecular basis of drug resistance. In addition to working on core projects, the recruited postdoc will be given time to develop their own research directions.

My group is based in the Faculty of Veterinary Medicine at the University of Calgary. Close integration between VetMed and the Faculty of Medicine means that the recruited postdoc will benefit from an environment surrounded by internationally recognised researchers of various infectious diseases, including parasites, viruses and bacteria.

Required: A PhD degree. Background in molecular evolution, genetics or genomics. An ability to use Linux operating system together with experience of designing experiments and organising and analysing sequence data. An ability to work independently with good communication and presentation skills

Strongly Desired: Experience with next-generation sequence data. Programming skills. An interest in pathogen and parasite biology.

The University of Calgary's Faculty of Veterinary Medicine (UCVM) is a new and dynamic veterinary faculty in Western Canada that is committed to strengthening the connections between animal health, public health, and the environment. Calgary is a vibrant, multicultural city with a population of 1,000,000. It was recently ranked as the worlds fifth most liveable city. Located near the Rocky Mountains and Banff National Park, there is an enormous opportunity for outdoor activities both in winter and summer.

The start date is January 2012 (this is negotiable). For potential candidates that are finishing their PhD studies, please note that you will be expected to have successfully completed your PhD exam/viva before a contract can be offered. However, you should still apply if you are close to submission.

If you are interested in the position, please send a brief letter outlining your motivation, your CV and contact information for three references to jwasmuth@ucalgary.ca (subject header: postdoc position).

I will begin considering applications from 15th November. All applications will be read until the post is filled.

James Wasmuth, PhD. Department of Ecosystem and Public Health, Faculty of Veterinary Medicine, University of Calgary, Calgary, Alberta, Canada.

Web: http://www.compsysbio.org/lab/james-wasmuth 1. Wasmuth et al. Genome Research (PMID: 19363216) http://goo.gl/n9fQc 2. Wasmuth et al.

PLoS Negl. Trop. Dis. (PMID: 18596977) http://goo.gl/1yFwi 3. Hung et al. Bioinformatics (PMID: 20513663) http://goo.gl/9BOIB jwasmuth@ucalgary.ca

UCalifornia SanFrancisco StatisticalGenetics

This ad is directed to someone with training in evolutionary genetics.

Postdoctoral Positions in Genetic Epidemiology or Statistical Genetics - The UCSF Pulmonary Genetics Laboratory is seeking a career motivated scientist with interest and expertise in either genetic epidemiology or statistical genetics to engage in understanding the genetic basis of asthma and related traits among Latino and African American children. The position is available as of September 1, 2011 and is limited to two years with the possibility of being extended. The research environment is enhanced by large, family-based and case-control study populations of well phenotyped individuals from racially diverse populations. Diverse study populations include detailed clinical, environmental, demographic, social, spirometric, geo-coded air pollution, and genetic (GWAS) data from ˜7000 well characterized subjects of African American, Mexican, Puerto Rican, Caribbean, Central American, and South American descent. Ongoing projects in the PGL include genome-wide association studies, studies related to genetic ancestry, and investigations of admixture mapping for complex diseases. Opportunities for training and research are available in many studies, including asthma, social and environmental epidemiology, pharmacogenetics, population-based genetics, and understanding the modifying effects of race & ethnicity. Our synergistic group is highly interactive and includes physician-scientists, geneticists, social and genetic epidemiologists, programmers, biostatisticians, and molecular biologists.

The successful applicant should have a PhD and a strong background in genetic epidemiology or statistical genetics, programming capabilities, and experience in human genetic studies of complex traits is required. The applicant is expected to work independently and she/he will have unlimited access to primary data while part of the PGL. The successful applicant must have outstanding letters of recommendation and have an excellent ability to work well with others. Outstanding communication and writing skills are a must. Publication experience is highly desired. The candidate is also expected to participate in teaching and act as a supervisor/teacher for students enrolled in UCSF's PhD programs. The position includes obligations to publish/conduct scientific dissemination as well as doing research based teaching. Successful candidates are also expected to take part in grant writing. The composition of the various tasks may vary according to the laboratory's research priorities but will ensure that the post doc will gain further qualifications within both research and teaching. Preference will be given to applicants meeting residency requirements for sponsorship from a National Institutes of Health training grant. Send curriculum vitae and three letters of recommendation to Dr. Esteban Gonzalez Burchard, M.D., M.P.H., (Esteban.Burchard@ucsf.edu). UCSF is an affirmative action/equal opportunity employer.

Esteban González Burchard, M.D., M.P.H. Professor, Departments of Bioengineering & Therapeutic Sciences and Medicine Director, Center for Genes, Environments & Health Vice Chair, Department of Bioengineering & Therapeutic Sciences University of California, San Francisco Phone: 415-514-9677 Fax: 415-514-4365 Email: Esteban.Burchard@ucsf.edu Lab web site: http://bts.ucsf.edu/burchard/ Mailing Address: UCSF/Lung Biology Center Box 2911 San Francisco, California, 94143-2911

Shipping Address: UCSF MC 2911 Rock Hall Room 584 D 1550 4th Street San Francisco, California, 94158-2324

"Burchard, Esteban" <Esteban.Burchard@ucsf.edu>

UCambridge InfectionDynamics

Job Opportunity - Post-doctoral Research Associate - Experimental Infection Dynamics

University of Cambridge - Department of Veterinary Medicine

Vacancy Reference No: PN08801 Salary: £27,428-£35,788

Limit of tenure applies*

A research associate is required to set up a new experimental system for infection dynamics consisting of the nematode 'Caenorhabditis elegans' and bacterial parasites 'Salmonella enterica' and 'Bacillus thurigiensis'.

This exciting, multi-disciplinary project, funded by the BBSRC, is led by Dr Olivier Restif, who will be developing mathematical and statistical models in relation to the experimental system. This post will be responsible for setting up the system within the renowned Bacterial Infection Group; designing and conducting experiments with the aim of measuring the dynamics of infection within individual nematodes and the spread of infection in populations.

Candidates should hold a PhD (or equivalent) in microbiology or a related field. Experience in working with live microorganisms, preferably 'Caenorhabditis elegans', fluorescence microscopy and genetics is essential. Knowledge of infection dynamics, ecology and statistics would be useful, although training in these areas will be available.

For further information, please contact Dr Olivier Restif (email: or226@cam.ac.uk), or see the further particulars at http://www.vet.cam.ac.uk/news/ . For an application form (CHRIS/6) contact Melissa Large (01223 337055) quoting the title of the position, or download the form from http://www.admin.cam.ac.uk/offices/-hr/forms/chris6. (Complete parts 1 and 3 only)

The complete application form, CV and letter of application should be sent to Melissa Large, Department of Veterinary Medicine, Madingley Road, Cambridge, CB3 0ES or emailed to recruit@vet.cam.ac.ukby the 1st October 2011. Applications can be made via email to recruit@vet.cam.ac.uk with the above documents as word attachments.

* Limit of tenure: 30 months.

Closing date: 1 October 2011. Interview date: 18 October 2011.

This offer can be consulted online: http:/-/www.admin.cam.ac.uk/offices/hr/jobs/-vacancies.cgi?job=3D8801 Dr. Olivier Restif Royal Society University Research Fellow Fellow of Robinson College

University of Cambridge Department of Veterinary Medicine Disease Dynamics Unit Madingley Road Cambridge CB3 0ES Great-Britain

Tel: +44 (0)1223 764963 Fax: +44 (0)1223 764667

http://www.vet.cam.ac.uk/research/investigators/-restif.html http://www.robinson.cam.ac.uk/ http://-royalsociety.org/ or226@cam.ac.uk

UCollegeLondon EvoDevo

Research Associate: Molecular developmental studies of the larva of the marine polyclad Maritigrella crozieri, - Ref:1203462

UCL Department / Division

Research Department of Genetics, Evolution and Environment Grade 7 Hours Full Time Salary (inclusive of London allowance) £31,905 - £35,557 per annum

Duties and Responsibilities

A Postdoctoral Research Associate is required to work in the laboratory of Max Telford, to join a team working on related BBSRC and Leverhulme trust funded projects investigating the origins of the Müllers larva of the polyclad flatworms. The project focuses on the tiger flatworm, Maritigrella crozieri which is collected in the Florida Keys. The work will involve standard bioinformatics and molecular biology, in situ hybridisation and embryology.

The work is supported by a BBSRC grant and is funded for 30 months in the first instance.

Key Requirements

The successful applicant will have a PhD (awarded or about to be awarded) in a relevant area. The ideal candidate will have a good knowledge of molecular biology with a special focus on developmental genetics together with a proven track record of high quality research in molecular biology/developmental biology/evolutionary biology. Experience in Nucleic acid extraction (DNA and RNA), PCR and RT PCR, cloning and sequencing PCR fragments, in situ hybridisation, Antibody staining and Microscopy (light and con-focal) is essential.

Further Details

A job description and person specification can be accessed at the bottom of this page.

To apply for this vacancy, please click on the, "Apply Now," button below. Please attach a brief personal statement, explaining how your qualifications and experience make you a good candidate.

