E v o l D i r

January 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

BucknellU EvolutionaryEcol Jun13-14

The Bucknell University Department of Biology and Dean of Arts and Sciences are pleased to announce a two-day international symposium entitled "Evolutionary Ecology across Trophic Levels - A Symposium in Honor of Warren Abrahamson" to be held in Lewisburg, Pennsylvania, USA on Monday, June 13 and Tuesday June 14, 2011.

The conference will feature over 20 scientific talks to be given by alumni, collaborators, and friends of the Abrahamson Lab. Topics will address the diversity of subjects and approaches taken by Abe over his career, from the ecology and evolution of plant-insect interactions, to community and ecosystem approaches to fire ecology, restoration, and conservation of natural landscapes. Please visit the symposium website for a complete list of speakers.

A contributed poster session is also planned. Activities will include a banquet, picnic, and talent show, as well as regional natural history excursions (tentative). Events will be held in the Elaine Langone Center on the Bucknell Campus.

Anticipated costs include registration fees of $35 for students and $75 for all others. These fees will include meals and snacks but not lodging. Additional tickets to the picnic and banquet will be available at cost. Registration is not currently active, but will be available in February at the conference website.

Convenient lodging in Bucknell dormitories will be available for $38/ night single and $30/night double occupancy, with a one-time key charge of $10. There are many high-quality hotels, inns, and B&Bs in the region as well.

The Bucknell University campus provides easy access to the downtown shopping, dining, and entertainment district of Lewisburg, a town noted for its historical preservation and vibrant culture. Details can be found at: http://www.lewisburgpa.com/ This conference will celebrate Warren Abrahamson's 38 years of service to Bucknell University and the scientific community in anticipation of his upcoming retirement in the summer of 2012. During his career, Abe has supervised approximately 200 undergraduate research students, 18 Master's recipients, and 21 postdoctoral fellows, many of whom have remained active in science. In 2009 he was named a AAAS fellow. His main research interests include 1) multitrophic plant-insect interactions using the goldenrod system and 2) fire ecology and plant demography in Florida's upland communities.

Please visit the conference webpage for more information and updates: http://bucknell.edu/-x65430.xml For more information on Warren Abrhamson and his work, please visit his lab website: http://www.facstaff.bucknell.edu/abrahmsn/ Questions and comments can be addressed to steve.jordan@bucknell.edu

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

Munich DeepMetazoanPhylogeny Oct11-14

Dear colleagues,

the international conference -Deep Metazoan Phylogeny 2011 -" new data, new challenges?" will be held from October 11-14, 2011 at the University of Munich (Germany).

The conference will bring together mathematicians, theoreticians, molecular systematists, and morphologists that aim at resolving deep branches in the animal tree of life for a better understanding of the evolution and diversification of multicellular life on Earth.

During the conference, new data, new analytical tools and new results will be discussed. Challenges and pitfalls in phylogeny reconstruction based on molecular and/or morphological data will be identified, aiming for a critical and constructive view of the state of the art of the metazoan tree of life.

The meeting will consist of sessions with several invited leaders in the field and open sessions with short presentations. In addition, there will be ample space and time to present posters.

The meeting focuses on three major themes: (1) Innovations in the analyses of molecular and morphological data Keynote speakers: to be announced

(2) Molecular phylogeny: new markers and phylogenomic analyses Keynote speakers: Gert Wörheide (University of Munich): Introduction HervÃ© Philippe (UniversitÃ© de MontrÃ©al, Canada) (tentative): Phylogenomics Dennis Lavrov (Iowa State University, USA): Mitochondrial (phylo)genomics Kevin Peterson (Dartmouth College, USA): microRNA's as new molecular markers three more keynote speakers to be announced

(3) The evidence found in morphology Keynote speakers: Stefan Richter (University of Rostock): Introduction Chris Lowe (Stanford University) Ronald Jenner (Natural History Museum London) Manfred Laubichler (Arizona State University) Rudolf Loesel (University of Aachen) Thomas Bartolomaeus (University of Bonn) Thomas Stach (Free University of Berlin)

There will also be a distinguished evening lecture by Phil Donoghue (University of Bristol, UK): Reconciliation of fossils, molecules and morphology.

The conference is organised by the Priority Program "Deep Metazoan Phylogeny" of the German Science Foundation (DFG). This program is a joint effort of more than 20 participating workgroups bringing together molecular, morphological and bioinformatic expertise with the goal to establish a (hopefully) robust backbone metazoan phylogeny. Details on the priority project "Deep Metazoan Phylogeny" can be found at < http://www.deep-phylogeny.org >.

More information is available on the conference website < www.palmuc.de/dmp2011 >, which will continuously be updated. A formal call for abstracts will follow in early 2011.

I look forward to welcoming you in Munich next October!

for the organizing team Gert Wörheide

— Prof. Dr. Gert Wörheide Molecular Geo- & Palaeobiology Department of Earth and Environmental Sciences & GeoBio-CenterLMU Ludwig-Maximilians-Universitaet Muenchen Richard-Wagner-Straße 10 80333 Muenchen Germany

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Director, Bavarian State Collections of Palaeontology and Geology Spokesman of the Executive Board, GeoBio-CenterLMU

Lab publications: www.mol-palaeo-lit.de/papers.php www.researcherid.com/rid/C-1080-2008 woerheide@lmu.de

Nashville NasoniaMeeting Jun14-17

The Nasonia Meeting, June 14-17, 2011, in Nashville, TN

REGISTRATION IS NOW OPEN to attend the Nasonia Meeting on June 14 (arrival), 15, 16, and 17 (departure), at Vanderbilt University, Nashvile, TN.

For complete information regarding registration, lodging, abstract submission, and things to do in Nasvhille, please visit our Conferece website, < http://www.vanderbilt.edu/biosci/nasonia/index >http://www.vanderbilt.edu/biosci/nasonia/index .

Please share this announcement with colleagues and students. If you have questions, please contact Sarah

at sarah.bordenstein@vanderbilt.edu.

Key Dates **Registration Deadline: December 23, 2010 Abstract Deadline: April 1, 2011 Conference: June 14-17, 2011

If you need any further information, please contact Sarah Bordenstein at sarah.bordenstein@vanderbilt.edu.

FUNDING for this symposium is in part provided by The College of Arts and Science at Vanderbilt University. –

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s.bordenstein@Vanderbilt.Edu

Paris EvolutionSexChromosomes Jun9-10

SAVE THE DATE/ RETENEZ LA DATE

On 9-10 June 2011, the French Genetics Society (SFG) is organising a meeting "Genetics, Epigenetics and Evolution of Sex Chromosomes" in Paris. Sessions will cover evolution, sex determination, meiosis, dosage compensation and epigenetics. The meeting will include invited talks, talks to be chosen from submitted abstracts and poster sessions. Registration and abstract submission will open in February, on the web site of the SFG: http://www.sfgenetique.org Catherine.Montchamp@legs.cnrs-gif.fr

Spain EpigeneticsEcologyEvolution Sep18-23

Dear EvolDir members,

We are pleased to announce the ESF-EMBO Symposium âEPIGENETICS IN CONTEXT: FROM ECOLOGY TO EVOLUTIONâ, which will held on 18-23 September 2011 in Sant Feliu de Guixols in Spain.

The aim of this symposium is to bring together molecular epigeneticists with population geneticists and evolutionary ecologists to discuss the potential contribution of epigenetics to understanding ecological and evolutionary responses of organisms (including humans) to environmental change, to set ecological and evolutionary epigenetics on a strong theoretical and experimental footing, and to start building a European network of researchers, notably young scientists, that are interested in this novel and exciting field.

This is a medium-sized meeting limited to 150 participants, with talks by 20-25 invited speakers (see the list of confirmed speakers below), an equal number of short talks selected from abstracts, and three poster sessions. The conference will take place in a beautiful location, and there will be plenty of time for discussion, exchange of ideas and interaction between the participants.

Online application for the conference will be possible from early next year through the ESF conference website (http://www.esf.org/conferences). We particularly encourage participation of students and early stage researchers working in the field. There will be some means for financial support of young researchers.

We are looking forward to seeing you in Spain!

Best wishes,

Vincent Colot (ENS Paris) & Oliver Bossdorf (University of Bern)

LIST OF CONFIRMED INVITED SPEAKERS: Malika Ainouche, David Baulcombe, Justin Borevitz, Deborah Bourcâhis, Vicki Chandler, Caroline Dean, Regis FerriÃre, Ueli Grossniklaus, Carlos Herrera, Eva Jablonka, Frank Johannes, Claudine Junien, Bill Kelly, Rob Martienssen, Ortrun Mittelsten-Scheid, Jerzy Paszkowski, StÃ©phane Ronsseray, Dirk Schübeler, Koen Verhoeven, Jason Wolf

– Dr. Oliver Bossdorf Institute of Plant Sciences University of Bern Altenbergrain 21 CH-3013 Bern phone: +41 31 631 4926 bossdorf@ips.unibe.ch http://sites.google.com/site/obossdorf/ Oliver Bossdorf <bossdorf@ips.unibe.ch>

UHull PopGroup Jan5-7 Registration2

Dear Evoldir members,

December is here, and the deadline for registering for this year's Population Genetics Group ("PopGroup") meeting is fast approaching! Please register online at http://www.populationgeneticsgroup.org and submit your title+abstract by 6th December. This year's meeting promises to be great fun, with three excellent plenaries lined up, and a conference meal at "The Deep" - Hull's famous aquarium.

Please see the website for more information.

We look forward to welcoming you to Hull in January!

Very best wishes Dave Lunt and Lori Handley

Dr Lori Lawson Handley Evolutionary Biology Group University of Hull Cottingham Road Hull, HU6 7RX

Tel 01482 462061

L.Lawson-Handley@hull.ac.uk

UMichigan DiseaseEvolution Apr16

CALL FOR NOMINATIONS

SEVENTH ANNUAL UNIVERSITY OF MICHIGAN EARLY CAREER SCIENTISTS SYMPOSIUM

INFECTIOUS DISEASE ACROSS SCALES

The Department of Ecology and Evolutionary Biology at the University of Michigan invites nominations of outstanding scientists early in their careers to take part in an exciting symposium on infectious disease ecology and evolution. This symposium will be held in Ann Arbor, Michigan on Saturday, 16ÂAprilÂ2011. Eight scientists will be selected to present their work. The theme of the symposium will be âInfectious disease across scales: the complexity of pathogen ecology and evolution.â We are therefore seeking nominations for scientists whose work addresses host-pathogen or host-parasite systems at the within-host level, at the community level (multiple pathogens and/or hosts), considers the (co)evolutionary dynamics of disease systems, or that bridges one or more of these scales. We are especially interested in junior researchers with strong field or laboratory research programs that address fundamental theoretical questions and theoreticians whose work is especially intimately connected with data.

Early career scientists are defined as senior graduate students (who stand to receive their Ph.D. within one year), postdoctoral researchers, and first- or second-year tenure-track faculty. Advisors and senior colleagues are encouraged to submit nominations.

A nomination consists of a brief letter of recommendation addressing the nomineeâs scientific promise and ability to give a good talk, the nominee's curriculum vitae, and a brief abstract of the proposed presentation (<Â200 words, written by the nominee). Nominations may be sent electronically (in one file if possible) to eeb-ecss-nomination@umich.edu using your nominee's name as the subject line (last name first, please). More information is available at http://-sitemaker.umich.edu/ecss2011.

All nominations must be received by January 10, 2011. Selected participants will be contacted by January 31, 2011.

For more information, contact Gail Kuhnlein at kuhnlein@umich.edu.

2011 ECSS organizing committee: Aaron King kingaa@umich.edu Mercedes Pascual pascual@umich.edu Pejman Rohani rohani@umich.edu Andres Baeza (abaezac@umich.edu) Micaela Martinez-Bakker (bakkerma@umich.edu) Gail Kuhnlein (kuhnlein@umich.edu)

Michigan EEB website: http://www.eeb.lsa.umich.edu kingaa@umich.edu

UPittsburgh ModelingSimulation Apr1-3

www.modelingepistemology.pitt.edu Call for Abstracts:

Submission of extended abstracts (approximately 1,000 words) is invited for presentations of approximately 30 minutes. Modeling work in any discipline or application is welcomed that includes philosophical reflection on epistemological issues raised. Philosophical work in any relevant area is welcomed, with preference given for work that includes a focus on specific examples of contemporary modeling. Projects that involve both philosophers and those active in modeling research, outcomes, or policy impact are particularly encouraged. Limited graduate student and postdoctoral fellow travel support is available. Deadline for submission: January 7, 2011. Building Bridges Between the Philosophical and Modeling Communities Hosted by the University of Pittsburghâs Models of Infectious Disease Agent Study (MIDAS) National Center for Excellence in the Graduate School of Public Health and the Center for Philos-

ophy of Science.

The three-day conference will focus on philosophical issues that arise within the practice and application of contemporary research using modeling and simulation. The goal is to bring together sophisticated work in philosophy of science and ongoing efforts in modeling in order to build more effective collaboration between philosophers of science and those who build and employ models in a range of disciplines and applications. There is no registration fee for this event but pre-registration is requested at the following link: www.modelingepistemology.pitt.edu/registration. Topics will include: Theory, experiment, modeling, and simulation Validation and verification of models and simulations Does simulation require a new epistemology? Analytic models versus simulations How do models succeed? When do models fail? Modeling in different domains: infectious disease, behavior, economics, and more Modeling, science, and policy Confirmed Invited Speakers:

Mark Bedau Editor-in-Chief, Artificial Life, co-editor of Emergence: Contemporary Readings in Philosophy and Science and Protocells: Bridging Nonliving and Living Matter.

John H. Miller Santa Fe Institute and Carnegie Mellon University Social and Decision Sciences, Associate Editor of the Journal of Computational Economics and co-author of Complex Adaptive Systems.

Paul Thagard Computational Philosophy of Science; How Scientists Explain Disease; Coherence in Thought and Action; Hot Thought; Induction: Processes of Inference, Learning, and Discovery.

Marc Lipsitch Bacterial and human population genetics, mathematical modeling of infectious disease. Director of the Center for Communicable Disease Dynamics, Harvard School of Public Health and is author of over 100 papers on topics including population genetics and mathematical modeling of infectious disease transmission.

Ian Lustick Agent-based modeling of political dynamics and violence. Trapped in the War on Terror; Unsettled States, Disputed Lands: Britain and Ireland, France and Algeria, Israel and the West Bank-Gaza.

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Vienna MathBiology Apr11-12 CallAbstracts

Mathematical and Statistical Aspects of Molecular Biology

21st annual MASAMB workshop

Vienna Biocenter 11/12 April 2011

Call for Abstracts

Abstracts for Talks and Posters are invited for the 21st annual MASAMB workshop which will come the first time to the continent and will be held at the Biocenter in Vienna, Austria from the 11th to the 12th April 2011.

Bioinformatics and statistical genetics, twin themes of the long-running series of annual MASAMB meetings, have gained huge impetus from large-scale genome sequencing projects and development of high-throughput biological assay systems, including gene-expression microarrays, next generation sequencing, proteomic and metabolomic technologies. These immense data resources, and the underlying complexities of molecular and cell biology, provide exciting research opportunities for numerate scientists.

With a strictly limited number of participants from mathematics, statistics, computer science, bioinformatics, biology and related fields, the MASAMB meetings provide an intimate setting for exchange of ideas in methodological and applied research. Research students and scientists newly entering the field of genomic research are particularly welcome.

For more information, submission of abstracts and registration please go to:

http://www.cibiv.at/workshops/masamb11/ Likely topics for sessions this year

- Next Generation Sequencing - Population Genetics - RNA Bioinformatics - Phylogeny and Comparative Genomics - Systems Biology

Important dates:

- Registration opens: 15th December 2010 - Abstract submission: 15th February 2011 - Registration closes: 28th February 2011 - Conference: 11th-12th April 2011

We look forward to seeing you in Vienna next year,

Carolin Kosiol and Arndt von Haeseler

Carolin Kosiol, Institute of Population Genetics, Vetmeduni Vienna, carolin.kosiol@vetmeduni.ac.at

Arndt von Haeseler, Center for Integrative Bioinformatics Vienna (CIBIV), Max F. Perutz Laboratories, admin.cibiv@univie.ac.at

Carolin Kosiol <carolin.kosiol@vu-wien.ac.at>

WestVirginia HaemosporidianEvolution Aug5-7

FIRST ANNOUNCEMENT International Meeting on Malaria and Related Haemosporidian Parasites of Wildlife Friday August 5th V Sunday August 7th, 2011 National Conservation Training Center, Shepherdstown, West Virginia Sponsored by the NSF Research Coordination Network for Haemosporida of Terrestrial Vertebrates1 Organized by Robert C. Fleischer and Ellen Martinsen Smithsonian Institution Ravinder Sehgal San Francisco State University

Dear Colleagues,

The NSF-sponsored Research Coordination Network for Haemosporida of Terrestrial Vertebrates invites you to participate in a three-day meeting including keynote talks by leading experts in the field, general paper and poster sessions, plus a training session and roundtable discussion.

Topics for the meeting center around the Haemosporida of wildlife and include: haemosporidian systematics and genomics, species limits and definitions, generalist versus specialist parasites, evolution of virulence, geographic distribution of vectors and hosts, host shifts and emerging infectious diseases, parasite ecology, and vector-parasite relationships.

The meeting will commence on Friday morning, August 5th, with an optional half-day training session on haemosporidian classical taxonomy. Keynote talks and general paper and poster sessions will follow on Friday afternoon, Saturday, and Sunday morning. The meeting will end on Sunday afternoon, August 7th, with an optional roundtable discussion on species limits in the haemosporidians.

All food, lodging and meeting events will take place at the US Fish & Wildlife Services National Conservation Training Center in Shepherdstown, West Virginia, a site easily accessible through Washington, DC, area airports.

The Second Conference Announcement will provide an overview of the three days of events, the program of invited speakers, and the Call for Abstracts. The official conference website (to be launched in January of 2011) will provide up-to-date information on all the conference logistics as the conference approaches. In the meantime, further information can be obtained from the meeting organizers (email: MalariaRCNMeeting@gmail.com).

The meeting will be preceded by a four-day workshop, suitable for beginning investigators, on the field, microscopic, molecular, and analytical methods to study haemosporidian parasites of wildlife. The workshop will begin early Monday morning, August 1st and continue through Thursday night, August 4th. 1 The Research Coordination Network for Haemosporida of Terrestrial Vertebrates (RCN), sponsored by the U. S. National Science Foundation and funded through 2015 at the University of Missouri-St. Louis, was established to promote communication among researchers working on the ecology and evolution of haemosporidian parasites of vertebrate wildlife populations. A website for the network (www.malariarcn.org) will be available early in 2011. In the meantime, inquiries can be directed to R. E. Ricklefs at ricklefs@umsl.edu.

“Fleischer, Robert” <FleischerR@si.edu>

GradStudentPositions

AuburnU FlukeSystematics

TWO (2) DOCTORAL RESEARCH ASSISTANTSHIPS (PARASITOLOGY) -“ AUBURN UNIVERSITY, AUBURN, ALABAMA http://www.aquaticparasitologylab.org Two doctoral research assistantships are available in the Department of Fisheries and Allied Aquacultures (College of Agriculture, Auburn University) starting Summer 2011 or as soon as possible thereafter. These positions comprise a full Graduate Research Assistantship (US$19,000/yr) and include tuition waver. Successful applicants will be based at Auburn University's main campus (Auburn, Alabama) and supervised by Dr. Stephen A. (”Ash“) Bullard. Funding is principally by a recently-awarded, 3-year National Science Foundation research grant (NSF-REVSYS) focused on the natural history and systematic interrelationships of the fish blood flukes (Digenea: Aporocotylidae)' which comprise emerging aquaculture pathogens that parasitize the blood and body cavity of freshwater, marine, and estuarine fishes worldwide. Successful applicants are expected to further refine and execute selected research objectives defined within that NSF proposal as well as contribute to the overarching objectives of the Aquatic Parasitology Laboratory (APL), mentor undergraduate interns, and take part in the day-to-day activities of the APL. Although a MSc degree is not required, applicants holding a MSc degree in Parasitology, Aquatic Animal Health, or related field or who have previous taxonomic experience are strongly encouraged to apply. Competency in spoken and written English, foreign and domestic travel, necropsies of animals (vertebrates and invertebrates), and field work in aquatic environments are required. More about the people, project areas, and activities of the APL can be found at http://www.aquaticparasitologylab.org. Applicants are encouraged to call Ash Bullard @ 00-1-334-844-9278 (Skype or AIM/iChat for international applicants is feasible) before sending the following to sab0019@auburn.edu: i) curriculum vitae (including phone and email), ii) a cover letter that includes a motivation statement and synopsis of previous, relevant experience, and iii) na mes of at least three (3) references (including email address and phone number for each reference).

Stephen A. (”Ash“) Bullard, PhD http://www.aquaticparasitologylab.org Assistant Professor, Department of Fisheries and Allied Aquacultures Associate Editor, Journal of Parasitology Auburn University, College of Agriculture 324 Upchurch Hall Auburn, AL 36849, USA 334.844.9278 (office phone) 334.844.9208 (departmental FAX)

Ken@auburn.edu

CambridgeU ButterflySpeciation

PhD project:

The role of sex pheromones in reproductive isolation among Heliconius butterflies±

Caroline Nieberding and Chris Jiggins

Heliconius is a diverse neotropical genus famous for M[1]llerian mimicry, where unrelated species converge in their aposematic colour patterns to more efficiently advertise their unpalatability to predators. Sister taxa tend to belong to different mimicry rings and evidence suggests that shifts in colour pattern can cause both pre- mating and post-mating isolation, thereby promoting rapid speciation. These colour patterns are therefore a clear example of an ecological trait with a pleiotropic effect on mate choice. However, pheromones also play an important role in butterfly courtship [1-5] but little is known about them in Heliconius.

Sex pheromones are essential chemical mediators between males and females and play key roles in determining i) the reproductive success, i.e. the fitness±, of individuals within a species; and ii) reproductive isolation between species [1]. This project aims to characterise and explore the importance of pheromones in Heliconius speciation.

Aims of the project We postulate that reproductive isolation between sympatric related species of Heliconius must involve olfactory communication, especially where such species share wing patterns due to mimicry. We anticipate that females recognize conspecific mating partners based on the differentiation of male sex pheromones (in composition, titres or ratios) used during courtship, between closely related species.

Research methodology A. Role of male secondary sexual structures in sex pheromone production

In Heliconius, male sex pheromones are produced by a region of shiny androconial scales on the hindwing known as androconia. To identify chemical components produced by these wing regions we will compare gas chromatographs (coupled to mass spectrometry) between males with surgically removed androconia at emergence (hereafter operated± males) compared to sham-operated males, (following [5]). Potential male sex pheromone components will be specific to sham-operated males. This experiment will be performed for different sympatric Heliconius species.

B. Role of male sex pheromone components in the mating behaviour of Heliconius butterflies

Mating success of mixed populations can be measured by tracking mating success via transfer of coloured marker dusts from male to female during copulation [6]. Competition experiments in tropical greenhouse conditions between operated and sham-operated males will determine whether the mating success of males is dependent on the presence of androconia, and related potential pheromone production. These experiments could be carried out with different races of Heliconius.

In further experiments, the active pheromone blend obtained from total wing extracts, or from the corresponding synthetic blend (if available for purchase or synthesis), can be added to operated males in order to assess whether pheromone restoration restores mating success.

C. Role of male sex pheromones in reproductive isolation

Experiments could be carried out either in competition experiments, or through controlled mate choice experiments involving fewer individuals. Comparison between hybridisation rates of operated and sham-operated males will be compared to investigate the role of pheromones in reproductive isolation.

Alternatively, competition experiments between females of one population and males of different comimetic Heliconius species will be carried out with either (i) females with antenna blocked with varnish, or (ii) sham-operated females with varnish is deposited at the base of the antenna. We expect that the proportion of hybrid matings will be significantly higher in the first than in the second set of experiments

In summary, little is known about pheromonal communication in Heliconius, so there is enormous scope for this project to develop in different directions. Possible future avenues include studies of the genetic basis of pheromonal differences between populations, or the information content of pheromonal signals within species.

The project is a collaboration between Chris Jiggins and the Butterfly Genetics Group in Cambridge, UK and Caroline Nieberding in the Acadmie Louvain (UCL), Belgium. Potential funding sources are available at both institutions. There is also potential for collaboration with Luana Maroja, at Williams College, and Mathieu Joron at the Natural History Museum in Paris who are also beginning to explore pheromonal communication in Heliconius. The project will also benefit from the fact that Prof. Brakefield has recently moved to Cambridge, bringing considerable expertise

in butterfly evolutionary genetics and pheromonal communication in particular.

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CarletonU EvolutionOfSex

PhD students, Carleton University (in Ottawa), Evolution of Sex

PhD students wanted to study evolution of sex. Our lab studies origins and maintenance of sex from epigenetic, population genetic, cytological, cellular, and feminist perspectives (see www.carleton.ca/~rgorelic).

Funding is currently only available for Canadian citizens and permanent residents. I am currently only considering PhD applications. If interested, please send your cv, summary of research experience and interests, and contact details of at least two referees to <root_gorelick@carleton.ca>.

Sincerely, Root Gorelick

Root_Gorelick@carleton.ca

ColoradoStateU EvolutionaryVariability

Multiple PhD positions, Colorado State University and University of Nebraska, Lincoln

A collaborative team of researchers from Colorado State University, University of Nebraska and Cornell University seeks individuals to join us on a recently awarded NSF Dimensions of Biodiversity grant called EVOTRAC (Evolutionary and Ecological Variability in Organismal Trait Response with Altitude and Climate).

EVOTRAC aims to predict the vulnerability of stream organisms to climate change across latitudinal and elevation gradients by first understanding how temperature and disturbance shape stream biodiversity and function. Through several integrated research questions, we will build links between multiple levels of evolutionary, organismal and ecological biology using a combination of field surveys, in situ physiological tolerance measurements, and community/ecosystem scale mesocosm and whole stream experiments.

To complete this highly integrative project, we are recruiting several PhD students with strengths in one or more of several areas (physiological ecology, aquatic insect systematics, experimental field ecology). We seek students who are enthusiastic about working in remote streams in Colorado and Ecuador, who speak Spanish, and who are excited about interacting with a team of principals from multiple universities and with international collaborators.

Specifically we seek individuals with the following expertise:

(1) Integrative Evolutionary Ecology (PhD position at Colorado State University) - Interest in local adaptation and phenotypic plasticity in physiological traits related to thermal and hypoxia tolerance and how individual speciesâ performance may translate to whole community or ecosystem response to climate change. Ideal candidates would be familiar with physiological techniques (e.g. respirometry, organism and/or ecosystem metabolism), and would have a good working knowledge of both evolutionary and ecological theory. Instructions for applying to this PhD position are available on the CSU Graduate Degree Program in Ecology (GDPE) Prospective Student page: http://www.ecology.colostate.edu/-prospective.php. Applications will be accepted through January 31, 2011. Please also email your CV and a Letter of Interest directly to Cameron Ghalambor (Cameron.Ghalambor@Colostate.edu) or LeRoy Poff (LeRoy.Poff@Colostate.edu).

(2) Aquatic Insect Systematics and Population Genetics (PhD position at Colorado State University) - Expertise in aquatic insect identification and taxonomy using morphological traits and experience in molecular systematics lab techniques and analysis. This student will link morphological and molecular data for species discovery in tropical and temperate streams to help characterize biodiversity patterns across elevation gradients at different latitudes. Additionally, the student will use comparative landscape genetics to test hypotheses about dispersal patterns and rates in tropical and temperate aquatic insects. Instructions for applying to this PhD position are available on the CSU Graduate Degree Program in Ecology (GDPE) Prospective Student page: http://-www.ecology.colostate.edu/prospective.php. Applications will be accepted through January 31, 2011. Please also email your CV and a Letter of Interest directly to

Chris Funk (Chris.Funk@Colostate.edu) or Boris Kondratie ff (Boris.Kondratieff@Colostate.edu)

(3) Stream Ecosystem Ecology (PhD position at University of Nebraska, Lincoln) - Interest in understanding the role of organism traits (physiology, trophic, dispersal) in influencing stream ecosystem structure and function, and in how ecosystem features condition the vulnerability of species to future warming and changes in hydrologic disturbance regime. Ideal candidates will have experience in conducting experiments in mesocosms and/or whole streams. Instructions for applying to this PhD position are available on the UNL SNR Graduate School Application page: http://-snr.unl.edu/gradstudent/future/index- future.asp. Applications will be accepted through January 31, 2011. Please also email your CV and a Letter of Interest directly to Steve Thomas (sthomas5@unl.edu).