If you have any queries regarding the vacancy or application process, please contact Christine Davis at christine.davis@ucl.ac.uk

UCL Taking Action for Equality Closing Date 9 Sep

2011 Latest time for the submission of applications 4.00 pm

Deputy Team Manager Divisional Staffing Office Room 110 Anatomy Building UCL Gower Street London WC1E 6BT Tel: 02076794370 internal:34370

Max Telford

Professor of Zoology Dept Genetics, Evolution and Environment UCL Darwin Building Gower street London WC1A 6BT

m.telford@ucl.ac.uk

UGreifswald MolEvol

Job announcement

University of Greifswald, Zoological Institute Postdoc Position (1.5 years) - Molecular Evolutionary Biology application deadline: October 4th 2011

The Zoological Institute & Museum at the University of Greifswald (Germany) invites applications for a

Postdoc Position (E 13 TV-L) in the field of Molecular Evolutionary Biology

We are seeking a highly motivated candidate to study the genetic mechanisms underlying plastic responses in the butterfly model Bicyclus anynana. The project will involve experiments on phenotypic responses to environmental manipulations (temperature, food stress), and analyses of protein (ELISA) as well as whole-genome gene expression (microarrays / transcriptome sequencing). Visiting our collaborators in The Netherlands and Finland will be possible. The candidate should have a strong background in evolutionary biology. Experience with molecular genetic methods is required and should be detailed in the application. He / she must hold a PhD in Biology or a related field, and English communication skills are essential. The position (TV-L E13) is funded by the German Research Council (DFG) and is limited to18 months. The preferred starting date is January 2012.

The Animal Ecology Group at the University of Greifswald is headed by Prof. Dr. Klaus Fischer and has a long-standing experience in the fields of evolutionary ecology and life-history evolution. The University of Greifswald is committed to equal opportunity in employment and gender equality in its working environment.

Applications should include 1) your CV, 2) a brief statement of your reasons for applying (max. 200 words), and 3) contact details of two academic referees. Applications should be submitted electronically as a single PDF file. Applications for this position are required by October 4th 2011 and should be sent electronically to: Prof. Dr. Klaus Fischer; e-mail: Klaus.Fischer@uni-greifswald.de

For further information see: http://www.mnf.uni-greifswald.de/institute/fr-biologie/zool-institut-museum/tieroekologie.html Prof. Dr. Klaus Fischer Zoological Institute & Museum Greifswald University J.-S.-Bach-Str. 11/12 D-17489 Greifswald

Phone: +49-3834-864266 Fax: +49-3834-864252 http://www.esf.org/thermadapt

klaus.fischer@uni-greifswald.de

UIdaho EvolutionGenomes

Postdoctoral Fellow – Evolution of Genomic Architecture Hohenlohe Lab, Institute for Bioinformatics and Evolutionary Studies University of Idaho

An NIH-funded postdoctoral position is available to study the interactions between genomic architecture and evolutionary processes at multiple biological scales, by developing sophisticated theory and analytical tools for high-throughput sequencing.

Research focus to include one or more of the following: - Develop models of genomic architecture in evolving populations of organisms using coalescent theory and other sophisticated genetic methods, focusing on the interactions among metapopulation dynamics, natural selection, recombination, and epistasis. - Develop models of genomic architecture and its relationship to cellular phenotypes in the evolving population of a cancer tumor, with the goal of understanding tumor progression from an evolutionary genomic perspective. - Develop rigorous analytical tools for turning high-throughput DNA sequencing data into a picture of genomic architecture in evolving populations, relevant to either of the two biological scales above.

Requires: - Ph.D. degree in evolutionary genetics, computational biology, statistics, cancer biology, or related discipline. - Demonstrated ability in developing and implementing mathematical or computational methods in bioinformatics, biostatistics, statistical genetics or similar areas.

Target start date: January 2012 or sooner Lab website: http://webpages.uidaho.edu/hohenlohe/ Questions: hohenlohe@uidaho.edu Please see full announcement and submit application materials at: https://-www.sites.uidaho.edu/AppTrack/Agency/Applicant/-ViewAnnouncement.asp?announcement_no=-12508004698 The University of Idaho does not discriminate against an individual with a disability in regard to job application procedures, the hiring or discharge of employees, employee compensation, advancement, job training, and other terms, conditions, and privileges of employment. Based on this commitment, various job duties on the job description have been analyzed to be essential to this position. Employers can continue to require all applicants and employees, including those with disabilities, to be able to perform the essential, non-marginal functions of the position. Reasonable accommodations may be provided to employees with disabilities to enable them to perform the essential elements of this position. Marginal job functions are ones that an employer may transfer to other individuals or not require to be performed by an individual with a disability.

Paul Hohenlohe Institute for Bioinformatics and Evolutionary Studies Departments of Biological Sciences and Statistics University of Idaho http://webpages.uidaho.edu/hohenlohe hohenlohe@uidaho.edu

UKentucky EvolutionaryGenomics

Postdoc in Evolutionary Genomics at the University of Kentucky

The Linnen Lab at the University of Kentucky is seeking a full-time postdoctoral researcher to direct research on comparative genomics in * Neodiprion*, a genus of plant-feeding insects. Specifically, we are looking for someone to (1) assemble and annotate genomes/transcriptomes and (2) utilize these data to draw inferences regarding the evolutionary history of this group. This project dovetails with ongoing work in the lab, with the shared goal of unraveling the genetics, ecology, and demography of adaptation and speciation in natural populations. For additional details about current research in the lab, please visit our website: http://www.uky.edu/ ~ cli242/Linnen_Lab/Home.html . Requirements for the position include: a PhD in a related discipline (e.g., evolution, genetics, genomics, computational biology, etc.) and demonstrated experience with generating and analyzing next-generation sequence data. The ideal candidate will be independent, organized, and motivated and have a keen interest in utilizing comparative genomic data to address fundamental questions in evolutionary biology. Importantly, we are also looking for someone who is personable and enthusiastic about working in a collaborative environment.

Interested candidates should send a letter describing research interests and experience, a full CV, and contact information for three references. Applications and all queries should be sent to catherine.linnen@uky.edu. Applications will be accepted until a suitable candidate is found. Start date is flexible and funding is guaranteed for 1 year, with subsequent years renewable depending on progress.

Catherine R. Linnen, Ph.D. Assistant Professor Department of Biology University of Kentucky 200A Thomas Hunt Morgan Building Lexington, KY 40506 website: http://www.uky.edu/ ~ cli242/Linnen_Lab/-Home.html Phone (lab): 859-323-3160 Phone (cell): 617-970-7717

clinnen@gmail.com clinnen@gmail.com

UlaReunion Bioinformatics ComparativeGenomics

Background: Reunion Island is an outermost European region located in the South Western Indian Ocean. University of La Réunion is implementing a capacity building program, so called Run-Emerge, funded by the program Capacity of FP7 RegPot1-2010 that aims at fostering its research potential on emerging infectious diseases in the South Western Indian Ocean region. This program is multidisciplinary and involves local and European research teams working on ecology, entomology, microbiology, immunology, emerging plant pathogens, phytochemistry and social sciences.

The present call aims at identifying young talented researchers to be involved in the ongoing research programs on Emerging Infectious Diseases in Reunion Island. These researchers are also expected to generate program synergies in the frame of this multidisciplinary project. Gross monthly salary 3218.87euro (This salary includes health insurance, retirement contribution and other social security contributions, but not income tax); Net salary 2591.56euro .

Application deadline: 30/09/2011

Submission of application: Applicants are invited to send detailed CV, a covering letter and 3 references to: - Prof. J. Smadja (smadja@univ-reunion.fr) - Prof. K. Dellagi (koussay.dellagi@ird.fr) - Marion Maire (marion.maire@univ-reunion.fr)

Selection procedure: A pre-selection stage will be conducted by the selection committee. Pre-selected candidates will be invited to an interview. Candidates from outside Reunion Island will be interviewed by visio-conference.

Start of contract: The selected scientists will be invited to start their research activities in La reunion before January 15th 2012, at the latest.

Position 1 : Post-doctoral position in Entomology/parasitology:investigating feasibility of Incompatible Insect Technique (IIT) as a means to control mosquito natural populations.

A 2-year position in entomology/parasitology is available at CRVOI. The recruited scientist will investigate the feasibility of a Wolbachia-based vector control strategy targeting Culex pipiens quinquefasciatus mosquito.

Candidates should be specialized in microbiology of arthropods with a strong experience in molecular evolution.

The recruited scientist will have to standardize mosquito mass rearing techniques and test, in large cages experiments, the sterilization of females from natural population by incompatible males. She/he will follow the penetrance of Cytoplasmic Incompatibility (CI) phenotype together with the frequency variations of distinct Wolbachia genotypes through molecular genotyping. In addition, she/he will have to construct mosquito lines expressing male-biased progenies. An experience in mosquito rearing (and especially C. p. quinquefasciatus) will be highly appreciated.

The young researcher will be based at CRVOI (www.crvoi.org) on Reunion Island and will work under the supervision of Dr. Pablo Tortosa and Dr. Louis Clément Gouagna.

The successful candidate must have a PhD.

For more details on the position, contact Dr Pablo Tortosa: pablo.tortosa@univ-reunion.fr

Position 2 : Post-doctoral position in virology: Investigating viral pathogens associated to wild fauna and ectoparasites in South Western Indian Ocean

A two year position in virology is available at CRVOI (www.crvoi.org) on Reunion Island to investigate viruses prevalent in the wild fauna from Madagascar, the archipelagos of the Comoros, Seychelles, and Mascarenes (Mauritius and Reunion Island).

CRVOI is leading a multidisciplinary research programme (wild fauna pathogens inventory project) jointly funded by EU, regional and national funds. This programme aims at assessing the role of sedentary and migrant wild fauna in the emergence of infectious diseases potentially impacting human people. In this programme, our group is in charge of the work package "virology". The young researcher to be recruited will be appointed to this work package. She/He will benefit from a large sample collection originating from the SWIO region.

She/he will use standard techniques in virology in a BSL3 Lab as well as molecular detection techniques (degenerated or multiplex PCR, etc.) to investigate tissue samples from wild fauna (including bats, rodents, birds and arthropods). She/he will bring to the research team her/his expertise in systematic virology and replication mechanisms of RNA viruses.

The researcher will be based at CRVOI (www.crvoi.org) on Reunion Island and will work within the team headed by Dr Herve Pascalis. She/he will contribute to the capacity building objectives of the RUN-EMERGE programme.

Applicants should have a PhD in Virology. Validated expertise in virus culture, molecular biology and phylogeny is required. A previous post-doctoral experience in tropical medical virology or emerging infectious diseases will be appreciated.

For more details on the position contact Dr Hervé Pascalis

— / —

UMichigan EvolBiol

Dear Colleagues:

I am pleased to announce a new opportunity for postdoctoral fellowship support at the University. U-M recently joined in a collaborative partnership with the University of California to expand postdoctoral fellowship opportunities at the University of Michigan.

Through the new President's Postdoctoral Fellowship Program, the University of Michigan offers postdoctoral research fellowships in science, technology, engineering, mathematics (STEM) and social, behavioral, and economics (SBE) fields, coupled with faculty mentoring, professional development and academic networking opportunities. Details about the program are available at http://sitemaker.umich.edu/um-postdocs. Most importantly, we view these postdoctoral fellowships as providing an exceptional opportunity to recruit potential new faculty to the University by offering them a combined postdoc and tenure track faculty appointment.

The University seeks applicants whose research, teaching and service will contribute to diversity and equal opportunity in higher education. Each applicant will need to specify a faculty mentor at the University of Michigan; this faculty mentor must be contacted in advance of application and express a willingness to mentor the applicant if she or he is selected. Faculty are encouraged to identify emerging scholars they would be interested in sponsoring for this fellowship program and as potential faculty colleagues, and directly inform them about this opportunity. It is also possible to plan for a potential candidate to do a postdoc in one academic department, but to take up a tenure-track position in another; in that case, both departments should be identified in the application process. Please note that the President's Postdoctoral Fellowship Program will provide funds for salary, benefits and research. Up to nine post-doctoral positions will be available annually; particularly outstanding candidates may be considered simultaneously (or subsequently) for tenure-track faculty appointments.

Applications will be submitted in conjunction with the University of California President's Postdoctoral Fellowship Program. The online application is available at: http://sitemaker.umich.edu/um-postdocs after September 1, 2011. All application materials must be received by November 1, 2011.

Yours truly,

Phil Hanlon Provost and Executive Vice President for Academic Affairs

Patricia J. Wittkopp, Ph.D. Associate Professor Ecology and Evolutionary Biology Molecular, Cellular and Developmental Biology 1061 Natural Science Building University of Michigan Ann Arbor, MI 48109-1048 tel: 734.763.1548 (office); 734.647.5483 (lab) fax: 734.763.0544 www.umich.edu/ ~ pwlab wittkopp@umich.edu

UMichigan EvolutionaryBiol

MICHIGAN SOCIETY OF FELLOWS

Horace H. Rackham School of Graduate Studies University of Michigan Ann Arbor, Michigan 48109-1070 announces

FELLOWSHIPS: 2012-2015 IN THE HUMANITIES, ARTS, SCIENCES, AND PROFESSIONS

The Michigan Society of Fellows was founded in 1970 through grants from the Ford Foundation and Horace H. Rackham School of Graduate Studies for the purpose of promoting academic and creative excellence in the humanities, the arts, the social, physical, and life sciences, and in the professions. In 2007, the Mellon Foundation awarded a grant to add four Mellon Fellows annually in the humanities, expanding the number of fellowships awarded each year from four to eight. The objective of the Society is to provide financial and intellectual support for individuals holding advanced degrees in their fields, who are selected for their outstanding achievement, professional promise, and interdisciplinary interests. We invite applications from qualified candidates for three-year fellowships at the University of Michigan.

Candidates should be near the beginning of their professional careers. Those selected for fellowships must have received the Ph.D. degree or comparable artistic or professional degree between June 1, 2009, and September 1, 2012. Fellows are appointed as Assistant Professors in appropriate departments and as Postdoctoral Scholars in the Michigan Society of Fellows. They are expected to be in residence in Ann Arbor during the academic years of the fellowship, to teach for the equivalent of one academic year, to participate in the informal intellectual life of the Society, and to devote time to their independent research or artistic projects. This is not an artist-in-residence program but rather an opportunity to develop one's work in conversation with fellows from a range of disciplines during the three years of the fellowship. Applications from degree candidates and recipients of the Ph.D. or comparable artistic or professional degree from the University of Michigan will not b e considered.

Applications will be reviewed by Society members and University faculty. Final selections will be made in late January by Senior Fellows of the Society. Eight Fellows

will be selected for three-year terms to begin September 1, 2012. The annual stipend will be $52,000.

The online application is available at: http://societyoffellows.umich.edu email: society.of.fellows@umich.edu Application Deadline: October 3, 2011

An Equal Opportunity Program

Patricia J. Wittkopp, Ph.D. Associate Professor Ecology and Evolutionary Biology Molecular, Cellular and Developmental Biology 1061 Natural Science Building University of Michigan Ann Arbor, MI 48109-1048 tel: 734.763.1548 (office); 734.647.5483 (lab) fax: 734.763.0544 www.umich.edu/ ~ pwlab wittkopp@umich.edu

UMinnesota Duluth SeedEvolution

*Postdoctoral Associate, Project Baseline: a seed bank for the study of evolution. *

We seek a 75% time Postdoctoral Associate in the Department of Biology at the University of Minnesota Duluth to participate in a collaborative project to create a new resource for detecting evolutionary change in plants. The Postdoctoral Associate will be primarily located in Duluth, MN (http://www.duluthmn.travel/-request-info/2011/duluth-in-the-news.pdf) but will coordinate with the PIs and Field Crew Managers to conduct seed collections in three US regions in the west (Susan Mazer, UCSB), midwest (Julie Etterson, U of MN Duluth and Ruth Shaw U of MN Twin Cities), and east (Steve Franks, Fordham University). The appointment will initially be for one year and may be renewed for a total of up to 36 months; the preferred start date is no later than November 15, 2012. The base salary is $37,333 (75%-time $28,000) and includes healthcare and other benefits.

Project Baseline:

The goal of this project is to create a nationwide seed bank of wild populations to be preserved for the next 10-50 years at the National Germplasm Conservation Lab in Fort Collins, CO. This resource will enable assessments of both rapid and long-term responses to climate change and facilitate investigation of the genetic basis of adaptation. We will also create a GIS database of population and environmental information that will be useful in a wide variety of ecological and conservation applications. For more information on the project, see Franks et al. 2008, The resurrection initiative: Storing ancestral genotypes to capture evolution in action. BioScience 58: 870-873.

Job responsibilities:

The Postdoctoral Associate will be responsible for promoting and developing the Project Baseline seed collections. The Postdoctoral Associate will be expected to communicate about the project to the general public and the scientific community and to encourage public participation through presentations, informational materials to be made available on-line, workshops, publications, a newsletter, and the Project Baseline web page. The Postdoctoral Associate will be responsible for designing seed collections including: obtaining species lists for appropriate sites, identifying populations within these sites through communication with site managers, finalizing collection lists, obtaining collecting permits, and developing collaborative relationships with on site individuals who can monitor plant phenology, and developing and testing specific protocols for collecting environmental data, monitoring flowering phenology, and collecting and shipping seeds. The Postdoctoral Associate will establish relationships with the PIs and participate in training the seed collection crews. Data will be sent from field crews to the Postdoctoral Associate who will develop databases compatible with GRIN (National Genetic Resources Program) and use GIS technology to produce maps that report locations of seed collection sites; record climate data; and archive other data associated with project development. Effective communication with herbarium and Germplasm Conservation Lab staff will be maintained to assure that samples are properly vouchered and preserved. This position offers opportunities to design an independent project compatible with Project Baseline's goals and seek additional funding to increase the position to full-time, as well as to participate in other career-development activities.

Qualifications:

Essential qualifications include Ph.D. and three years experience in plant ecology, botany, or evolution or other relevant fields; strong organizational, writing, and field skills, including GIS, database development, vegetation and environmental sampling, plant identification, excellent writing and communication skills. Preferred qualifications include experience in a long-term research and outreach programs and experience writing research proposals. Candidates with career interests in research and/or teaching at all types of institutions or working in environmental management through governmental agencies, consulting firms or nonprofit organizations are all welcome.

Application:

Applications should include a cover letter with current contact information, CV, summary of research interests and skills, and the names and addresses of three referees. The University of Minnesota requires that you apply online for this position. For a complete position description and information on how to apply online, visit http://employment.umn.edu/applicants/-Central?quickFind=96634, and search for Job Requisition #173282. Complete applications will be reviewed beginning October 15, 2011. Applications will be accepted until position is filled. The University of Minnesota is an equal opportunity educator and employer.