Start date: Ideally, as early as June 2011.

See the project webpage at http://-rydberg.biology.colostate.edu/ ~ poff/EVOTRAC/ for further information on project details.

kelly.zamudio@cornell.edu kelly.zamudio@cornell.edu

EastCarolinaU Evolution

GRADUATE STUDIES IN ECOLOGY AND EVOLUTION AT EAST CAROLINA UNIVERSITY

The graduate program in the Department of Biology at East Carolina University invites applications from prospective PhD and MS students for fall 2011. East Carolina University is the third largest campus in the University of NC system and has an active and well-supported group of faculty working in the areas of ecology and evolution. Students accepted into the Interdisciplinary Doctoral Program in Biological Sciences will receive two years of support with no teaching obligations and at least five years of support total, at a very competitive level. We also offer two MS programs (TA-ships readily available) and have students in ECU's Coastal Resource Management PhD program. Graduate students will be encouraged to participate in the newly formed North Carolina Center for Biodiversity (NCCB) at East Carolina University. Goals of the NCCB include training graduate students in biodiversity research and providing them opportunities to participate in related outreach. Our students enjoy living in the affordable community of Greenville, NC, participating in seminar series and journal clubs that feature research in ecology and evolution, and having access to several natural areas, universities and research centers located in central and eastern NC. We have faculty members that conduct research across the globe and excellent opportunities exist to work in terrestrial, freshwater, wetland and marine systems. Application deadlines vary with particular programs but students applying early will have a greater chance of receiving financial support from the university. Please visit http://www.ecu.edu/-biology/ < http://www.ecu.edu/biology/ > to find out more about our department, faculty and graduate programs. In addition to visiting departmental and faculty websites, please contact prospective mentors directly or our director of graduate studies, Terry West (westt@ecu.edu), for more information.

Departmental faculty with expertise in ecology and evolution include:

Jason Bond: Arthropod systematics. Mark Brinson: Wetland restoration ecology, ecosystem ecology. David Chalcraft: Population and community ecology; ecological aspects of biodiversity. Robert Christian: Systems and network theory; ecology of coastal ecosystems. Lisa Clough: Marine benthic ecology (Arctic and Atlantic). Ashley Egan: Plant bioinformatics, evolutionary genomics and systematics. Carol Goodwillie: Plant mating system evolution, plant population ecology and genetics. Pat Harris: Fish ecology and life history, fisheries management. Jinling Huang: Evolutionary genomics and bioinformatics. Claudia Jolls: Plant evolutionary ecology and conservation. Dave Kimmel: Plankton ecology. Trip Lamb: Systematics and phylogeography. Joe Luczkovich: Food web ecology and fish bioacoustics. Jeff McKinnon: Sexual selection, speciation, mainly in fish. Sue McRae: Behavioral ecology and social evolution in birds. Anthony Overton: Larval fish ecology, fisheries biology. Enrique Reyes: Landscape ecology, ecological modeling, coastal management. Roger Rulifson: Fish ecology and fisheries. Matt Schrenk: Microbial ecology, geo-microbiology. Ed Stellwag: Vertebrate evo-devo and cis-regulatory network evolution. John Stiller: Molecular evolution and comparative genomics. Kyle Summers: Evolution of color, behavior in poison frogs; evolutionary medicine. Heather Vance-Chalcraft: Community ecology. Terry West: Human impacts on coastal ecosystems. Baohong Zhang: MicroRNA evolution, comparative genomics, and molecular genetics. Yong Zhu: Comparative evolution and molecular functions of hormones and receptors.

"McKinnon, Jeffrey" <MCKINNONJ@ecu.edu>

Edinburgh Microbial Evolution Virulence

Edinburgh.Microbial.Evolution.Virulence

UK research council funding: Full Stipend for UK students (fees only for EU students).

The Brown lab is seeking an outstanding candidate to put forward for a PhD on the evolutionary biology of bacterial infections. Interested candidates should contact Sam Brown (sam.brown@ed.ac.uk) ASAP, and no later than 15 Jan 2011, and must also apply online - http://www.ed.ac.uk/studying/postgraduate/-finder/details.php?id=3D8 Interviews will be held week beginning 14th February 2011.

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Evolution of cooperation, communication and virulence in microbes

This project centres on two key themes in evolutionary biology: the evolution of cooperation and the evolution of virulence. These two themes combine strongly when applied to microbial pathogens, as microbes must often cooperate, communicate and coordinate in order to successfully exploit their hosts.

The Brown lab develops simple theoretical models (rooted in evolutionary ecology and epidemiology) to dissect the molecular, ecological and evolutionary interplays of host-pathogen systems. We actively seek collaboration with experimentalists and bioinformaticians to test our predictions and to discover new puzzles.

The project will specifically focus on one or two of the following major challenges -

1) Understand the vital role that mobile genetic elements (molecular parasites of bacteria, such as plasmids and temperate phages) play in driving the evolution of microbial cooperative behaviours, antibiotic resistance and virulence (e.g. ref 1).

2) Understand the complex multi-species social dynamics (facilitation, competition) governing the establishment, maintenance and transmission of pathogens in the gut and nasopharynx (e.g. ref 2).

3) Understand the importance of the molecular and regulatory properties of public goods in shaping the evolution of microbial cooperation and communication (e.g. ref 3).

Across all of these challenges, a recurring theme is the exploration of novel therapeutic strategies to exploit our emerging understanding of microbial social life (ref 4).

For more information and references, see http://-www.zoo.ox.ac.uk/group/brown/index.htm (the lab is moving to Edinburgh in the New Year)

* Notes* This opportunity is only open to UK nationals (or EU students who have been resident in the UK for 3+ years) due to restrictions imposed by the funding body.

*[1] Nogueira T, Rankin DJ, Touchon M, Taddei F, Brown SP, Rocha EPC. 2009. Horizontal gene transfer of the secretome drives the evolution of bacterial cooperation and virulence. Current Biology** 19, 1683-1691. **

[2] Lysenko ES, Lijek RS, Brown SP & Weiser JN. (2010). Within-host competition drives selection for the capsule virulence determinant of Streptococcus pneumoniae. Current Biology 20, 1222-1226. **

[3] R Kümmerli, SP. Brown (online early) Molecular and regulatory properties of a public good shape the evolution of cooperation. P.N.A.S. doi: 10.1073/pnas.1011154107 **

[4] Brown SP, West SA, Diggle SP, Griffin AS. 2009. Social evolution in microorganisms and a trojan horse approach to medical intervention strategies. Phil. Trans. Roy. Soc. Lond. B. 364, 3157-68.*

* *

– Sam Brown Wellcome Trust Career Development Fellow

new address Centre for Immunity, Infection and Evolution University of Edinburgh West Mains Road, Edinburgh EH9 3JT http://ciie.bio.ed.ac.uk/-sam.brown@ed.ac.uk

temporary address Department of Zoology, University of Oxford South Parks Rd, Oxford OX1 3PS, UK +44 (0)1865 281062, www.zoo.ox.ac.uk/staff/-academics/brown_s.htm sampaulbrown@gmail.com

FlindersU 3 GenomicsAdaptation

PHD POSITION 1, ECOLOGICAL GENOMICS:

âGenomics of Adaptation to Environmental Change of an Ecologically Important Non-Model Aquatic Organ-

ismâ

We are looking for a bright candidate for one PhD position associated with ARC Discovery funded project DP110101207.

The successful applicant will have a strong interest in population and evolutionary genomics/genetics and natural history. She/he will join an international team to study adaptation to environmental change using next-generation ecological genomic approaches. The position will be supervised by Assoc Prof Luciano Beheregaray â Head of the Molecular Ecology Lab (www.bio.mq.edu.au/-molecularecology/index.htm) now based at Flinders University (Adelaide) and by Prof Louis Bernatchez â Director of the Canadian Research Chair in Genomics and Conservation of Aquatic Resources (www2.bio.ulaval.ca/louisbernatchez/presentation.htm) at UniversitÃ© Laval (Quebec). The team also includes scientists from United States and other Australian universities with experience in field and lab based research on natural selection, behavioural ecology and biogeography. The position will be based at Flinders and includes visits to the Bernatchez Lab at Laval. The project will offer opportunities to work with novel genomic technologies, high throughput genotyping, gene expression assays, and to conduct field work in eastern Australia.

Project summary Understanding whether natural populations will be able to adapt to rapid environmental change is a major research priority in the 21st century. We will establish a program in ecological genomics to understand population adaptations and responses to environmental change in an ecologically important group of aquatic organisms. Powerful tools will be used to assess functional genomic variation in wild populations and under modified laboratory conditions. This will enable us to pinpoint factors shaping local adaptation over a large section of eastern Australia and to assess the potential of populations to respond to rapid environmental change. The ingenuity to make this program successful is based on unique features of our study system (e.g. replicated populations of two well-characterized rainbowfish phenotypes shaped by natural selection) and the connection with an international team with leadership in synthesizing next-generation sequencing data.

Application guidelines The ideal candidate will hold a First Class Honours degree (or equivalent such as MSc) and have prior experience in related research areas. The PhD student will have input in fieldwork and will be responsible for collection and analysis of gene expression data and manuscript writing. Starting date is April 2011 (this can be negotiated) and the annual full-time stipend is AUD$22,500 tax-free. Applicants should e-mail a letter (see below for address) summarizing research interests and experience along with a CV including the names, addresses and e-mails of three referees. IMPORTANT NOTE FOR INTERNATIONAL STUDENTS: Flinders University has a very competitive PhD scholarship program for non-domestic students and only applicants with strong track record (i.e. 4 peer-reviewed publications or more) are encouraged to apply.

Applications should be sent by email to: Associate Professor Luciano Beheregaray Email: luciano.beheregaray@flinders.edu.au

School of Biological Sciences Flinders University SA 5001 Adelaide Australia Telephone: +61 08 8201 5243

Review of applications will continue until a suitable candidate is identified.

PHD POSITION 2, GENETIC CONNECTIVITY IN THE SEA:

âHistory, transport, or temperature: solving the riddle of Australia's temperate marine biodiversityâ

We are looking for bright candidates for two PhD positions to work on studies of connectivity of marine organisms, associated with ARC Discovery funded project DP110101275.

Project summary Understanding the forces driving population connectivity in the sea, and the spatial and temporal scales over which they operate, is a central goal of marine ecology. Such knowledge is key for developing managementstrategies for fisheries, and for designing marine reserves that protect and enhance biodiversity.This study will address two issues of global significance: First, we will test the hypothesis that oceanography(rather than historical isolation or temperature alone) plays a key role in shaping population connectivity.Second, we will reconcile the relative roles of evolutionary (historical) and ecological (contemporary) processesthat shape biodiversity in marine systems.Our proposal will address these issues using large-scale population DNA datasets from multiple codistributedspecies, powerful analytical tools in genetics and oceanography, and computational modelling. The uniquestudy-design proposed here capitalises on a system of ânaturally replicated laboratoriesâ (i.e. the east vswestcoasts of Australia),

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FreeUBrussels VUB MarinePopulationGenetics

The Faculty of Sciences and Bio-engineering sciences, and in particular the Department of Biology of the "Vrije Universiteit Brussel", Brussels, Belgium, has a vacancy for a full-time

TEACHING ASSISTANT (MARINE BIOLOGY / POPULATION GENETICS) (Bijzonder Assisterend Academisch Personeel, BAAP)

Starting date: 01/02/2011

Duration: The initial appointment is for two years, but can be renewed twice for a total of 6 years.

Position description: We are inviting applications of outstanding young scientists in the field of marine biology. Applicants are expected to teach courses in the 1st, 2nd and 3rd bachelor and to conduct PhD research on population genetics and/or ecology of marine fauna. The first four years are a scholarship of 1860 Euro/month (net), the last two years are a position as Academic Assistant.

Requirements: A completed MSc in Marine Biology or a relevant field is required. The candidate has experience in teaching, is able to motivate students, and has excellent knowledge of Dutch and English. Ability of teaching in Dutch is a prerequisite.

Information in Dutch can be found at http://aivpc34.vub.ac.be/Vacatures_AP/FMPro?-db=Vac_AP.FP3&-format=record_detail.html&RECID=1978&-find For further information please contact: Prof. Dr. Marc KOCHZIUS Marine Biology Vrije Universiteit Brussel Pleinlaan 2 B-1050 Brussel Tel: +32 (0)2 629 34 06 marc.kochzius@vub.ac.be

Please submit your application together with a curriculum vitae not later than 07.01.2011 to: Prof. Dr. Ludwig TRIEST Algemene Plantkunde en Natuurbeheer (APNA) (Plant Science and Nature Management) Vrije Universiteit Brussel Pleinlaan 2 B-1050 Brussel Tel: +32 (0)2 629 34 21 Fax: +32 (0)2 629 34 13 ltriest@vub.ac.be

Marc Kochzius <kochzius@uni-bremen.de>

MemorialU FishEvolution

We are seeking a Ph.D. student to work on questions related to phenotypic plasticity, within the evolutionary ecology of fishes research group led by Dr. Craig Purchase at Memorial University. Information about our group can be found by visiting www.ucs.mun.ca/~cfpurchase Interested students should contact Dr. Purchase via email for more information.

Review of potential applicants will begin Dec 20 and continue until the position is filled.