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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

UMinnesota Duluth SeedEvolution DateCorrection

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UOregon Bioinformatics

Postdoctoral Research Associate Institute of Ecology & Evolution Posting: 11377 Location: Eugene Closes: Open Until Filled

Jessica Green (http://biology.uoregon.edu/-people/green/) and Brendan Bohannan (http://-biology.uoregon.edu/ceeb/faculty_pages/Bohannan/) are currently seeking a bioinformatics postdoctoral researcher to explore fundamental questions in microbial ecology and evolution. Applicants should have a PhD with extensive training using bioinformatics to understand the ecology and/or evolution of complex biological communities, and strong writing skills. The ideal candidate will have experience developing and applying quantitative community and population ecological methods to the analysis of environmental sequence data and next-generation sequence data.

The successful candidate will play a key role in the Biology and Built Environment (BioBE) Center (http:/-/biobe.uoregon.edu/), funded by the Alfred P. Sloan Foundation. The BioBE Center is training a new generation of innovators to study the built environment microbiome - the diversity of indoor microbial life, their genetic elements and their interactions. The vision of this national research center is to understand buildings as complex ecosystems and to explore how architectural design mediates urban microbial ecology and evolution. For a description of partner projects see http://www.microbe.net/ . The position is available for 1 year with the possibility for renewal depending on performance. The start date is flexible. Please email questions regarding the position to Jessica Green (jlgreen@uoregon.edu).

To apply:

A complete application will consist of the following materials:

* A brief cover letter explaining your background and career interests * CV (including publications), * Names and contact information for three references.

Submit materials to ceebjobs@uoregon.edu. Subject: Posting #11377

To be assured full consideration, applications must be received by October 26, 2011, but position will remain open until filled.

Women and minorities encouraged to apply. We invite applications from qualified candidates who share our commitment to diversity. EO/AA/ADA institution committed to cultural diversity.

http://hr.uoregon.edu/jobs/ CEEB Job Applications <ceebjobs@uoregon.edu>

UOxford ExperimentalEvolution

Postdoctoral Research Assistant Department of Zoology, University of Oxford Grade 7: £29,099 - £35,788 p.a.

A 3-year postdoctoral position is available to study the experimental evolution of antibiotic resistance in Pseudomonas as part of an ERC funded project led by Dr Craig MacLean. This project will primarily involve using large-scale selection experiments and fitness assays combined with extensive sequencing to investigate how ecology and molecular biology interact to drive the evolution of antibiotic resistance across a range of species of Pseudomonas. This position is ideal for highly motivated and ambitious researchers with experience in experimental evolution who would like to work on a large project that will investigate fundamental evolutionary problems related to antibiotic resistance. This

project is funded at a high level and the postholder will be expected to take an important leadership role in the development of this project. The post will be based in a dynamic and productive microbial evolution research group within the Department of Zoology that brings together experimentalists and theoreticians with a wide range of interests in evolutionary biology. The successful applicant must have a degree/PhD in a Biology or related subject.

Informal enquiries with CV should be sent to Dr. Craig MacLean craig.maclean AT zoo.ox.ac.uk

Only applications received before midday on 5 October 2011 can be considered. Further details of this post, including application procedures, can be found at https://www.recruit.ox.ac.uk/pls/hrisliverecruit/erq_jobspec_version_4.display_form craig.maclean AT zoo.ox.ac.uk

UOxford ExperimentalEvolution 2

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Informal enquiries with CV should be sent to Dr. Craig MacLean craig.macleanATzoo.ox.ac.uk

Only applications received before midday on 5 October 2011 can be considered. Further details of this post, including application procedures, can be found by searching for job reference 100977 at http://www.ox.ac.uk/about_the_university/jobs/research/ Craig Maclean <craig.maclean@zoo.ox.ac.uk>

UPMC Paris MicrobialEvolution

We are offering a position for a 18 months postdoctoral fellowship in Paris (France, Pierre and Marie Curie University) in evolutionary bioinformatics to study the evolution of pathogenicity in microbial and viral genomes, starting before June 2012. This position particularly concerns recently graduated candidates, for a first postdoctoral experience. The postdoctoral fellow will work with Eric Bapteste and Philippe Lopez, and 3 PhD students, all specialized in the study of microbial evolution by network- and forest-based methods.

More precisely, his/her research will focus on the the detection of candidate genes involved in the emergence and evolution of pathogenic agents, by identifying new gene families of bacterial and viral pathogenecity with bioinformatic network- and forest-based approaches.

This research will exploit the hypothesis that some gene families involved in pathogenicity show a comparable molecular evolution, genomic distribution, and topological structure in gene networks and forest of gene trees. Therefore, if new sequences (e.g. from the environment or from genome projects) and new genes and gene families show comparable topologies, molecular evolution, and genomic distribution with respect to gene families already known to be involved in pathogenicity, these new sequences may correspond to candidate genes of pathogenicity.

Forest and network reconstructions and the analysis of topological properties in these graphs are already mastered in the lab. Based on our pre-existing methods, the postdoctoral fellow will further develop computational and statistical tools (i) to automate the detection of candidate genes of pathogenicity in massive molecular datasets, (ii) to detect what environments and genomes may constitute reservoirs of genes of pathogenicity, and (iii) to identify and classify novel environmental variants of known genes of pathogenicity. In silico methods developped during this postdoctoral training should be generic, to be readily applied to the search and analyses of other types of genes (e.g. involved in parasitism,

symbiosis, etc.) in massive datasets, to provide the evolutionary community with fast and efficient tools to better understand the dynamic and evolution of microbial genomes.

The postdoctoral fellowship will earn a monthly salary of at least 2, 100 euros, and benefit from an additional 2, 250 euros to attend national and international conferences. He/she will have numerous opportunities to collaborate with (i) graph theorists and statisticians (Michel Habib, François-Joseph Lapointe), (ii) microbial evolutionary biologists (James McInerney, Christopher Lane, Tal Dagan, Yan Boucher, William Martin) and (iii) philosophers of biology (Richard Burian, Maureen O'Malley, Frédéric Bouchard), regularly visiting our parisian lab.

Key-words: network, forest, evolution, statistics, metagenomics, phylogenetics, microbiology, methodological development

Interested candidate must contact: Philippe.lopez@snv.jussieu.fr or Eric.bapteste@snv.jussieu.fr

ebaptest@snv.jussieu.fr

UppsalaU Bioinformatics

A Postdoctoral fellow in bioinformatics - engineering is available at the Department of Medical Biochemistry and Microbiology, IMBIM, Uppsala University, Sweden. The position can be filled as soon as possible, for a period of two years, and will be associated with SciLifeLabs.

SciLifeLab Uppsala: Science for Life Laboratory Uppsala is a center that joins together a group of prominent researchers from Uppsala University with the vision to become an internationally leading center that develops, applies, and provides access to large-scale technologies for molecular biosciences with a focus on translational medicine and on evolutionary and systems biology. The center is composed of three technology platforms in genomics, proteomics and comparative genetics and two research programs in evolutionary and medical biology.

Duties: The candidate will work with bioinformatics in a joint research environment of SciLifeLab and IMBIM. The candidate will join a newly formed computational biology group. The focus of this group is to provide answers to fundamental biological questions through the development of complex algorithms that analyze large amounts of DNA and RNA data, in close collaboration with other groups at SciLifeLab as well as with other national and international collaborators. The position may also include teaching at all levels and supervision of masters- and graduate students.

Qualifications required: To be eligible for this position, the applicant must hold a Ph.D degree. The ideal candidate will have a solid engineering background (physics, informatics, electrical engineering, mathematics, or related field), coupled with strong interest in biological sciences, in particular the analysis of large genomic and transcriptomic data sets. Applicants must have received their Ph.D within the past 3 years from the application deadline. Experience in computational biology is a plus, but not a must. The candidate should be proficient in one or more programming languages (C++, Java) and have experience in software development involving complex algorithms. Excellent communication skills are required, since the candidate will collaborate with scientists of very different backgrounds. Excellent spoken and written English required.

The deadline for application is September 26, 2011. The full announcement - including on-line submission form - can be found at http://www.personalavd.uu.se/-ledigaplatser/2110postDOC.html .

Inquiries regarding the position should be made to Manfred Grabherr, e-mail manfred.grabherr@imbim.uu.se, +4618-471 4248.

More information about ScilifeLabs can be found at http://scilifelab.se/ Information about the Grabherr group can be found at http://www.imbim.uu.se/-Research/+Genomics/Grabherr_Manfred/ "Marc P. Hoeppner" <mphoeppner@gmail.com>

USheffield AvianEvolution

Two positions, one a Postdoctoral RA (three years) and the other a Graduate RA (two years), are available in Dr Jon Slate's research group (http://www.jon-slate.staff.shef.ac.uk/) at the University of Sheffield. The positions are funded by a recently awarded BBSRC grant and are an outstanding opportunity to apply cutting edge genomics technologies (ultra-high throughput sequencing and SNP genotyping) to study the genetic basis of variation in sperm-related traits in an evolutionary genetics model organism, the zebra finch (Taeniopygia guttata). The project lead investigators are Jon Slate, Terry Burke and Tim Birkhead.

Postdoctoral Position.