Dr. Craig Purchase Assistant Professor, Biology Department Memorial University of Newfoundland

St. John's, Newfoundland, A1B 3X9, Canada T: (709)864-4452, F:(709)864-3018 www.ucs.mun.ca/~cfpurchase

Craig Purchase <purchasecraig@hotmail.com>

MiddleTennesseeStateU EvolutionaryGenetics

Doctoral Assistantships in Molecular Biosciences (Ecology/Evolutionary Biology emphasis) at Middle Tennessee State University, Murfreesboro, Tennessee, USA. ** Applications for Fall 2011 **

The Ph.D. program in Molecular Biosciences is accepting applications for students entering Fall 2011. This recently launched program is interdisciplinary in scope focusing on the study of biological problems by utilizing a molecular approach. Currently, faculty in the Ecology and Evolutionary Biology group are actively recruiting Ph.D. students. Potential applicants interested in molecular ecology, evolutionary genetics, systematics, or physiological ecology are encouraged to directly contact the faculty participating in the program (see http://frank.mtsu.edu/~mobi/EEO%20index.html for a list of faculty and research interests). Graduate Teaching Assistantships are also being offered for funding up to 5 years with stipends of $18,000 per year (and tuition waiver). Go to http://www.mtsu.edu/graduate/gtas.shtml to apply for a Graduate Teaching

Assistantship and to http://www.mtsu.edu/graduate/-apply.shtml to apply to the program. The application deadline for application to the program and Graduate Teaching Assistantship is January 31, 2011. For additional information about the program, see http://www.mtsu.edu/graduate/mbsphd/ and http:/-/frank.mtsu.edu/~mobi/index.html Sarah Bergemann Middle Tennessee State University Department of Biology Davis Science 128 PO Box 60 Murfreesboro TN 37132 sbergema@mtsu.edu PH: 615-494-7634 Office: 230A Jones Hall

sbergema@mtsu.edu

NorthCarolinaStateU InsectEvolution

Graduate assistantship in Behavioral, Chemical, and Evolutionary Ecology

Position Description: This is an NSF-funded project. The Graduate Student will work with C. Schal (NCSU) and A. Groot (NCSU, Max Planck Institute for Chemical Ecology [MPICE] in Jena, Germany, and University of Amsterdam). In many moth species, male pheromone is important for species-recognition and female acceptance of males. However, despite the recognition that males invest disproportionately in the tissues that produce these pheromones, their roles in advertising male quality and guiding female mate choice have not been considered. This project addresses two major questions: (a) How does natural variation in close-range sexual signals affect female choice in moth species where the male pheromone resembles the female pheromone? and (b) Is the production of male sexual signals linked to production of female signals in these species? Specifically, the graduate student, working in collaboration with a postdoc, will: (1) chemically identify the close-range male pheromones in two moth species (fall armyworm Spodoptera frugiperda, and tobacco budworm Heliothis virescens), (2) quantify the magnitude of between-strain intraspecific variation in the male pheromones, and (3) evaluate what variable features of the male pheromone contribute to female choice.

Portions of this project will be conducted at the MPICE and University of Amsterdam, providing a unique opportunity to be trained and conduct research in an international collaborative setting.

Application: Interested students should contact Coby Schal, Department of Entomology, North Carolina State University: coby_schal@ncsu.edu.

To apply to NCSU's Entomology Department: http:/-/www.cals.ncsu.edu/entomology/misc/app-forms NCSU has a strong PhD program in entomology, providing an excellent intellectual, collaborative training environment (http://www.cals.ncsu.edu/-entomology/).

The student will participate in the W.M. Keck Center for Behavioral Biology (http://www.cals.ncsu.edu/-beh_bio/), a multidisciplinary program that facilitates interdepartmental training and collaborative research in the fundamental principles that govern animal behavior.

Applications will be considered until a suitable candidate is found and the position is filled.

Coby Schal, Ph.D Blanton J. Whitmire Distinguished Professor Department of Entomology, 3107 Gardner Hall Campus Box 7613, 100 Derieux Place North Carolina State University Raleigh, NC 27695-7613 office: (919) 515-1821 lab: (919) 515-1820 fax: (919) 515-7746 email: coby_schal@ncsu.edu WWW: http:/-/www.cals.ncsu.edu/entomology/schal

NorthernMichiganU FishPopulationGenetics

We are seeking a MS student in Biology at Northern Michigan University to work on a project describing the population genetics of native brook trout in tributaries of Lake Superior, to start Fall 2011. This project is part of the coaster brook trout rehabilitation program, and is a collaboration between the laboratories of Kate Teeter, Jill Leonard, and the National Park Service. This position will involve substantial laboratory work and some field work during the summer of 2012. Support for this position includes two years of support during the academic year as a teaching assistant (tuition wavier and stipend), and summer support during the summer of 2012.

Required minimum qualifications: - Experience with basic molecular genetic techniques, including DNA extraction and PCR - Bachelor's degree in Biology or related field - Undergraduate GPA of 3.0 and GRE scores available - Interest in fisheries field studies - Other requirements for admission to MS program - see http://webb.nmu.edu/Departments/Biology/-

SiteSections/Students/GradStudies.shtml Desired qualifications: - Expertise in fisheries - Experience with microsatellite genotyping - GPA of 3.3 and 1200 GRE score

To apply, please submit a statement of interest, transcripts, GRE scores, and contact info for three references electronically to Kate Teeter at kteeter@nmu.edu, by January 14th, 2011. NMU is an equal opportunity, affirmative action employer.

Katherine C. Teeter Assistant Professor Department of Biology Northern Michigan University

kate.teeter@gmail.com

QueensUBelfast EvolutionPaternalCare

PhD Project Details

Dept/School School of Biological Sciences, Queen's University Belfast PhD Supervisor(s) Dr I Capellini Prof R W Elwood

Funding Availability Competition Funded PhD Project (European/UK Students Only)

Application Deadline 10 January 2011

Evolution of paternal care and infanticide by males in mammals

Paternal care and infanticide by males lie at opposite ends of a continuum of male behaviour towards infants. Hypotheses to explain the evolution of paternal care include enhanced offspring survival, male reproductive strategy to guarantee future mating opportunities or to reduce sperm competition. These hypotheses make different predictions in relation to the conditions that favoured the evolution of paternal care, such as certainty of paternity, mating system, ability of males to monopolize receptive females, presence of alternative strategies to secure paternity or simply the lack of alternative mating opportunities. Likewise, infanticide by males is supposed to enhance the likelihood of paternity of infanticidal males and its occurrence is predicted when females have relatively long lactation, are polyestrous, reproduce aseasonally, and can be monopolized.

Studies on individual species found support for each of these hypotheses but the generality of patterns and the ultimate causes of paternal care and infanticide by males remain elusive. How these behaviours associate with and affect maternal reproductive traits, such as interbirth intervals, oestrous type, polyandry, have been little investigated, and little is known about if and how paternal care and infanticide by males are evolutionary associated.

By using phylogenetic comparative methods and explicitly accounting for the species' evolutionary history, this project is the first to comprehensively investigate the evolution of paternal care and infanticide by males and its implication for female reproduction in mammals.

Funding Notes DEL funded (Department for Employment and Learning Studentships)

For further information on this project, please contact Dr Isabella Capellini (Isabella.Capellini@dur.ac.uk) or Prof. Robert Elwood (R.Elwood@qub.ac.uk)

For further information on eligibility for the above funding, please visit the following website:

http://www.delni.gov.uk For further information about the School, please visit the School of Biological Sciences website:

http://www.qub.ac.uk/bb – Isabella Capellini, PhD

Department of Anthropology Durham University Dawson Building, South Road Durham DH1 3LE (U. K.)

***** NOTE: CHANGE OF ADDRESS FROM JAN 2011 ***** School of Biological Sciences, Queen's University Belfast 97 Lisburn Road, Belfast BT9 7BL (U. K.)

http://www.dur.ac.uk/isabella.capellini/ http://www.dur.ac.uk/anthropology/staff/profile/?id=2366 Phylogeny of Sleep Database http://www.bu.edu/phylogeny/ Evolutionary Architecture of Reproduction website http://www.dur.ac.uk/reproductionproject/

Isabella Capellini <isab972@yahoo.co.uk>

SELouisianaU LifeHistoryEvolution

Masters in Evolutionary Biology Project: The Evolution of Life History Traits in a Morning Glory Rick E. Miller's Lab Southeastern Louisiana University

We invite a highly motivated graduate student (masters degree) to participate in a research project examining the evolution of life history traits and flower production in the Japanese morning glory, Ipomoea nil. I. nil is a morning glory common in Mexico and adjoining regions

and has spread via anthropogenic dispersal throughout the world. It is a highly variable species and exhibits interesting patterns of variation in life history traits. We are carrying out greenhouse and garden experiments to evaluate variation among these traits and evaluate specific hypotheses about life history variation. In addition to evolutionary ecology investigations of this species, we have ongoing research in phylogeography and the systematics of Ipomoea nil and its relatives based on sequence data from, in part, anthocyanin regulatory genes.

Other research in our lab includes the systematics of morning glories, molecular evolution of anthocyanin pathway regulatory genes, phylogeography of morning glory species, and additional studies in evolutionary ecology. Our lab includes masters students, but also an active group of undergraduate research assistants.

Teaching assistantships in our graduate program are available for support.

Hammond is located (on solid ground) about 50 miles north of New Orleans and east of Baton Rouge. Southeastern Louisiana University is primarily an undergraduate institution, but the Department of Biological Sciences has a strong group of research-oriented faculty. Our masters degree is an excellent stepping stone towards a Ph.D. or also is a good terminal degree, depending on your career considerations.

The application deadline date for regular admission to the department is 1 February, for students to begin in the Fall 2011. The admissions requirements are modest including a Bachelor's degree, a minimum GPA of 3.0, a minimum score of 1,000 (verbal + quantitative) on the GRE. However, for consideration for a teaching assistantship a stronger academic record is helpful.

For more information about the details of the graduate program, please consult our website about Graduate Degrees in the Biology Department.

http://www.selu.edu/acad_research/depts/biol/-grad_degree/index.html If you are interested in a applying for a masters degree in plant evolution and systematics:

Please contact: Dr. Rick E. Miller Department of Biological Sciences Southeastern Louisiana University Hammond, LA 70401 985 549-5556 Email: rickmiller@selu.edu http://www2.selu.edu/-Academics/Faculty/rickmiller/ rickmiller@selu.edu

SELouisianaU PlantEvolSyst

Masters in Biology Project: Genetic Structure and Phylogeography of a Hybridizing Species Complex Rick E. Miller's Lab Southeastern Louisiana University

We invite a highly motivated graduate student (masters degree) to participate in a research project examining the genetic structure and phylogeography of a group of closely related morning glories (Ipomoea batatas and its relatives). These species form a hybridizing complex. We have ongoing research examining the genetic structure of populations of the 15 named species in this complex, as well as the phylogeography of populations of these species. The next step in this investigation will be examining interfertility among the members of this complex and determining how crossability may be related to morphological differentiation and geographic location. Specifically, this research will involve a greenhouse study drawing on our excellent collection of samples of morning glories of Ipomoea section Batatas from throughout the world.

Other research in our lab includes the systematics of morning glories, molecular evolution of anthocyanin pathway regulatory genes, phylogeography of morning glory species, and additional studies in evolutionary ecology. Our lab includes masters students, but also an active group of undergraduate research assistants.

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For more information about the details of the graduate program, please consult our website about Graduate

Degrees in the Biology Department.

http://www.selu.edu/acad_research/depts/biol/-grad_degree/index.html If you are interested in a applying for a masters degree in plant evolution and systematics:

Please contact: Dr. Rick E. Miller Department of Biological Sciences Southeastern Louisiana University Hammond, LA 70401 985 549-5556 Email: rickmiller@selu.edu http://www2.selu.edu/-Academics/Faculty/rickmiller/ rickmiller@selu.edu

UAdelaide AncientDNA

4 PhD positions are currently available at the Australian Centre for Ancient DNA, University of Adelaide

1) Arctic climate change/Genomics/Ancient DNA

3 year PhD project in Australia and the Yukon Territory, Canada

A 3 year, ARC-funded PhD project is available at the University of Adelaide, Australia. The project will analyse genomic DNA extracted from frozen seeds and bones preserved in Arctic permafrost for over 100,000 years to perform a detailed genetic analysis of how plants and animals respond to climate change over short time intervals. Specifically, we will ask whether the response is to adapt genetically, or shift ranges - as is generally assumed. We will use powerful new genomics methods to generate unprecedentedly large amounts of neutral and coding data, and apply advanced population genetics analyses to perform the first detailed analysis of how species adapt across time and space. This project promises to provide unique views of the potential of plants and animals to adapt to climate change, and the use of ancient samples to provide detailed views of genomic evolution.

The project partners include Dr Grant Zazula (Yukon Paleontologist), Prof Joe Cook (UNM), and Prof. Charles Davis (Harvard).

Project PI: Prof. Eric Dechaine, Western Washington University, http://myweb.facstaff.wwu.edu/~dechaie/, dechainelab@gmail.com

Co-PI: Prof. Alan Cooper, University of Adelaide, South Australia, http://www.adelaide.edu.au/acad/-, alan.cooper@adelaide.edu.au

2) Environmental Genomics

3 year PhD project in Australia

Approximately three ARC LINKAGE funded PhD projects (3 years) are currently available within a project to apply high-throughput sequencing approaches to the analysis of environmental samples and develop a new range of methods to perform biodiversity surveys, taxonomic discovery, and environmental impact reports for Soils, Water, Grasses and Antarctic biota. The project will employ multiplexed PCR, 2nd/3rd Gen Sequencing, Bioinformatics and Phylogenetics to develop novel systems for rapid and accurate biodiversity assessment. Key topics within the project are the analysis of Australian soils, natural and re-use water supplies, Australian native grasses, and Antarctic biota. A strong molecular ecology/biology and/or bioinformatics background is required. The project is a $1M Australian Research Council-industry partnership, and is open to international students, although Australian and New Zealand residents have additional funding possibilities.

Project partners include South Australian Water, Primary Industries Research South Australia, South Australian Museum, Dept. of Environment and Natural Resources, Australian Federal Police.

Project PI: Prof. Alan Cooper, University of Adelaide, South Australia, http://www.adelaide.edu.au/-acad/, alan.cooper@adelaide.edu.au

Prof. Alan Cooper ARC Future Fellow Director, Australian Centre for Ancient DNA

Email: alan.cooper@adelaide.edu.au Ph: 61-8 -8303-5950/3952 Fax: 61-8-8303 4364

http://www.adelaide.edu.au/acad/ Mailing Address: Darling Building University of Adelaide North Terrace Campus South Australia 5005 Australia

alan.cooper@adelaide.edu.au

UBarcelona GeneNetworkEvolution

Universitat Autonoma de Barcelona Department of Genetics and Microbiology

We are looking for a student, preferably a biologists, to start a PhD in systems biology and evo-devo about:

-Gene network simulation in pattern formation, morphogenesis and morphological 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 of pattern formation and morphogenesis in embryonic space. The idea, developped in previous work, is that morphological variation arises as variation in those developmental processes and that then by understanding those one can understand which morphological variation is possible in each generation. The direction of morphological change in evolution is determined by both which morphological variation arises and which of this variation is filtered out by natural selection. Our goal is to understand this process by making in silico evolution of developmental gene networks able to produce pattern formation and morphogenesis (thus morphological variation). This wil l also be applied to study the evolution and development of specific mammalian and Drosophila organs.

Programming skills or a willingness to acquire them are required.

The grant is provided by the Spanish ministry of science and innovation (4 years).

For an outline of the groups research: http:/-/bioinf3.uab.cat/grupgbe/index.php?option=-com_content&task=view&id=64&Itemid=104 For further inquiries:

isaac.salazar@uab.cat

To apply send CV and a letter explaining the reasons why you may want to undertake a PhD in that or a similar topic

Genomics, Bioinformatics and Evolution Group

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

The Autonomous University of Barcelona is a public university located 20 kms north of Barcelona centre. It has its own “green” campus.

Note: There is a similar but independent post for 3D morphometrical analysis of morphological variation

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

UBasel HostMicrobeInteractions

2 PhD positions in evolutionary ecology of host-microbiota interactions are available in the research group of Dieter Ebert (University of Basel, Switzerland). The research group has an emphasis on the evolution and genetics of host-symbiont interactions (http://evolution.unibas.ch/).

We are looking for highly motivated candidates with an interest in evolutionary and microbial genomics, metagenomics and microbiota community structure. Knowledge in any of the following fields is helpful: microbiology, bio-informatics, population genetics, experimental evolutionary ecology, metagenomics and evolutionary genomics. The positions are funded to work on the functional aspects of host-microbiome interactions in Daphnia. The suggested methodology includes comparative meta-genomics, experimental studies of host-microbe/microbiota interactions, QTL typing, and population surveys. Previous experience with Daphnia is not required, but excellent written, verbal, and interpersonal skills, good work ethics, and the ability to think creatively and critically are desired. The working language at the institute is English. Starting dates are flexible, from April 2011 onwards.

Please send your application by E-mail to Dieter Ebert (dieter.ebert@unibas.ch). Applications should include a single pdf-file containing CV, a list of publications (if any) 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 20 January 2011 will be given full consideration. Interviews will be held in the second half of February 2011.

Note: We are also looking for two postdocs and a technician on the same project (see separate announcement).

Contact information:

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

dieter.ebert@unibas.ch

UCaliforniaLosAngeles MedicalEvolution

If you know any promising undergraduate students that are interested in pursuing a PhD in biomath-

ematics as applied to evolutionary and biomedical problems, please encourage them to consider the Biomathematics graduate program at UCLA Medical School (http://www.biomath.ucla.edu/ and http://www.biomath.ucla.edu/grad/prospective) . We teach students how to use mathematical and statistical tools to understand biological systems. Attached is a flyer with more information about the program. Prospective students can contact me if they have any questions. Thanks in advance.

Van Savage Assistant Professor Department of Biomathematics David Geffen School of Medicine at UCLA

Van Savage <vsavage23@gmail.com>

UCLouvain DispersalEvolution

3 PhD positions are available at the Biodiversity Research Centre, Earth and Life Institute, Université catholique de Louvain (Louvain-la-Neuve, Belgium: www.uclouvain.be/en-bdiv).

These PhD positions are organized within the framework of a collaborative 5-year research programme by a local consortium of three collaborating research groups, including faculty (Profs. Hans Van Dyck, Nicolas Schtickzelle and Caroline Nieberding), postdocs and PhD students. That program is entitled: "Integrating Evolution into Ecological Responses: Changing Life Styles of Organisms in Changing Environments". The overall aim is a better understanding of the role and mechanisms of plasticity for present and future adaptation and survival in changing environments in a series of model organisms (Pararge aegeria & Bicyclus anynana butterflies, Tetranychus urticae mite, and Tetrahymena thermophila ciliate). Different fields will be combined in this program including behaviour, life history, thermal ecology, genetics and genomics. Also the relevance for conservation biology will be explored.

The subjects of the 3 positions are: (1) "Changing butterflies in changing landscapes and climates a test with the speckled wood Pararge aegeria" (2) "Genetic bases and evolution of olfactory communication in the butterfly Bicyclus anynana" (3) "Phenotypic plasticity and evolution of life history traits in Tetrahymena thermophila microcosms"

More details on the project and how to apply are to be found on http://www.uclouvain.be/en-280840.html

nicolas.schtickzelle@uclouvain.be

UGlasgow LymeDiseaseEvolution

The Institute of Biodiversity, Animal Health & Comparative Medicine at the University of Glasgow is advertising three PhD studentships, funded by the Natural Environment Research Council (NERC). Applicants should indicate their preference for which project they would be most interested in, but the most competitive applicants will be chosen.

Reconstructing multi-species transmission networks for Lyme disease pathogens using molecular forensics

Supervisory Team: Roman Biek, Robert W Furness (Institute of Biodiversity, Animal Health & Comparative Medicine)

Lyme borreliosis (LB; Lyme disease'), caused by tick-borne bacterial pathogens in the genus Borrelia, is the most common vector-borne disease of humans in the temperate zone. Wild birds and mammals constitute the natural reservoir of Borrelia, which in northern Europe exists as four genospecies. Vertebrate host species vary greatly in their ability to transmit the different genospecies and to support populations of the vector tick, Ixodes ricinus. Deer, for example, support large numbers of ticks per individuals but generally do not transmit Borrelia. This variability in transmission competence among host species has lead to a controversial "dilution effect" hypothesis, suggesting that pathogen prevalence is reduced where host communities comprise a large proportion of non-competent hosts. Variability in transmission competence among hosts has also raised concerns that environmental changes altering the composition of vertebrate communities could increase the abundance of ti cks and risk of LB. The project will exploit novel and powerful molecular tools to shed new light on this debate. Genetic analysis can reliably reveal from which host species a tick acquired its last blood meal. We will use this forensic approach to test how the composition of natural host communities affects tick feeding and infection patterns and thus opportunities for pathogen transmission and LB risk. A significant part of the study will focus on vertebrate communities on islands containing a relatively small and well-defined set of vertebrate host species. The study will test whether Borrelia prevalence in ticks declines with the proportion of tick meals derived from non-competent hosts as predicted by the "dilution ef-

fect" hypothesis, and will use the relative proportions of tick blood meals obtained from different host species to build empirical multi-species transmission networks, essential for understanding the transmission cycles of Borrelia and other tick-borne pa thogens. These models will be used to explore the ability of different host networks to maintain Borrelia in ticks. The student will receive training in molecular techniques, ecological fieldwork, and modelling techniques and will join a thriving research group of ecologists, evolutionary biologists and epidemiological modellers. The project also involves research collaborators at other institutions (Macaulay Institute - Scotland, INRA - France), creating further opportunities for research training and networking.

Applied evolution: an experimental approach to investigating how the interaction between parasite life history strategies and control measures affects rates of resistance evolution

Supervisory Team: Barbara Mable (Institute of Biodiversity, Animal Health & Comparative Medicine), Jan Lindström (School of Life Sciences), Paul Johnson (Robertson Centre for Biostatistics)

Resistance management is a key concern in human and veterinary medicine and in agricultural production systems. Although theoretical population genetics models predict factors that might influence resistance evolution in pathogens, potential interactions among pathogen attributes (e.g. mating system, life history traits, amount of gene flow between resistant and susceptible genotypes) and specific control measures (e.g., frequency and dosage of chemical applications) remain unclear. This study will take an experimental evolution approach to understanding the influence of such interactions on rates of resistance evolution, using nematodes as a model. Due to the difficulty of manipulating parasites in wild hosts, resistance evolution previously has been studied in the free-living but hermaphroditic and selfing nematode Caenorhabditis elegans. However, since most parasitic nematodes are outcrossing, this study will use Caenorhabditis remanei, whose mating system is more simila r to that of most parasitic nematodes. The rate of evolution of resistance will be evaluated by treating worms with anthelminthics, applied at different dosages and rates, under experimentally varied reproductive modes and population demographics. The project is by nature interdisciplinary and the student will receive training in a wide range of approaches, including experimental design, statistical analyses, experimental evolution, life history and population genetics

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UGroningen MastersEvolBiol

Course: Erasmus Mundus Joint Master in Evolutionary Biology (MEME)

MEME is a two-year research oriented master programme for talented and motivated students who are interested in understanding evolution in all its facets. The MEME programme will address the driving forces of evolution at all levels of organismal organisation (from cells and individuals to populations and ecosystems), and it will allow students to study all kinds of organisms (microorganisms, plants, animals) in all kinds of habitats (marine as well as terrestrial) with a diversity of approaches (field, lab, theory). The focus of the programme is not only on how evolution shaped life on our planet in the past, but also on how understanding the principles underlying evolution can provide

new insights and help to cope with present-day challenges in a variety of fields, including ecology, epidemiology, physiology, immunology, genetics/genomics, bioinformatics, economics and the social sciences.

Only few universities in the world would be able to offer a programme of such broad scope without compromising scientific quality. For this reason, four European universities:

- University of Groningen (Netherlands)

- University of Montpellier II (France)

- Ludwig Maximilians University of Munich (Germany)

- Uppsala University (Sweden)

have joined forces with Harvard University (USA).

Together, this consortium is able to put together an attractive multidisciplinary programme that meets highest standards. All students have to study at at least two partner universities, and they will receive either a joint MSc degree from the whole consortium or double degrees from two partner universities.

Being financed by the European Community, MEME has to satisfy the high quality standards imposed the prestigious Erasmus Mundus Programme. Full scholarships are available for MEME students and will be awarded in a selective procedure.

Starting date: September 2011

Application deadline European and EEA students: January 15, 2011

Application deadline non-European students: January 15, 2011

More information and how to apply: www.evobio.eu Questions about the contents of the programme: Franjo Weissing (f.j.weissing@rug.nl)

Questions about the application procedure: Irma Knevel (i.c.knevel@rug.nl)

Dr Irma C. Knevel Administrative coordinator Erasmus Mundus Master Programme MEME Theoretical Biology Group Centre for Life Sciences P.O. BOX 11103 9700 CC Groningen (The Netherlands)

I.C.Knevel@rug.nl

UHouston EcologyEvolution

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) welcomes applications for its graduate program in Evolutionary Biology and Ecology for Fall 2011. The following faculty in the area of Evolutionary Biology and Ecology have opportunities available for their labs:

Blaine Cole (bcole@uh.edu) - Evolution and social behavior Dan Graur (dgraur@uh.edu) - Theoretical molecular evolution Dan Wells (dwells@uh.edu) - Evolution of development and behavior Diane Wiernasz (dwiernasz@uh.edu) - Sexual selection George Fox (fox@uh.edu) - Experimental evolution and origin of life Gregg Roman (gwroman@uh.edu) - Evolution of behavior Rebecca Zufall (rzufall@uh.edu) - Genome and molecular evolution Ricardo Azevedo (razevedo@uh.edu) - Evolutionary genetics Steve Pennings (spennings@uh.edu) - Community ecology Tim Cooper (tcooper@central.uh.edu) - Experimental evolution Tony Frankino (wafranki@central.uh.edu) - Evolution of complex traits Yuriy Fofanov (yfofanov@bioinfo.uh.edu) - Evolutionary bioinformatics

For more information regarding the Evolutionary Biology and Ecology graduate program at UH see:

http://www.uh.edu/admissions/graduate/ The deadline for application of prospective students is April 1st, 2011, but students are encouraged to apply as soon as possible.

razevedo@uh.edu

ULausanne LizardEvolution

A 3-year PhD position in evolutionary biology is available in the research group of Prof. Patrick S. Fitze (University of Lausanne, Department of Ecology and Evolution www.unil.ch/dee). The position is part of an SNF-funded project aimed at studying the link between evolutionary population dynamics, sexual selection and coloration in the common lizard (Lacerta vivipara).

The project will involve both field and laboratory work. Applied methodologies will include behavioural, paternity and colour analyses. Fieldwork will be conducted over several months per year in the Spanish Pyrenees.

Our international laboratory has a wide range of research interests, ranging from behavioural analyses, to the study of experimental population dynamics, population genetics and phylogenetics. Please browse our group website for further details: http://www.unil.ch/-dee/page81903.html . We are seeking an enthusiastic, highly motivated and creative candidate with keen interest in evolutionary biology, and the capacity to work both independently and as a team member. Applicants must have a MSc in biological sciences with expertise in molecular biology and statistics (knowledge of the R statistical package is an advantage). Good English writing skills are essential. The ideal candidate will have prior experience in experimental design, behavioural and colorimetric analyses, programming, modelling and reptile handling, as well as good communication skills. The working language of the laboratory is English. Knowledge of French and/or Spanish is useful, but not essential.

Applications should be sent by email to Prof. Patrick S. Fitze (Patrick.Fitze@unil.ch). The application should consist of a single pdf-file, including a CV, a letter outlining motivation and research interests (max. 1 A4 page), the names of three referees (including e-mail address and phone number), and a summary of the candidate's MSc or undergraduate project (max. 2 A4 pages). Where relevant, publications should be included at the end of the file. The deadline for application is December 31st 2010. Preferred starting dates are February 1st or March 1st 2011. Short listed candidates will be invited to Lausanne for interview in Jan-

uary 2011. The salary of the successful candidate will be determined in accordance with the guidelines of the Swiss National Science Foundation (www.snf.ch).