We are looking for somebody with a track record of publishing in leading journals and skills in one or more of the following areas: evolutionary quantitative genetics, next-generation sequencing-based genomics, QTL mapping, genomewide association studies. The postdoc will lead the analyses on a project that seeks to identify the genes responsible for heritable variation in sperm morphology and motility in the zebra finch (see Mossman et al. 2009 63:2730-2737). In this project we will construct and use a 10K Illumina SNP chip to map QTL for sperm traits in a pedigreed captive population of zebra finches, where it is known the focal traits are highly heritable. Results will be validated by typing a wild population. In addition, Illumina HiSeq sequencing will be carried out on cDNA obtained from testes of males in selection lines for long and short sperm. Genotyping and sequencing will be outsourced, and so the bulk of the work will involve data analysis. This project builds on zebra finch genomics work we have recently been conducting (e.g. Stapley et al. 2008 Genetics 179:651-667, Stapley et al. 2010 Genome Research 20:496-502, Warren et al. 2010 Nature 464: 757-762)

The closing date is 7th October 2011. For further details and online applications see http://-www.sheffield.ac.uk/jobs/index.html, quoting job reference number UOS003263. The salary starts at £28,139 per annum.

Graduate RA position

We are looking for a graduate RA who can work independently and who has an interest in evolutionary biology. The main activities in the post will involve the maintenance of selection lines, database management, dissections, microscopy work to measure sperm morphology and computer assisted semen analysis (CASA) to measure sperm motility. Training will be given in the more technical aspects of the work. The Grad RA will work closely with the postdoc.

The closing date is 11th October 2011. For further details and online applications see http://-www.sheffield.ac.uk/jobs/index.html, quoting job reference number UOS003274. The salary is in the range 23,661 - £25,101 per annum.

Dr Slate's group is based within the vibrant Department of Animal & Plant Sciences at the University of Sheffield. In the latest Research Assessment Exercise (RAE 2008), Biological Sciences at Sheffield was ranked joint 3rd in the UK based on average quality score and 3rd in the UK based on the proportion of 'world-leading' (4*) and 'internationally excellent' (3*) research activity (Source: Times Higher Education). It was recently ranked 7th best Environment/Ecology research institution in the world by Thomson Scientific. Sheffield is a fantastic place to live, situated on the edge of the Peak District National Park (http://-www.visitpeakdistrict.com/). It is also one of the most affordable cities in the UK and has a good music, arts and culture scene.

Both positions are available from January 2012. The Postdoc position is funded for three years and the Grad RA position for two years. I welcome informal enquiries (j.slate@sheffield.ac.uk).

Dr Jon Slate Dept. Animal & Plant Sciences University of Sheffield http://www.jon-slate.staff.shef.ac.uk/ j.slate@sheffield.ac.uk j.slate@sheffield.ac.uk

UStAndrews CricketEvolGenomics

A 3-year postdoctoral position in developmental and evolutionary genetics is available in Nathan Bailey's lab at the University of St. Andrews.

Project Description: The postdoctoral researcher will work on a NERC-funded project examining genomic and transcriptomic changes underlying rapid evolution in the wild. The project is based at St. Andrews and is a collaboration with Michael Ritchie (St. Andrews, UK) and Marlene Zuk (UC Riverside, USA). A contemporary morphological mutation eliminates sound-producing structures on male cricket wings in a wild population of the field cricket Teleogryllus oceanicus. The primary role of the postdoc will be to perform mapping crosses, genome and transcriptome sequencing, and RAD-mapping with three main goals: (1) identify markers associated with the mutation and construct a linkage map to pinpoint the causative mutation(s), (2) identify candidate genes associated with the mutant morphology, and (3) examine the cascade of transcriptomic changes resulting from the mutation(s).

Qualifications: A PhD (or soon to be awarded) in a relevant field is required. The ideal candidate will have molecular genetics experience and a strong bioinformatics background with evidence of suitable programming and analytical skills. A strong publication record for the applicant's career stage and a commitment to dissemination of results are required. A significant portion of the postdoc's role will be to organize day-to-day laboratory activities related to the project, work with technical staff at St. Andrews, and liaise with

the NBAF sequencing facilities at the Universities of Edinburgh and Liverpool, so the candidate should also possess excellent interpersonal skills. The position is open to candidates of any nationality.

Career Development: The postdoc will be encouraged to develop additional lines of research suited to his/her interests. The project is collaborative, so there is scope for interactions with the co-PIs plus travel to collaborating laboratories.

Informal Enquiries: Please contact Nathan Bailey (nwb3@st-andrews.ac.uk) with any informal enquiries. Further information about the lab is available at: www.flexiblephenotype.org . Application: Please apply through the University of St. Andrews HR website: https://www.vacancies.st-andrews.ac.uk/welcome.aspx and search for job reference number ML1042. Applications should include a cover letter, CV, a brief (~1 page) statement detailing your research interests and career goals, and two letters of reference.

Closing date: 07 October 2011

nwb3@st-andrews.ac.uk

UTexas Arlington EvolutionaryGenomics

Postdoc in Evolutionary Genomics, UT Arlington

A postdoctoral position is available in the laboratory of Esther Betran. The NIH funded research in the lab focuses on the origin of new genes and their role in genome evolution.

Several projects are under development in the lab to answer essential questions in the field of new gene origination: functional and evolutionary study of young retrogenes, retrogenes regulatory regions, patterns on the formation of new genes, gene duplication as a means of intralocus sexual conflict resolution and study of the genes domesticated from transposable elements and the path to domestication. For additional information about the group and the research, please visit the lab webpage at http://wweb.uta.edu/faculty/betran . We seek a highly trained, enthusiastic, innovative postdoctoral researcher with ability to think independently and to work cooperatively. Candidates should have a Ph.D. degree in population genetics, computational biology, molecular evolution or related disciplines with desire to conduct Drosophila comparative genomic and population genomic analyses. Ideally the candidate should already have some computer programming and statistics skills and the motivation to learn.

The salary will be competitive and will commensurate with qualifications and experience.

The Betran lab enjoys vibrant interactions with other members of the Genome Biology Group (http://-www.uta.edu/biology/genome_group/research.htm). Additionally, the lab is benefiting greatly from the Genomics Facilities on campus and a new lab and office spaces in the new Engineering and Science Research Building.

The University of Texas at Arlington, the second largest institution in The University of Texas system, is a full service research and teaching university with over 30,000 students. The University is located in the city of Arlington in the center of the Dallas-Ft. Worth Metroplex, one of the leading centers of aerospace, electronics, and telecommunications activity in the U.S. Excellent recreational, entertainment, and cultural facilities, major airport, modern shopping complexes and professional sports organizations are located in Arlington and the surrounding area. Other of the main advantages of the Metroplex area is the inexpensive cost of living.

To apply for this position please send a CV, a letter of interest and names of three potential referees to betran@uta.edu.

UTA is an equal opportunity/affirmative action employer.

Esther Betran, Ph.D. Associate Professor Biology Department Box 19498 University of Texas at Arlington Arlington, TX 76019

Office Phone (817) 272 1446 Lab Phone (817) 272 7178 Fax (817) 272 2855 E-mail: betran@uta.edu http://wweb.uta.edu/faculty/betran/ "Betran, Esther" <betran@uta.edu>

UTexasAustin EvolutionaryGeneticModels

POSITION TITLE: Postdoctoral Researcher

POSITION SUMMARY: The Center for Computational Neuroscience at NeuroTexas Institute at St. David's HealthCare seeks a highly motivated individual who is interested in the genetics and genomics of glioblastoma multiformae (GBM). Of particular inter-

est, is the development of evolutionary-genetic models suitable for studying the dynamics of mutations within growing GBM tumors and related bioinformatic approaches for model validation using DNA/RNA sequence data from GBM tumors.

NeuroTexas Institute is a highly multidisciplinary clinical, research and educational institute affiliated with St. David's HealthCare in Austin, TX. The Institute enjoys an open and highly productive relationship with the adjacent University of Texas at Austin. This particular research is part of an ongoing collaboration with Claus Wilke at UT - Austin, and there may be opportunities for conducting novel DNA/RNA sequencing studies of tumors specimens collected at the Institute.

The two-year position is available beginning January 1, 2012. Candidates must have completed their PhDs in computational biology, computer science, mathematics or physics. Ideal candidates will be familiar with evolutionary theory and modeling, DNA/RNA sequence analysis and bioinformatics, and systems biological approaches. Previous knowledge and experience with cancer genomics and modeling is an additional plus.

Please submit a letter of intent, curriculum vitae and the names and addresses of two references to:

Dr. Matthew C. Cowperthwaite Center for Computational Neuroscience NeuroTexas Institute at St. David's HealthCare 1015 East 32nd Street, Suite 404 Austin, Texas 78705 E-mail: matthew.cowperthwaite@stdavids.com

Matthew.Cowperthwaite@stdavids.com

UTurku PlantHerbivoreCoevolution

Postdoctoral position at the Section of Ecology, University of Turku

PLANT-HERBIVORE COEVOLUTION IN A FRAGMENTED LANDSCAPE

A postdoctoral position available at the Section of Ecology, Department of Biology, University of Turku (Finland) as part of a project investigating the coevolutionary dynamics of a perennial herb (Vincetoxicum hirundinaria) and its specialist herbivores in a fragmented archipelago landscape. We currently focus on studying how the genetic consequences of fragmentation influence plant-herbivore coevolution. We investigate how the effects of inbreeding, levels and distribution of genetic variation, and third trophic-level interactions influence plant-herbivore co-evolution. At the moment, our research group consists of two senior researchers, one postdoctoral researcher, two PhD students and two MSc students. Currently we are seeking to recruit a postdoctoral researcher to start in January 2012 or on agreement.