The successful candidate will join a bustling research department consisting of 19 research groups with diverse study interests, ranging from evolutionary biology and ecology to applied ecology and conservation biology http://www.unil.ch/dee/page6757.html For additional information, please do not hesitate to contact:

Patrick S. Fitze, Assistant Professor SNF

Department of Ecology and Evolution (DEE) Biophore, University of Lausanne room: 1217 1015 Lausanne phone: + 41 (0) 216924205 Switzerland Fax: + 41 (0) 216924165

http://www.unil.ch/dee/page81901.html
Patrick.Fitze@unil.ch

UNeuchatel LymeDiseaseEvolution

PhD positions in Ecology & Evolution of Lyme disease Department of Biology, University of Neuchâtel

Two PhD positions are available for research on the ecology and evolution of Lyme disease, which is caused by the bacteria, Borrelia burgdorferi, and is transmitted among vertebrate hosts by Ixodes ticks. There are three major areas of research: (1) Climate change is predicted to alter the spatial and temporal distribution of ticks. Changes in the timing of seasonal tick activity patterns will have dramatic consequences for the ecology and evolution of the Lyme disease system. We plan to use an experimental evolution approach to test how different climate change scenarios would affect the evolution of B. burgdorferi. (2) Critical for understanding the ecology of any disease are estimates of host-parasite encounter rates and estimates of the parasite's effect on the host's vital rates (survival and reproduction). We plan to use field-based surveys and experiments to estimate these parameters under natural conditions. (3) Ticks host a community of microorganisms with conflicting modes of transmission. We are interested in investigating the interactions between vertically and horizontally transmitted microorganisms and the tick immune system. The University of Neuchâtel has a strong group of parasitologists that study host-vector-pathogen interactions across a wide range of biological organization (molecular biology, physiology, and evolution and ecology).

Job requirements: The position requires an independent, highly motivated, enthusiastic, and scientifically curious individual with a strong background in ecology, evolutionary biology, or related fields. Molecular techniques, field experience, and statistical data analysis skills are all highly useful. The applicant must have a Master's degree. The position requires teaching of undergraduate biology labs in French so French proficiency is required.

Start data: One position is available as early as January 1, 2011, the other on June 1, 2011. Starting dates are flexible and I will wait for outstanding candidates. Salary is determined by the Institute of Biology.

Application requirements: Formal applications should include: (1) a 1-2 page cover letter indicating research interests, (2) your CV (including a list of publications), and (3) two letters of reference. Informal enquiries and formal can be submitted by email to: maarten.voordouw@unine.ch

Maarten Voordouw Institute of Biology University of Neuchatel Rue Emile-Argand 11 CH-2000, Neuchatel Switzerland Tel. +41 (032) 718 3137 www2.unine.ch/labpar/page15585.html

maarten.voordouw@unine.ch

UOxford AvianEvolution

4-year PhD studentship

TOOL USE AND CULTURE IN WILD NEW CALEDONIAN CROWS

PROJECT DESCRIPTION The New Caledonian crow (Corvus moneduloides) is endemic to a remote, tropical island in the South Pacific, where it habitually uses tools for extracting invertebrate prey from deadwood and vegetation. New Caledonian crows exhibit a remarkable degree of behavioural sophistication: they manufacture at least three different tool types (including the most sophisticated animal tool yet discovered); they can modify and combine tools to achieve a goal; and they have even been observed inventing new tool designs to solve novel problems. Perhaps most intriguingly, it has been suggested that wild New Caledonian crows may progressively refine their tool technology through culturally accumulating innovations – a phenomenon hitherto believed to be uniquely human. Most research to date has focused on the species cognitive abilities and on mapping natural variation in tool

morphology, but the evolutionary, ecological and social context of these birds unusual tool-use behaviour remains poorly understood. This PhD project will chart the ecology and behaviour of wild, free-ranging crows, using detailed field observations, systematic surveys, and a suite of novel biologging technologies (including animal-borne video cameras). In addition, specific hypotheses will be examined in controlled experiments with wild and captive crows (the latter will be kept for brief periods of time in field aviaries). Taken together, this observational and experimental research will produce a much clearer picture of the ecological significance of crow tool use, and its possible cultural underpinnings. This PhD project offers exciting opportunities for a keen field biologist: to conduct topical research on animal tool use and culture in a high-profile study system; to join an established, well-funded field research project; to receive training in state-of-the-art ecological research techniques; and to join a young and dynamic research group at Oxford University (head: Dr Christian Rutz).

ESSENTIAL SELECTION CRITERIA – excellent academic track record – demonstrable skill and enthusiasm for fieldwork – ability and willingness to live and work for extended time periods under challenging field conditions (e.g., lone work, research in remote rainforest sites, difficult weather conditions) – conversational knowledge of French, or willingness to learn the language – clean driving licence, and good driving skills – ability to obtain a visa for research in New Caledonia (French overseas territory)

APPLICATION PROCEDURES To apply please use the online application system at: http://-www.ox.ac.uk/admissions/postgraduate_courses/-apply/ . Please remember to quote the studentship reference code DTG10. Any queries regarding the application procedure please contact graduate.office@zoo.ox.ac.uk. The closing date is Friday 21st January 2011. The University of Oxford is an Equal Opportunities employer.

FUNDING NOTES UK Research Council Competition Funded Studentship. These awards are available to UK nationals and EU students who meet the UK residency requirements, while EU students who do not meet the UK residency requirements are eligible for studentships covering tuition fees. Further information can be found at: http://www.bbsrc.ac.uk/funding/studentships/-studentship_eligibility.pdf http://www.nerc.ac.uk/-funding/studentships/studentship_eligibility.pdf Dr Christian Rutz BBSRC David Phillips Fellow

Department of Zoology University of Oxford South Parks Road Oxford OX1 3PS, UK

+44/1865/271179 christian.rutz@zoo.ox.ac.uk www.zoo.ox.ac.uk Neu: GMX De-Mail - Einfach wie E-Mail, sicher wie ein Brief! Jetzt De-Mail-Adresse reservieren: http://portal.gmx.net/de/go/demail Christian Rutz <C.Rutz@gmx.net>

UOxford EvolutionaryEcology

PhD studentship in Evolutionary Ecology

ADMIXTURE, GENETIC DIVERSITY AND THE EVOLUTIONARY DYNAMICS OF COLONIZATION

Species introduced to locations outside of their native range provide outstanding opportunities to study ecological and evolutionary processes. For example, introduced populations frequently encounter novel environments, which enable us to disentangle the genetic and non-genetic factors that promote rapid evolution of adaptation.

At first sight, rapid adaptation to non-native environments may seem paradoxical since a response to selection should be constrained by the loss of genetic diversity typically associated with population bottlenecks. Admixture - the mixing of genotypes from different source populations - could be a solution to this paradox by increasing genetic and phenotypic diversity, reducing inbreeding depression, and thus enhancing the opportunity for evolution. Admixture could therefore cause rapid divergence of introduced populations from their ancestral source. Yet, to what extent admixture occurs in introduced species and the consequences thereof remain poorly understood.

Using a system of > 25 populations of the wall lizard (Podarcis muralis) that have been introduced north of their native distribution, and their source populations in southern Europe, this project will test: (i) for differences in genetic diversity between native (source) and introduced populations; (ii) how these patterns are affected by the number of founders, their origin(s), and admixture of distinct genotypic lineages; and (iii) to what extent admixture - in combination with natural and sexual selection - contributes to the observed phenotypic divergence between native and introduced populations.

This DPhil project provides exciting opportunities to develop a research career in evolutionary ecology by combining field, molecular, and experimental approaches to study the origin and evolution of

phenotypic variation in a non-native species. We are looking for a highly motivated, ambitious candidate with a strong background in evolutionary or molecular biology. The project is funded by grants to Tobias Uller (http://www.zoo.ox.ac.uk/egi/people/-faculty/tobias_uller.htm) from the British Ecological Society and the National Geographic Society. The successful candidate will join an expanding and dynamic research group that focuses on the processes underlying the origin and evolution of phenotypic adaptations to novel or changing environments, based in the Edward Grey Institute within the Department of Zoology, University of Oxford (http://www.zoo.ox.ac.uk/egi/).

To apply please use the online application system at: http://www.ox.ac.uk/admissions/-postgraduate_courses/apply/. Please remember to quote the studentship reference code DTG5. Any queries regarding the application procedure please contact graduate.office@zoo.ox.ac.uk.

For informal discussion regarding the project please contact Dr Tobias Uller, tobias.uller@zoo.ox.ac.uk or Dr Judith Mank, judith.mank@zoo.ox.ac.uk. The closing date is Friday 21st January 2011.

The University of Oxford is an Equal Opportunities employer.

Funding Notes UK Research Council Competition Funded Studentship. These awards are available to UK nationals and EU students who meet the UK residency requirements, while EU students who do not meet the UK residency requirements are eligible for studentships covering tuition fees. Further information can be found at:

http://www.bbsrc.ac.uk/funding/studentships/-studentship_eligibility.pdf http://www.nerc.ac.uk/-funding/studentships/studentship_eligibility.pdf Dr Tobias Uller Edward Grey Institute, Department of Zoology University of Oxford, OX1 3PS Tel: (+44) 01865 281194

tobias.uller@zoo.ox.ac.uk

UppsalaU Systematics

Uppsala University hereby declares the following position to be open for application: PhD student position in Biology with specialization in Systematics

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

This PhD project is an interdisciplinary project, which aims at investigating pollination mechanisms in gymnosperms, mainly Ephedra (Gnetales), from an evolutionary perspective. Pollen transfer, pollen-ovule interactions, ovule defence, and their impact on evolution and species richness will be studied for species with biotic and abiotic pollination. The project includes research and training in physiological, morphological and molecular laboratory techniques, data analyses and presentation of results (scientific publications and oral presentations). Longer periods of field work and laboratory work outside of Sweden will probably be included. The PhD project is a part of Catarina Rydin?s research program, which focuses on phylogenetic and evolutionary patterns in extant and extinct seed plants (see for example, Rydin et al., 2002, 2010; Rydin & Friis 2010).

The ideal candidate should have a Master of Science in Biology (or similar), preferably with emphasis on plant systematics. Priority will be given to students who, in addition have taken courses in ecology and/or plant physiology and statistics at advanced undergraduate level. The project will require an independent and dedicated person, proficient in both written and spoken English. He/she should work well as part of a team but also independently. In filling this position the university aims to recruit the person who, in the combined evaluation of competence, skills and documented qualifications, is judged most suitable to carry out and develop the work-in-hand and to contribute to a positive development of the department.

The PhD-student position is a 4-year appointment and the candidate will primarily devote her/his time to own research studies. Other departmental work, such as educational or administrative can be part of the position (max 20 %). The applicant must be eligible for PhD studies at Uppsala University. Local guidelines at Uppsala University determine the salary levels.

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 (?examensarbete?). 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 Dr. Catarina Rydin, e-mail: catarina.rydin@ebc.uu.se, Phone. 018-471 27 70. 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.

The application should be sent, preferably by e-mail to: registrator@uu.se, or by fax +46-18471 2000, or by mail to: Registrars Office, Uppsala University, Box 256, SE-751 05 UPPSALA, Sweden. In any correspondence please use the reference number UFV-PA 2010/3164. Application deadline on 20 December, 2010.

Catarina Rydin PhD Associate professor Department of Systematic Biology Evolutionary Biology Center Uppsala University Norbyvägen 18D SE-752 36 Uppsala Sweden Tel. +46 18 4712770

Catarina Rydin <catarina.rydin@ebc.uu.se>

UQueensland OctupusEvolution

PhD opportunity commencing in 2011

This will be the first study to comprehensively examine the full taxonomical and biochemical breadth of coleoid venoms. Research will include the first ever comparison of the convergent strategies between Arctic and Antarctic endemic fauna for adaptation to subzero temperatures. Central to the project will be the characterisation of bioactivities of the crude venoms and purified toxins. This will be accomplished by combining proteomic and genomic approaches. Novel small venom peptides will be investigated as potential lead candidates for drug design and development. The multidisciplinary nature of venom research necessitates a collaborative approach that taps into expertise across a wide range of scientific disciplines. Thus, funding is available for travel to collaborators laboratories in Australia and overseas and for fieldwork in locations such as at the University of Queensland research station on Heron Island in the Great Barrier Reef. The results will help us to understand protein evolution, will cast light on the classic problem of how venom systems evolve, and may provide leads in the search for commercially-exploitable venom peptides. An extensive array of samples are already assembled, including over 200 samples of Antarctic octopuses. Additional samples will be field collected during the project and a live research collection will also be maintained by the student.

The student will be based within the University of Queenslands Department of Biological Sciences under the primary supervision of Dr. Bryan Grieg Fry, with co-supervision by Professor Richard Lewis at the Institute for Molecular Bioscience. A 5K top-up scholarship will be offered to the student who successfully obtains a PhD scholarship.

Please email Dr. Bryan Grieg Fry <bgf@unimelb.edu.au> for more information.

Bryan Grieg Fry <bgf@unimelb.edu.au>

URochester InsectEvolGenetics

Opportunities for graduate research are available in my laboratory to study evolutionary genetics and genomics of insects and their microorganisms. Our broad goals are to understand (a) how complex traits (e.g. behavior, development, gene regulation) evolve at the genetic level, and (b) the role of bacterial symbioses in shaping evolution of eukaryotes. Our primary study organisms are the emerging genetic model system Nasonia (a small and laboratory tractable parasitoid insect) and bacterial associates of insects (e.g Wolbachia and Arsenophonus).

This is a particularly exciting time in my laboratory as both Nasonia and symbiosis are rapidly growing as research areas, and this presents special opportunities for motivated individuals to contribute to an emerging field. Nasonia, a genus composed of four closely related species, is an excellent genetic model for studies of complex traits and evolutionary genetics of speciation. Active current projects include identification and cloning of quantitative trait loci (QTL) involved in behavioral and developmental differences between species, studies of epigenetic inheritance (DNA methylation and genome imprinting), and investigations of the role of nuclear-mitochondrial interactions in hybrid incompatibility. Our research on microbial symbioses focuses on two basic questions. First, we wish to determine to what extent lateral gene transfers from bacteria to eukaryotes results in acquisition of novel gene functions. Second, we are investigating how bacteria-host interactions co-evolve, and whether these interactions promote genetic divergence and speciation of hosts.

Interested students should contact Dr. John (Jack) Werren, Biology Department, University of Rochester (werr@mail.rochester.edu).

Further information is also available on our website (http://www.rochester.edu/College/BIO/labs/-WerrenLab/WerrenLab-Home.html).

The University of Rochester has a strong PhD program, particularly in the fields of evolutionary and ecological

genetics, providing an excellent intellectual and training environment (https://blogs.rochester.edu/EEB/).

John (Jack) Werren Professor of Biology University of Rochester Rochester, NY 14627 Office: 585-275-3694 Lab: 585-275-3889 Fax: 585-275-2070 web:

http://www.rochester.edu/College/BIO/-labs/WerrenLab/index.html Jack Werren <werr@mail.rochester.edu>

UToronto EvolutionaryGenetics

The ecological and evolutionary genetics group in the Department of Ecology and Evolutionary Biology at the University of Toronto seeks to continue building its graduate student group. Ours is a dynamic and highly interactive group of talented grads and postdocs in the labs of Profs. Aneil Agrawal, Spencer Barrett, Belinda Chang, Asher Cutter, David Guttman, Alan Moses, Locke Rowe, John Stinchcombe, Art Weis, and Stephen Wright.

Using model and non-model organisms, the group brings the tools of classical genetical analysis and the newer tools of genomics to bear on the fundamental question of origins and maintenance of biodiversity. Current areas of research include:

- Contemporary evolution associated with climate change and biological invasion. - The genetic basis of ecologically important traits. - The role of selection and drift in shaping the genome. - The role of mutation-selection balance in sexual selection and the evolution of sex. - Functional and genomic analyses of host-pathogen systems. - Genomic analyses of adaptive evolution, from the molecular to population levels.

The evolutionary and ecological genetics group resides within a larger, three campus, Graduate Department of Ecology and Evolutionary Biology (links here) composed of 60 faculty. EEB is home to a broad and collegial group of ecologists, systematists, geneticists, behavioural ecologists, and evolutionary biologists. Many projects are conducted at the university's field station which is dedicated to ecological and evolutionary research (The Koffler Scientific Reserve, www.ksr.utoronto.ca). Genomic analyses are supported by the Centre for the Analysis of Genome Evolution and Function (www.cagef.utoronto.ca).

Toronto is a vibrant, multicultural city on the shore of Lake Ontario, with rich cultural options in the arts, music and film, ethnic cuisine and a high quality of life. In close proximity is wilderness country associated with the diverse ecosystems of the Great Lakes and Algonquin Park, which are ideal for wilderness backpacking and canoeing.

Graduate studentships at the University of Toronto come with a guaranteed income. Application procedures can be found here: http://www.eeb.utoronto.ca/-graduate. For further information, contact individual researchers in the group at (http://-www.eeb.utoronto.ca/people/faculty/location/st-george).

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Sent from an old-fashioned desktop computer.

John Stinchcombe Associate Professor Department of Ecology and Evolutionary Biology University of Toronto, 25 Willcocks St. Toronto, ON Canada M5S 3B2

416-946-5986

http://labs.eeb.utoronto.ca/stinchcombe/

UtrechtU EvolutionHumanCognition

PhD studentship, Evolution of Human Social Cognition (Utrecht University, The Netherlands)

Applications are invited for a funded four-year PhD position on the evolution of human social cognition, based at Utrecht University (The Netherlands). The project forms part of a large multi-disciplinary collaboration that is investigating the contribution of different research fields to the understanding of the human mind. This research programme, made up of ten sub-projects, will hire seven PhD students and two postdoctoral fellows in total.

Sub-project description: This project will investigate the combined roles of cultural and genetic evolution in shaping human social cognition, ethics, and norms. It will also investigate the assumptions of current evolutionary approaches to understanding human behaviour, and the way in which public discussions and opinions of human nature are informed by popular accounts of evolutionary biology and cognitive neuroscience. We envisage the work to involve theoretical models of gene-culture co-evolution, combined with experimental studies investigating the assumptions and predictions of

these models. Experimental and survey work will investigate how popular reports of research on the evolution of human cognition influence public attitudes to science and to society. The precise approach taken will depend on the interests and background of the PhD candidate.

Requirements: MA or MSc in biology, psychology, anthropology or philosophy, or a related discipline, with a clear interest in human cognition and evolution.

The successful candidate will be appointed at the Department of Biology, Utrecht University and will be co-supervised by Prof. Johan Bolhuis, Dr. Simon Reader, and Prof. Marcus Düwell. Links to additional information and details of the application procedure are available via http://www.bio.uu.nl/-behaviour/Reader/ The application deadline is January 1, 2011.

Simon Reader Utrecht University, Behavioural Biology, Padualaan 8, PO Box 80086, 3508 TB Utrecht, The Netherlands. http://www.bio.uu.nl/behaviour/-Reader/ Simon Reader <s.m.reader@gmail.com>

UUtah EvolutionaryBiology

University of Utah ' Ecology Evolution and Organismal Biology Graduate Positions

The University of Utah seeks motivated students for our graduate program in Ecology, Evolution and Organismal Biology (EEOB). Our program focuses on the dynamics of how organisms interact with their environment and encompasses physiology, functional morphology, behavior, evolutionary genomics, species-interactions, conservation, ecosystem processes, aridland biology, tropical and montane ecology. An in-depth understanding of these topics is critical given the changing nature of our planet. We have a vibrant group of faculty, post doctoral fellows, graduate students and undergraduates conducting research both locally and internationally. We encourage interested students to directly contact potential research advisors.

All students in the program are guaranteed teaching or research assistantships that provide a competitive stipend, health benefits and a waiver of tuition and fees.

More information about the EEOB program and application forms can be found at http://-www.biology.utah.edu/.

bush@biology.utah.edu

UUtah EvolutionaryGenetics EvoDevo

GRADUATE STUDENT POSITIONS: EVOLUTIONARY GENETICS AND DEVELOPMENT AT THE UNIVERSITY OF UTAH

Graduate student (Ph.D.) positions are available in the laboratory of Mike Shapiro in the Department of Biology, University of Utah. We seek highly motivated colleagues to study the genetic and developmental basis of morphological and behavioral evolution in vertebrates. Our current research focuses on molecular genetics, population genetics, and development of stickleback fish and domesticated pigeons. Applications from students with experience or interest in analyses of genomic data are especially encouraged. Specific projects will be tailored to the strengths and interests of successful candidates.

Candidates should apply for admission through the Department of Biology's graduate programs in Molecular, Cellular & Evolutionary Biology (MCEB) or Ecology, Evolution & Organismal Biology (EEOB). Graduate students are funded for at least 5 years though a combination of research assistantships, fellowships, and teaching assistantships, contingent upon satisfactory progress. The genetics and developmental biology communities are extensive and strong at the University of Utah and offer numerous opportunities for collaboration. Campus-wide NIH training grants support graduate students in both disciplines.

Inquiries from potential applicants are encouraged: shapiro@biology.utah.edu

Shapiro lab website: http://www.biology.utah.edu/-shapiro

Admission requirements and applications are available from: MCEB program: http://www.biology.utah.edu/-graduate/mceb/ EEOB program: http://-www.biology.utah.edu/graduate/eeob/

The application deadline for both programs is January 7, 2011, for Fall 2011 admission.

shapiro@biology.utah.edu

UUtah HostParasiteEvolution

Graduate Research: Evolutionary Ecology of Host-Parasite Interactions, Clayton-Bush Lab, Dept. of Biology, Univ. of Utah

We are seeking one or two highly motivated Ph.D. students interested in the evolutionary ecology of host-parasite systems. Projects in our lab focus on factors governing parasite specificity, speciation, co-speciation, competition, adaptive radiation, and reciprocal selective effects between parasites and hosts. We also do taxonomic and phylogenetic work on birds and their host-specific feather lice. Additional information about our lab can be found at: darwin.biology.utah.edu.

Positions are available for Fall Semester, 2011. Students in our lab are supported by a combination of fellowships, research assistantships, and teaching assistantships. Support is guaranteed for five years, contingent upon performance.

Please visit www.biology.utah.edu for departmental information. Admission requirements and applications are available at www.biology.utah.edu/graduate/eeob. The application deadline for Fall Semester is January 7th, 2011.

Inquiries are welcome via email to: Dr. Sarah E. Bush (bush@biology.utah.edu) Dr. Dale H. Clayton (clayton@biology.utah.edu).

bush@biology.utah.edu

UWisconsin-Milwaukee WildlifePopulations

Graduate position (MS) in Wildlife Genetics and Population Modeling of Bison in the lab of Dr. Emily Latch, Department of Biological Sciences, University of Wisconsin-Milwaukee.

I am seeking a highly motivated and enthusiastic MS student to work on a federally-funded project evaluating alternative culling strategies for bison herds, beginning fall 2011. The goal of this project is to develop an individual-based population model to evaluate culling strategies to determine which strategy best preserves genetic variation over the long term. Qualified candidates should be broadly interested in the evolution, conservation, and management of vertebrate populations, and should have experience and interest in combining computer modeling, population genetics, and wildlife ecology. Funding in the form of assistantships, research support, and travel grants are available for qualified candidates.

Research in my lab employs molecular genetic tools and statistical genetic methods to address fundamental questions in vertebrate population genetics and evolutionary ecology. Many projects have an applied focus, helping to inform conservation and management programs. For more information about the Latch Lab, visit: http://people.uwm.edu/latch .

To learn more about graduate studies in the Department of Biological Sciences at UWM, visit: http://www.uwm.edu/Dept/Biology/Docs/Grad/-gradindex.html If you are interested, please send me an email including 1) a statement of research interests, 2) a brief overview of your previous academic and research experiences, and 3) how your interests might fit with the lab. Also please include a CV (with GPA and GRE scores). Qualified candidates will also have to apply to the UWM Graduate School (deadline Jan 1, 2011). The review of applications will begin immediately and will remain open until the position is filled. Anticipated start date is August 2011.

Emily K. Latch Assistant Professor Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

Tel: 414-229-4245

latch@uwm.edu

UZurich AngiospermRadiations

Switzerland Zurich: Ph.D. Positions in Angiosperm Radiations The goal of the interdisciplinary project “Cenozoic Radiations” is to test the hypothesis that the modern Angiosperm diversity has been assembled through a series of adaptive radiations during the Cenozoic, resulting from the interaction between evolving plant functional traits and environmental change. The project will link recent advances in building and analysing huge phylogenetic trees, with an increased understanding of plant functional traits, and substan-

tial progress in documenting Cenozoic Angiosperm fossils. The project is based at the Institute of Systematic Botany of the University of Zurich (http://www.systbot.uzh.ch/index_en.html), with close collaborations with researchers in Switzerland (Colin Hughes), Germany (Volker Mosbrugger, Dieter Uhl), the US (Peter Wilf, Kevin Nixon, Maria Gandolfo), Mexico (Susana Magallon), Australia (Greg Jordan) and South Africa (William Bond). Funding comes from the Swiss National Fund for Science (SNF).

We have a position for a PhD student open in this project. This student will search for plant functional traits that may be linked to changes in the diversification rate. The successful applicant will have a good general knowledge of plants, and in particular of plant structure, and an understanding of eco-physiology and phylogeny. Correlations between global and local environmental changes and shifts in the diversification rates may be used to evaluate the importance of the PFT's in the diversification of particular clades.

For further information, contact Peter Linder (Peter.linder@systbot.uzh.ch). You are urged to apply as soon as possible: the position is available immediately, and will be filled as soon as a suitable applicant is located.

To apply, send the following materials, as separate PDF files, to Peter Linder (Peter.linder@systbot.uzh.ch):

1. PDF of cover letter, indicating – your career goals – why you are interested in this PhD 2. PDF of CV, giving contact information, title of Masters thesis, a summary of our university courses and interests, research experience, notable skills, advanced courses, publication list, posters and talks presented, awards, service, etc. If your Masters is not yet completed, please indicate by when you expect to graduate. 3. PDF of the abstract of your Masters thesis. If your Masters is not yet completed, please provide a summary. 4. PDF of university report of coursework, showing grades and degrees earned (must be in English) 5. PDF's of published papers and papers in-press.

Peter Linder Institute for Systematic Botany Zollikerstrasse 107 CH 8008 Zürich Switzerland Ph: +41 (0)44 634 8410 Fax: +41 (0)44 634 8403

Peter Linder <peter.linder@systbot.uzh.ch>

Vienna DrosophilaSpeciation

PHD POSITION IN VIENNA ON SYMBIOSIS RESEARCH, BEHAVIORAL GENETICS AND SPECIATION OF DROSOPHILA

A PhD position in Symbiosis Research, Behavioral Genetics and Speciation of Drosophila is available in the group of Wolfgang J. Miller at the Medical University of Vienna (Department of Cell and Developmental Biology, Lab Genome Dynamics), Vienna, Austria. The PhD position is funded for at least two years, and an extension of the contract is very likely.

This research project is funded by the Austrian Science Fund (FWF) and will focus on the identification of the molecular basis of Wolbachia-mediated changes on sexual behavior and symbiont-triggered speciation in Neotropical fruit flies, belonging to the species cluster of Drosophila paulistorum, a powerful genetic model system since the 1950s; for details see Miller et al. 2010 PLoS Pathog 6(12): e1001214. doi:10.1371/journal.ppat.1001214).

We are seeking a talented, independent, hard-working and self-motivated young biologist with good social skills. The successful candidate will have a strong background in genetics, molecular and behavioral biology using the Drosophila system. Some background in the biology of symbiosis, evolutionary biology, genomics, and/or microbiology would be ideal, but is not required. The working language in the laboratory is English, so the candidate should be proficient in spoken and written English. German skills, although helpful, are not essential. The initial appointment will be made for one year, with a possible extension to up to three years. The position is available from June 2011.