We offer - Funding for two years (provided by the Academy of Finland) - Interesting research project with abundant background information on research methods and biology of the species - Opportunity to develop research questions of your choice - Inspiring research team with long-term experience in the study system and research areas - Beautiful fieldwork environment - An opportunity for research visits at the University of Oxford and ETH Zurich

We seek a highly motivated researcher with a PhD in ecology, evolutionary biology or related field. The candidate should have a strong interest in evolutionary ecology, be fit for fieldwork, and have good skills in experimental design, statistical analysis, and scientific writing. Knowledge and skills of population genetics and molecular techniques will be an advantage. Send your application to Roosa Leimu (roosa.leimu@plants.ox.ac.uk) by 30th October 2011. The application should include a cover letter explaining your interests and suitability for the position, including a short summary of your previous research, CV with list of publications, and name and contact information of two referees. Send your application preferably as a single pdf file. For further information contact roosa.leimu@plants.ox.ac.uk

Roosa Leimu <roosa.leimu@plants.ox.ac.uk>

UWisconsin Madison PopulationGenomics

A postdoctoral position is available in the newly formed research group of John Pool, with potential start dates between October and January, at the University of Wisconsin-Madison.

Potential projects could include: * Analysis of Drosophila population genomic data (>100 new D. melanogaster genomes are now available!) * Development of new statistical methods for population genomic data (e.g. local adaptation, population history, demography vs. selection). * Identifying the genetic basis of

specific adaptive differences between D. melanogaster populations, especially altitude adaptation. * Your own interests and ideas.

As a new faculty member, I can offer you plenty of individual attention, up-to-date training in population genomics, and a first-hand understanding of the current faculty job market. I encourage postdocs to develop as independent scientists, and I will support you in putting together a research program that you can carry beyond this appointment.

UW-Madison offers a superb scientific environment, with colleagues in population genetics and evolutionary genomics including David Baum, Sean Carroll, Cameron Currie, Colin Dewey, John Doebley, Audrey Gasch, John Hawks, Chris Hittinger, Carol Lee, Lawrence Loewe, Bret Payseur, Nicole Perna, and Professor Emeritus James Crow.

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

The ideal candidate would have a strong background in population genetics, including statistical methods, and experience with computer programming. Applicants seeking to strengthen their background in some areas are also welcome: candidates could range from a population geneticist with some experience in Perl and R, to an experienced programmer or statistician with less prior experience in population genetics. Applicants should send a statement of interest, CV, and contact information for three references. Applications and any questions should be directed to jpool@wisc.edu

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

jpool@wisc.edu

UWyoming ConservationBiol

Berry Postdoctoral Fellowships

Berry Postdoctoral Fellowships are intended for outstanding ecologists or evolutionary biologists whose research is motivated by issues in conservation biology. Applicants must have a faculty sponsor from the Department of Zoology and Physiology, and secondary sponsor from the same department or from another department at the University of Wyoming. The initial fellowship period is one year, renewable for a second year contingent on performance. Berry Fellows will offer a one-credit graduate seminar during their first year to provide the opportunity to gain teaching experience and to promote interactions with graduate students. Starting date is negotiable, but requires having a doctoral degree in hand and needs to begin by August 2012.

Berry Fellows will receive an annual stipend of $35,000 and a research fund of $7,000 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. In consultation with the sponsor, applicants need to arrange for a second faculty sponsor. Once sponsors are arranged, the applicant needs to submit a two-page research proposal (including the names of their primary and secondary faculty sponsors), a CV, three outside letters of recommendation, and a letter of support from their primary faculty sponsor to the Berry Fellowship committee <cbenkman [at] uwyo.edu< http://uwyo.edu> > by 1 November 2011.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.uwyo.edu/carlinglab (p) 307.766.6169

mcarling@uwyo.edu

UWyoming PlantEvolutionaryGenetics

Agroecological annotation of gene function and network characterization in Brassica rapa. One postdoctoral position in Evolutionary Genetics is available to study in the lab of Cynthia Weinig at the University of Wyoming. The position is associated with a five-year multi-investigator NSF project that includes collaborators from Dartmouth College, Kansas State University, and University of California-Davis. The overarching aims of this project are to 1) annotate shade-avoidance genes using diverse genotypes and agroecologically relevant conditions in order to understand variability in yield, and 2) elucidate the shade-avoidance network via computational methods that predict plant archi-

tecture from complex genotypes and that are applicable to other traits. These objectives are highly complementary in that phenotypic and environmental data collected to annotate gene function can be used with genetic regulatory information as inputs to develop systems biology models of shade avoidance.

Preference will be given to candidates with a strong background in evolutionary genetics, particularly quantitative genetics, and candidates with either molecular genetic or modeling experience. The position offers opportunities to learn new measurement and analytical techniques in alternative disciplines through collaboration with other labs. Activities of the different labs will include function-value trait characterization, quantitative-genetic analysis and QTL mapping in RILs and natural accessions of B. rapa, fine-scale mapping and transgenic rescue to clone QTL, RNAseq in lab and field settings, and development and dissemination of B. rapa genetic resources for enhancing K12 and undergraduate education. In addition, the position requires data analysis, publication of manuscripts and participation in workshops on career development. Applicants should send a Curriculum Vitae, a brief letter stating specific research interests, research accomplishments, and future research objectives as well as the names and contact information for three professional references as a single pdf file to Cynthia Weinig (cweinig@uwyo.edu). A Ph.D. is required by the time the successful applicants start a position. Review of applications will begin Nov. 1 and continue until suitable candidates are identified. The start date is negotiable and salary will be competitive with full benefits.

The University of Wyoming is committed to diversity and endorses principles of affirmative action. We acknowledge that diversity enriches and sustains our scholarship and promotes equal access to our educational mission. We seek and welcome applications from individuals of all backgrounds, experiences, and perspectives.

Cynthia Weinig Associate Professor Departments of Botany and Molecular Biology 1000 E. University Ave, 3165 Laramie WY, 82071 Email: cweinig@uwyo.edu TEL: 307 766-6378 FAX: 307 766-2851

Cynthia Weinig <cweinig@uwyo.edu>

Wellington NZ Fish diversity

Post Doctoral Researcher (Natural Environment: Fishes) - Fixed term till 30 June 2013

We are seeking a Researcher to join our team of fish biologists based at Te Papa, Wellington. The work of the team is dedicated to studying the diversity of fishes of the New Zealand region. One of the major outputs of the team during the period of the position is the production of the Guidebook to the Fishes of New Zealand. The role will also involve working on the Antarctic fish taxonomy and diversity of deep-sea fishes The researcher should have an excellent university record, holding a minimum of a Doctoral degree in a marine zoological subject.. The successful candidate should be able to start in the last quarter of 2011.

The successful candidate will need to demonstrate a combination of the following: * Postgraduate experience in biodiversity or ecological survey methods. * A good record of scholarly research and scientific publication. * Experienced with museum collections, associated electronic databases, and awareness of H&S issues. * Excellent computer, data-basing and records management skills. * Sound knowledge of taxonomy and identification techniques. * Able to work effectively with an existing dynamic team and with a diverse range of people. * Good communication skills and able to present science clearly to a wide audience. * Excellent research management, planning and leadership qualities, including facilitating positive team outcomes in pressured time-frames. * A good record of grant writing and success in achieving research funding. This position is fixed term until 30 June 2013.

Applicants must have the legal right to work in New Zealand For the job description and to apply please see our website http://www.tepapa.govt.nz/AboutUs/-JobsAtTePapa/Pages/overview.aspx OR please send your application to recruitment@tepapa.gpvt.nz and quote reference TP1228.

Applications close Wednesday 26 October 2011

Melissa.Huggins@tepapa.govt.nz

Wellington NZ Vertebrate diversity

Post Doctoral Researcher (Natural Environment: Terrestrial Vertebrates) - Fixed term till 30 June 2013

We are seeking an experienced Researcher to join our small team of vertebrate biologists at the Museum of New Zealand Te Papa Tongarewa, Wellington. The

work of the team is dedicated to researching the diversity and biology of frogs, reptiles, mammals and birds of the New Zealand region.

We are aiming to build our research programme in this area, and to engage with stakeholder organisations to deliver highly relevant, applied and pure research on the biota of the New Zealand region, its conservation challenges, phylogeny and systematics.

A strong focus of our research development will be on molecular ecology with development of a work programme to explore phylogenetic and ecological relationships. Work will be principally collections-based, but with the possibility for some field-based research activities to be developed as part of the programme.

The successful candidate will be part of the team directing development of this work at Te Papa in collaboration with our research colleagues nationally. The team has the opportunity to develop research questions within the core themes of Te Papa's biodiversity research strategy.

We seek a highly motivated researcher with a PhD in systematics, ecology, evolutionary biology or related field.

Applicants should have a strong interest in evolutionary ecology, be fit for fieldwork, and have good skills in experimental design, statistical analysis, effective communication and scientific writing. Applicants must be able to start work in late 2011 or early 2012 to conduct a two year programme of research

The successful candidate will also need to demonstrate the following: * A solid record of scholarly research and scientific publication * Ability to work autonomously * Strong track-record in grant writing and success in achieving research funding. . * Excellent project management, planning and leadership qualities, including facilitating positive team outcomes in pressured timeframes * Experience in leading work programmes in molecular ecology (stable- isotope analyses), phylogenetics and in Ancient DNA techniques is highly desirable. * Sound knowledge of taxonomy * Postgraduate experience in biodiversity and ecological survey methods is desirable * Understanding of phylogenetic relationships within Pacific faunas

Applicants must have the legal right to work in New Zealand For the job description and to apply please see our website http://www.tepapa.govt.nz/AboutUs/-JobsAtTePapa/Pages/overview.aspx OR please send your application to recruitment@tepapa.gpvt.nz and quote reference TP1227.

Applications close Wednesday 26 October 2011

Melissa.Huggins@tepapa.govt.nz

WorkshopsCourses

BodegaBay AppliedPhylogenetics Mar10-17

UC Davis

WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California

March 10-17, 2012

Sponsored by the

University of California, Davis and Bodega Marine Laboratory

(additional financial support provided by the University of Rochester)

http://bodegaphylo.wikispot.org/Front_Page

Introduction. Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, and play an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecological communities. The development of statistical methods for inferring phylogenies and for making inferences from phylogenies continues to be an extremely active and exciting research area.

In March 2012, for the thirteenth consecutive year, we will offer a workshop for graduate students interested in applying phylogenetic methods to explore diverse biological problems. The one-week course is an intensive exploration of the most current statistical approaches in phylogenetic biology. The course starts with recent advances in phylogeny estimation, and then focuses on methods for making various phylogeny-based inferences.

The course will be held at the Bodega Marine Lab on the Northern California coast, which has extensive computing resources and on-site housing. The course format will involve equal parts of lecture, discussion, and hands-on software training. One afternoon during the week will be left free for field trips to local natural areas.

Topics Covered

* Estimating, evaluating and interpreting phylogenetic trees

* Recent advances in Bayesian and Maximum-likelihood estimation of phylogeny

* Estimation of species trees, gene-tree/species-tree conflicts

* Divergence-time estimation from sequence data: relaxed clocks, fossil calibration

* Analysis of character evolution: maximum likelihood and Bayesian approaches, ancestral-state estimation, character correlation, rates of trait evolution

* Analysis of morphological form, function of complex character systems

* Inference of diversification rates: detecting rate shifts, testing key innovation hypotheses

* Model specification issues: model selection, adequacy and uncertainty

* Diagnosing MCMC performance

Course Registration. Complete details of the application process will be announced in mid-October. Please note that this is NOT a call for applications. For updates and additional information, please visit the course wiki: http://bodegaphylo.wikispot.org/-2012_Workshop. If you have further questions, please contact Brian Moore.

Brian R. Moore Department of Evolution and Ecology Storer Hall, One Shields Avenue University of California, Davis Davis, CA 95616

brianmoore@ucdavis.edu

Chillan Chile ConservationGenetics Jan15-29

The Conservation Genetics Network (ReGeneC) announces the VIII Latin American Conservation Genetics Course.

The Conservation Genetics Network (ReGeneC) gathers together scientists with experience in different areas of conservation genetics who work in the region. The VIII Latin American Conservation Genetics Workshop will be held between January 15-29 2012 in Chillan, Chile. This postgraduate course is given in Spanish and seeks to train and integrate human resources, facilitating the conservation and the appropriate use of the regional biological richness. Information regarding the programme, participating lecturers and pre-registration can be found at the web site: http://regenec.ula.ve/-taller/ene2012/ La Red de Genética para la Conservación (ReGeneC) anuncia el VIII Taller Latinoamericano de Genética para la Conservación.

La Red de Genética para la Conservación (ReGeneC) reúne a científicos con experticias en distintas áreas de esta temática que trabajan en la región. El VIII Taller Latinoamericano de Genética para la Conservación se desarrollará entre el 15 y el 29 de enero de 2012, en Chillan, Chile. El curso es dictado en español, tiene nivel de postgrado y busca, entre otros aspectos, formar y favorecer la integración de recursos humanos para facilitar la conservación y el uso adecuado de la riqueza biológica de esta región. Informaciones acerca del programa, profesores participantes y modalidades de pre-inscripción se encuentran en el sitio web del Taller: http://regenec.ula.ve/taller/ene2012/-

Dr. Elie POULIN Laboratorio de Ecología Molecu-

lar (LEM) Instituto de Ecología y Biodiversidad (IEB) Departamento de Ciencias Ecológicas Facultad de Ciencias, Universidad de Chile Las Palmeras 3425, Casilla 653 CP 780-0024, Ñuñoa, Santiago, Chile

http://lem.dm.cl/ http://www.ieb-chile.cl/ Phone: (56)-2-9787298 Fax: (56)-2-2727363 E-mail: epoulin@uchile.cl

Elie Poulin <epoulin@uchile.cl>

Corsica Palaeogenomics Oct17-21

Dear colleagues,

I would like to draw your attention to the workshop on"palaeogenomics" that will take place in Cargese/Corsica fromOctober 17 to 21, 2011. Official deadline for registration is September9, 2011, so please register as soon as possible!

I would also like to emphasize that thisworkshop (école thématique) is not only for graduate students andpostdocs but also for experienced researchers eager to diveinto the new field of genomics and its applications to evolution,palaeontology and even archaeology.

Although you can find all information as well as registration formson the internet site

https://sites.google.com/site/-palaeogenomicssummerschool2011/ I would like to facilitate decision making in that Icopy some important information into this mail.

Thanks to advances in next-generation sequencing technology,palaeogenomics enables large-scale analyses of genetically determinedcharacters of ancient individuals and of genome evolution using thedirect witnesses of past events. The meeting is geared towards bothyoung and more experienced scientists coming from diverse fields:archeosciences, palaeogenetics, molecular biology and genomics,evolutionary biology, metagenomics and bioinformatics.

The topics that will be covered include:

Monday 17/10/2011: Introduction into the field of palaeogenomics Archaeological and sampling methods (excavation procedures,methodological constraints, palaeontological determination, dating,contamination and degradation of DNA) Introduction into Phylogenetics Introduction into Population Genetics Introduction into NGS techniques Introduction into Bioinformatics Tuesday 18/10/2011: Sequencing Practical aspects of library construction (kits vs home madereagents, emPCR vs traditional PCR, multiplexing, repair, capture,multiplex PCR)

Wednesday 19/10/2011: Data analysis (including practical courses) Read mapping and de novo assembly, data base ? with practicaltraining at the computer

Thursday 20/10/2011: Comparative Genomics, Genome evolution,selection (including practical courses)

Friday 21/10/2011: Environmental and dirt DNA, metagenomics and bacterialgenomics (including practical courses)

The following colleagues will give lectures.Additional talks will be given by participants -and you can be one of them!

Bennett , E. Andrew (Institut Jacques Monod, Paris,France) Blum , Michael (TIMC laboratory, Medical School, La Tronche,France) Bon, Céline (CEA Saclay, France) Debruyne, Régis (Muséum National d?Histoire Naturelle, Paris,France) Duret, Laurent (University of Lyon, France) Elalouf , Jean-Marc (CEA Saclay, France) Gascuel, Olivier (LIRMM-CNRS, University of Montpellier,France) Geigl , Eva-Maria (Institut Jacques Monod, Paris, France) Ginolhac, Aurélien (University of Copenhagen, Denmark) Grange, Thierry (Institut Jacques Monod, Paris, France) Heyer , Evelyne (Muséum National d?Histoire Naturelle, Paris,France) Kircher, Martin (Max-Planck-Institute for EvolutionaryAnthropology, Leipzig, Germany) Krause, Johannes (Eberhard-Ludwig University, Tübingen,Germany) Keyser, Christine (Univeristy of Strasbourg, France) Le Paslier, Denis (Gensocope, Evry, France) Orlando, Ludovic (University of Copenhagen, Denmark) Palmer, Sarah (University of Warwick, Great Britain) Pontarotti, Pierre (University of Marseille, CNRS, France) Prestat, Emmanuel (Ecole Centrale, CNRS, Ecully, France) Quintana-Murci, Lluis (Institut Pasteur, Paris, France) Rasmussen, Morten (University of Copenhagen, Denmark) Rivals, Eric (LIRMM-CNRS, University of Montpellier, France) Simonet, Pascal (Ecole Centrale, CNRS, Ecully, France)

If you have any questions, please don't hesitate to contact me.

Best wishes,

Eva-Maria

Eva-Maria Geigl PhD Head of Research Institut Jacques Monod du CNRS, UMR 7592 Université Paris Diderot Paris 7 Equipe "Epigénome et Paléogénome" Bâtiment Buffon 15 rue Hélène Brion

75013 Paris/France Téléphone +33-1 57 27 81 32 <geigl.eva-maria@ijm.univ-paris-diderot.fr>

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

Crete ComputationalMolEvol 2012

Dear Community,

The 4th summer school on computational molecular evolution organized by Aidan Budd, Nick Goldman, Ziheng Yang and myself will take place again in 2012 and we are going back to Crete, Greece.

Confirmed instructors include: Martin Embley Carolin Kosiol Antonis Rokas Jeff Thorne Maria Anisimova Clemens Lakner Tim Massingham Cilia Antoniou Tanja Stadler Sarah Parks Aidan Budd Brian Moore Ben Redlings Bill Pearson Alexis Stamatakis Olivier Gascuel John Huelsenbeck Nick Goldman Ziheng Yang Bruce Rannala Adam Leache

The application deadline is on October 31st 2011.

For details on the application procedure and all other related information please go to:

http://events.embo.org/12-computational-evolution/ Looking forward to seeing you in Crete,

Alexis

– Dr. Alexandros Stamatakis

Group Leader: Scientific Computing Group (Exelixis Lab & HPC Infrastructure) Heidelberg Institute for Theoretical Studies (HITS gGmbH)

Schloss-Wolfsbrunnenweg 35 D-69118 Heidelberg Germany

Tel: +49 1511 7496080 (Mobile) +49 6221 533240 (Office) Fax: +49 6221 533298 Skype: stamatak Email: Alexandros.Stamatakis@h-its.org WWW: http://-www.exelixis-lab.org http://www.h-its.org/english/-research/sco/index.php Amtsgericht Mannheim/HRB 337446 Managing Directors: Dr. h.c. Dr.-Ing. E.h. Klaus Tschira/Prof. Dr.-Ing. Andreas Reuter

alexandros.stamatakis@gmail.com

CzechRepublic Genomics Jan8-25

2012 Workshop on Genomics, ÄeskÃ½ Krumlov, Czech Republic

Core Workshop: 8 - 21 January 2012 Advanced Topics Session: 23 - 25 January 2012

Application Deadline: 15 November is the preferred application deadline, after which time people will be admitted to the course following review of applications by the admissions committee. However, later applications will certainly be accepted.

Registration Fee: 1800 USD. Fee includes opening reception and mid- course dinner, but does not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels.

For general Workshop information: http://evomics.org Direct Workshop Link: http://evomics.org/-workshops/worksho...cesky-krumlov/ Direct Advanced Topic Link: http://evomics.org/workshops/advanced-topics/ Co-directors: Scott A. Handley, Naiara RodrÃ'guez-Ezpeleta and Karin Rengefors

The Workshop on Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of genomics focusing primarily on the analysis of next-generation sequencing data. Faculty are chosen exclusively for their effectiveness in teaching theory and practice. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students. Scientists with strong interests in the uses of short-read sequence data, analytical methods, comparative structure of genomes, using next- gen sequence data to study non-model organisms, SNP detection and analysis, genome visualization tools and related areas are encouraged to apply for admission. Lectures and computer laboratories total ˜90 hours of scheduled instruction. Admission is limited and highly competitive, with admissions decisions determined by an international committee. No programming experience is required.

Topics to be covered include: - Sequencing technologies: short-read sequencing technologies of various types - Manipulation of sequence data using the command-line and quality assessment and control techniques - Assembly and alignment: basic analyses in de novo and re- sequencing studies - The use of next-generation sequence data to study non-model organisms - RAD (Restriction

site Associated DNA) sequence analysis - Genome characterization: gene content; genome structure; SNPs - Assigning sequences to taxonomic groups in metagenomic studies - Transcriptome quantification and mapping for expression and gene structure elucidation - The use of frameworks (Galaxy) for genome data comprehension and analysis - Evolutionary genomics - Population genomics Whatâs new this year? - New Website: Updated design, content and application forms can be found at http://evomics.org. Workshop schedules as well as other detailed information can be found at this site which is frequently updated.

- Advanced Topic Sessions: In addition to the core two-week Workshop curriculum we will be organizing 2-3 day Advanced Topic Sessions on Programming and on the use R/Bioconductor for genomic analysis.

- Scholarships: A limited number of scholarships will be provided to help off-set the costs of participating in the Workshop. More details about these opportunities will be made available very soon.

- Amazon Web Services Support: We have been awarded a grant to provide cloud computing support using Amazon Web Services. Every participant will be provided with access during their participation in the Workshop. Offered in partnership with the Graduate Research School in Genomic Ecology (GENECO) http://www.geneco.se/ For more information and online application see the Workshop web site - http://evomics.org handley.scott@gmail.com

London DNA from herbarium Oct21

Dear all,

The SYNTHESYS2 JRA4 project is organising an open seminar on DNA extraction from herbarium specimens in London on 21st October. We would like to advertise this more broadly to include anyone in the vicinity at the time. The seminar is aimed for disseminating the results from the JRA4 project which focuses on optimising DNA extraction from old herbarium samples. The seminar is free and open to anybody, and is directed to people who are using or planning to use herbarium specimens in molecular studies. We hope to provide answers, solutions and ideas for maximising the use of herbarium collections in research & provide opportunities for the community to discuss future work.

*****

OPEN SEMINAR

“Extracting DNA from herbarium specimens”

21st October 10.00 am -11.30 am

Jodrell lecture theatre

Kew Gardens, Richmond, London

Organised by the SYNTHESYS2 JRA4 project

PROGRAM

9.30 am Coffee

10.00 am Opening & Introduction by Mark Chase 10.10 am “Museum DNA and the SYNTHESYS2 JRA” by F.T. Bakker 10.20 am “Herbarium DNA: a review and a database” by A. Woodcraft 10.40 am “Lessons learned from extracting DNA from herbarium material” by T. Särkinen 11.00 am “DNA damage in plant herbarium tissue” by M. Staats 11.25 am Discussion & Closing words

Travel information: http://www.kew.org/visit-kew-gardens/ Project information: http://-www.synthesys.info/II_JRA_4.htm Questions: tiina.sarkinen@nhm.ac.uk

Tiina Sarkinen

Research Assistant Natural History Museum Cromwell Road London SW7 5BD Tel. 020 7942 5107

Tiina.Sarkinen@nhm.ac.uk

London SystematicsAssociationLecture 5thOct

The Systematics Association Sir Julian Huxley lecture

Taxonomy in the 21st century

Prof. Charles Godfray, University of Oxford.

The Linnean Society, Burlington House, Piccadilly, London Wednesday 5th October 2011, 6 pm

The meeting is open to visitors. Wine will be served after the lecture to members and guests. Please advertise this lecture as widely as you can.

Abstract: Taxonomy is one of the oldest branches of biology and in a time of major loss of biodiversity of critical importance today. But the subject currently faces great threats and as well as great opportunities - many tasks that traditionally required taxonomic ex-

pertise can now be performed by non-specialists using modern molecular techniques, and the users of taxonomy expect information to be made available seamlessly over the web. In the lecture I'll explore some of the major challenges facing the subject, drawing on the recent NERC-sponsored report "Developing a National Strategy in Taxonomy & Systematics". I shall argue that the future of taxonomy and systematics is assured, as long as the subject takes the lead in redefining itself as a modern information science.

– The Wellcome Trust Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

James Cotton <james.cotton@sanger.ac.uk>

Montana ConGen Sep27-Oct1 LastTwoPlacesAvailable

5th ConGen- Population Genetics Data Analysis Course: Recent Approaches for Estimation of Population Size, Structure, Gene-flow, Selection Detection focusing on conservation and beyond

27-Sep/1-Oct 2011, Flathead Lake Biological Station, Montana, USA

Due to last minute quits two places become available to attendend this edition

Objective: To provide training in conceptual and practical aspects of data analysis for the conservation genetics of natural and managed populations. Emphasis will be on interpretation of output from recent novel statistical approaches and software programs. The course also will allow daily discussions among young researchers and top-researchers to help develop the next generation of conservation geneticists, and to identify developments needed to improve data analysis approaches. This course will cover analysis methods including the coalescent, Bayesian, approximate Bayesian, and likelihood-based approaches.

Who should apply: Ph.D. students, post-docs, and population biologists with a background of at least one semester university-level course in population genetics and a course in population ecology. Applicants must have a basic background in population genetic data analysis, including testing for Hardy-Weinberg proportions and gametic disequilibrium. Participation will be limited to 25 people allowing efficient instruction with hands-on computer exercises during the course. Priority will be given to persons with their own data to analyze (for example graduate students at the end of their degree program).

Deadline for application is 20 September, 2011

Course/Workshop Format: For each subject, we provide 30-45 minutes of background, theory, discussion and introduction to concepts. Immediately following, we will conduct data analyses together for 30-60 minutes using relevant software programs and real data sets. Evening hands-on computer sessions and housing together of instructors and students in the same location will allow for extensive exchange and facilitate learning.

Confirmed Instructors/Speakers

Fred Allendorf Robin Waples Oscar Gaggiotti Gordon Luikart Jonathan Pritchard Mike Schwartz Mark Miller Tiago Antao Paul Hohenlohe Albano Beja-Pereira

For detailed information see http://popgen.eu/-congen2011/ congen@popgen.eu

Albano Beja-Pereira <albanobp@fc.up.pt>

NatlUSingapore DiseasePhylogenetics Oct10-14

Workshop on Phylogenetics for Infectious Diseases - with a focus on DNA viruses (October 10 - 14, 2011)

The aim of this workshop is to discuss how to improve the analysis of evolutionary and epidemiological aspects of viruses (mainly focusing on their genomic sequences) and the infections they cause, using mathematical tools. The main focus will be on DNA viruses (e.g. varicella zoster virus, human papillomaviruses, adenoviruses, etc.) though RNA viruses, such as influenza and HIV are also included. The invited speakers/participants are an inter-disciplinary mixture of specialists in virology, epidemiology and mathematical modelling (phylogenetics/statistics). By the end of the workshop, the participants should have a better understanding of alternative and possibly newer mathematical approaches to analyse such viral gene sequence data.

Venue: Institute for Mathematical Sciences (IMS) of the National University of Singapore

Registration is FREE. Deadline for registration: Octo-

ber 5, 2011

More information is available at http://-www2.ims.nus.edu.sg/Programs/011wphylogenetics/-index.php Tan Li Fong <imstlf@nus.edu.sg>

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.