To apply, please send a single pdf file including: (1) a cover letter explaining why you would like to join our group, (2) your Curriculum Vitae (including a description of your skills), (3) your publication list, (4) a statement of research interests, and (5) contact details for 2-3 references who are willing to write a reference letter on your behalf to the following e-mail address: wolfgang.miller@meduniwien.ac.at

Wolfgang J. Miller PhD. Laboratories of Genome Dynamics Center of Anatomy and Cell Biology Medical University of Vienna Währingerstr. 10 A-1090 Vienna Austria

email: wolfgang.miller@meduniwien.ac.at Tel. 0043 1 4277 60625 Fax 0043 1 4277 60690

Wolfgang Miller <wolfgang.miller@meduniwien.ac.at>

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 that builds on this outstanding 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:

- New algorithm and models to analyze population genetic massive parallel sequence data - The footprint of adaptive gene introgression after secondary contact - Probabilistic models for the population genetics of molecular evolution - The genetics of two closely related species of Aquilegia - Evolution of gene expression in Drosophila - Association mapping in outbred Drosophila populations - Measuring interspecific gene flow by massively parallel sequencing - Genetic basis of local adaptation - Admixture mapping with Bayesian probabilistic models for genome wide population genetic data - Mathematical models of spatially varying selection in subdivided populations - Functionally significant genetic variation in lifespan in natural populations - Statistical methods for detecting selective sweeps using genome-wide data - Population genetic estimators from NGS data

Applications need to be received by 13.02.2011 and include CV, motivation letter, university certificates and an indication of the two preferred topics in a single pdf. 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 Coordinator Vienna Graduate School of Population Genetics University of Veterinary Medicine Veterinärplatz 1 A-1210 Vienna www.popgen-vienna.at Tel: +43 1 25077 4338 Fax: +43 1 25077 4390

julia.hosp@gmail.com

WakeForestU ExperimentalEvolutionaryGenomics

Graduate position: Wake.Forest.U.ExperimentalEvolutionaryGenomic

A PhD position is available in the lab of Clifford Zeyl in the Department of Biology at Wake Forest University to study the genomes of evolving yeast populations under selection for invasive growth, a trait associated with virulence in clinical strains and species of yeast.The study will bring together experimental evolution, in which microbial adaptation is directly observed under known, reproducible conditions, and the speed with which yeast genomes can now be sequenced and analyzed.Short and long-term selection will be applied to genetically divergent ancestral populations for which the sequence polymorphisms that influence invasive growth have been identified.Genomic analysis of evolved populations will then reveal how well the evolutionary outcomes could be predicted from knowledge of the ancestral genomes, and how contingent longer-term adaptation is on their initial evolutionary steps.

The project is a collaboration with Dr. Paul Magwene at Duke University, a 90-minute drive east of Wake Forest University, whose lab will perform the genome sequencing and sequence analysis.It is funded through summer 2013 by an NSF grant, with additional support through teaching assistantships guaranteed by the department.

Applicants must have a bachelor's degree in biology (masters preferred), with some background in evolutionary or population genetics.A keen interest in the broad questions and hypotheses of evolutionary biology, and in testing them experimentally, are essential.Lab bench skills in basic molecular biology and microbiology would be an asset but are not required.

If interested please e-mail me at zeylcw@wfu.edu Applications should be submitted online at

http://graduate.wfu.edu/admissions/onlineapp.html by January 15ˆth .

Clifford Zeyl Associate Professor, Department of Biology, Wake Forest University phone: 336 758-4292

clifford.w.zeyl@gmail.com

WayneStateU EvoDevo

The Division of Evolutionary and Organismal Biology of the Department of Biological Sciences of Wayne State University invites students with a strong interest in molecular evolution and evolutionary developmental biology to submit applications for admission to the Ph.D. and MS programs (http://www.clas.wayne.edu/-unit-inner.asp?WebPageIDP6). The Department fosters a vibrant academic community, committed to prepare graduate students for independent research careers. Our rigorous programs are enhanced by a variety of support mechanisms including:

- Graduate student teaching assistantships - Competitive graduate student research assistantships - Competitive graduate student research mini-grants - Travel support stipends

The following groups with external funding from NIH, NSF and EPA offer research opportunities in the area of evolutionary development:

Dr. Markus Friedrich: - The role of gene duplication in the developmental evolution of /Drosophila/and the higher Diptera - Functional genomic analysis of eye development in the red flour beetle Tribolium castaneum - Developmental basis of cave adaptation in the small carrion beetle Ptomaphagus hirtus

Dr. Edward Golenberg: - Evolution of dioecy in sultivated spinach /Spinacia oleracea/ - Hormonal role in developmental/environmental plasticity - Development of unisexual cultivars

Dr. Aleksandar Popadic: - Role of hox genes in evolution of arthropod body plans - Molecular basis of morphological evolution in insect wings and legs - Development of transgenic approaches in emerging model insect species

These research programs are complemented by extensive molecular, cellular and developmental expertise in the department (Ansari, Branford, Beningo, Cunningham, Greenberg, Kang, Meller, Pile, VanBerkum, Zhang: http://www.clas.wayne.edu/unit-inner.asp?WebPageID130).

Application procedure: All supporting documents must be received in the office by March 1 for foreign applicants and April 1 for domestic applicants. Early applications are reviewed beginning in January.Offers of admission are made on a rolling decision basis.It is therefore recommended to apply early in the year. For details regarding application requirements and materials consult our departmental website:

http://www.clas.wayne.edu/unit-inner.asp?WebPageID!88 Direct further specific questions to Ms. Rose Mary Priest: ag1115@wayne.edu

– Markus Friedrich Associate Professor Department of Biological Sciences Wayne State University 5047 Gullen Mall Detroit, MI 48202

office: 313 577 9612 lab: 313 577 5120 fax: 313 577-6891 http://friedrichlab.googlepages.com/home Markus Friedrich <friedrichwsu@gmail.com>

Jobs

BrownU Bioinformatics

The Brown Center for Genomics and Proteomics and the Division of Biology and Medicine at Brown University announces the opening of a tenure-track faculty position in Bioinformatics at the level of Assistant or Associate Professor effective July 1, 2011. The mission of the Center for Genomics and Proteomics is to serve as a focal point of intellectual activity in the rapidly advancing area of systems biology building upon technological advances in instrumentation and methodology. This function is catalyzed by a core group of faculty whose research interests are based on the pursuit and implementation of genome-wide approaches to biological inquiry. The Center is not focused on a specific disease or organ system, but rather aims to apply interdisciplinary systems biology approaches to a wide variety of fundamental biological processes. The Center is well equipped to support genomics (Illumina GAIIX and HiSeq2000) and proteomics (Thermo Orbitrap VELOS ETD) research and benefits from recent university investments to build a high-performance computing resource (Center for Computation and Visualization).

Qualifications include a Ph.D. or equivalent degree in bioinformatics, computational biology or a related area, with relevant postdoctoral research training and a record of excellence in research. The successful applicant will combine outstanding quantitative skills with a deep knowledge of biology and will demonstrate, through publications and funding, a track record of collaboration with biologists and statisticians. Special attention will be given to candidates with demonstrated experience with high-throughput data analysis and the application of bioinformatics and modeling to fields of current interest in molecular biology, cell biology, genomics, epigenomics, proteomics, and translational biomedical research. First-hand knowledge of experimental techniques in these fields is vital. The applicant also should demonstrate a serious commitment to graduate and undergraduate education.

Applicants should submit their application electronically to: bioinformatics_search@brown.edu . Any postal or courier communications should be addressed to:

Chair, Bioinformatics Search Committee Brown University Division of Biology and Medicine Box G-A124 Providence, Rhode Island 02912

Applicants should provide the following: a curriculum vitae and a statement describing their relevant experience and their research and teaching plans. Applicants should arrange for at least three (3) external letters of recommendation to be sent by e-mail or by postal service to the address above. Review of applications will begin immediately and will continue until the position is filled. Applications received prior to January 1, 2011 will receive full consideration.

Brown University is an EEO/AA employer and invites applications from women, minorities, and protected persons.

David M. Rand Professor of Biology Department of Ecology and Evolutionary Biology Box G-W, 80 Waterman Street Brown University Providence, RI 02912 Voice: (401) 863-2890 (Office - Walter Hall 202) (401) 863-1063 (Lab - BioMed Center 516-518) Fax: (401) 863-2166 email: David_Rand@brown.edu web pages: http://-www.brown.edu/Departments/EEB/rand/index.htm http://research.brown.edu/research/profile.php?id=-1100924991&r=1 David_Rand@brown.edu

CaliforniaStatePolytechU ConservationBiology

Possible successful candidates could include population geneticists, so it may be of interest to some members.

CONSERVATION BIOLOGIST /RESTORATION ECOLOGIST

The Biological Sciences Department at California State Polytechnic University (Cal Poly Pomona), invites applications for a tenure-track, ASSISTANT PROFESSOR position in Conservation Biology or Restoration Ecology, beginning September 2011. This position is intended to integrate with and contribute to our growing Environmental Biology Program. A Ph.D. in Biology or a related field, a demonstrated record of publication, and some teaching experience at the college level are required. Post-doctoral experience is preferred. The area of expertise is open, but candidates with a strong field-based research program in conservation/restoration biology are particularly encouraged to apply. The successful candidate will be expected to teach courses in general ecology, conservation biology, and other upper division and/or graduate level courses related to his or her area of expertise. Teaching duties may also include introductory biology or a general education course. The successful candidate must be strongly committed to teaching, mentoring of undergraduate and graduate (MS) students, and developing an externally funded research program. Cal Poly Pomona is a comprehensive Master[1]s level university with a diverse student body. The successful candidate will have demonstrated ability to be responsive to the educational equity goals of the university and its increasing ethnic diversity and international character. Applicants should mail: (1) curriculum vitae, (2) statement of teaching philosophy, (3) proposed plan of research, (4) reprints of up to three publications, and (5) the names and contact information of five references references to: Chair, Conservation Biologist/Restoration Ecologist Search Committee, Biological Sciences Department, California State Polytechnic University, 3801 West Temple Avenue, Pomona, CA 91768-4132. Review of applications will begin on January 5, 2011. Official transcripts and three letters of reference will be required of all finalists. For full position description, please visit the Department web site at: http://www.csupomona.edu/ ˜ biology . California State Polytechnic University, Pomona is an Equal Opportunity, Affirmative Action Employer.

Ángel Valdés Department of Biological Sciences California State Polytechnic University 3801 West Temple Avenue Pomona, California 91768-4032 Office phone: (909) 869-4064 Lab phone: (909) 869-3005

"Dr. Ángel A. Valdés" <aavaldes@csupomona.edu>

CNRS France EvolutionaryBiology

Dear all

[please distribute as appropriate; sorry for cross-posting]

This is to inform you about an attractive job offer in France - the yearly announcement of researcher positions financed by the French Funding Organization "Centre National de la Recherche Scientifique" (CNRS). These are *life-time 100 % research* positions offered in an international competition to excellent candidates. The web page is http://www.dgdr.cnrs.fr/-drhchercheurs/concoursch/default-en.htm.

DEADLINE for the full application is January, 6. Potential host labs should be contacted very soon (see below). Knowing FRENCH is not required for applying.

THE PROFILES: Posts of interest for ecologists and evolutionary biologists are available, mainly in sections 20 and 29 and to some degree 43 and 45. In some cases, profiles are quite specific (such as "Amazonian biodiversity", "Evolution of Symbioses"). But very strong candidates that have little to do with a specific profile may in cases be preferred over weak candidates that perfectly match that profile. Moreover, most profiles are not specific and just suggest the candidate should match the themes of the corresponding section. Themes of section 20 are given on http://www.cnrs.fr/-comitenational/sections/section20.htm (in French, including Biodiversity and ecosystem functioning / Landscape ecology and ecology of species communities / Ecotoxicology and molecular ecology/ Impacts of global change on ecosystems and hydrosystems, paleoceology and continental paleoenvironments, as well as a number of non-ecological geosciences issues). Themes of section 29 are given on http://www.cnrs.fr/comitenational/-sections/section29.htm (in French, but including everything on biodiversity, evolutionary biology, molecular biology and ecology, from ecophysiology, behavior, life histories via populations, host-parasites, to community

assembly). Themes of section 43 are given on http://-www.cnrs.fr/comitenational/cid/cid43.htm (in French, but including modeling of dynamics of biological systems at all levels and population dynamics; see also the post N43/03 a bioinformaticien post already reserved for ECOBIO lab at Rennes). Themes of section 45 are given on http://www.cnrs.fr/comitenational/cid/-cid45.htm (in French, but including interaction between man and global change and biota).

Multiple candidatures are possible.

THE TYPES OF POSTS (see also http://-www.dgdr.cnrs.fr/drhchercheurs/concoursch/-chercheur/default-en.htm, including salaries): There are "chargés de recherche", 2nd and 1st degree, 2nd and 1st degree "directeurs de recherché", i.e. Associate Scientists after dissertation and after some years of postdoctoral experience, and Senior Scientists after about 8 or more years years of experience, respectively. *However*, please note that the announced posts of "directeurs de recherche" do not seem to exist (except in the case of very exceptional applications). These "posts" are de facto only for promotion of people that already have a position of a chargé de recherche within CNRS. According to my experience already the Chargés de Recherche are actually free to do what they want within an overall, very large disciplinary category (see above). Starting salaries are generally OK for feeding a family of three, even though it may become tight in Paris.

The competition for such positions is becoming increasingly tough, in particular in the section 29. Even though strange things are happening, in section 29 multiple first or senior authored publications per year each with an impact factor of 4 or more seem to be useful, and Nature, Science, PNAS, Ecology Letters are highly appreciated. Further criteria (in French) are given for each section e.g. at http://www.cnrs.fr/-comitenational/sections/critere/section29.htm.

THE RECRUITMENT PROCEDURE. Applications include a full research project. A visit to the lab after having submitted the application seems to be very much expected in all cases. Generally, French institutions may not reimburse candidates the travel costs to visit labs or to come to interviews etc.. We should have some funds here at Rennes. After having applied there is a risk that *all* eligible candidates will be invited to a presentation and an interview in Paris in spring 2011. Travel costs will *not* be reimbursed by the CNRS, but there might be funds at the

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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

ColoradoStateU ProjectManager

Project Manager position

A collaborative team of researchers from Colorado State University, University of Nebraska and Cornell University seek individuals to join us on a recently awarded NSF Dimensions of Biodiversity grant called EvoTRAC (Evolutionary Trait Response with Altitude and Climate).

EvoTRAC aims to predict the vulnerability of stream organisms to climate change across latitudinal and elevation gradients by first understanding how temperature and disturbance shape stream biodiversity and function. Through several integrated research questions, we will build links between multiple levels of evolutionary, organismal and ecological biology using a combination of field surveys, in situ physiologicol tolerance measurements, and community/ecosystem scale mesocosm and whole stream experiments.

To complete this highly integrative project, we are searching for a Project Manager who is enthusiastic about working in remote streams in Colorado and Ecuador, who speaks Spanish, and who is excited about interacting with a team of principle investigators from multiple universities and with international collaborators.

Specifically we seek an individual with the following qualifications and expertise: > MS or PhD in ecology, evolution, or a related discipline. > Demonstrated leadership skills, with experience coordinating a large and diverse field crew. > Excellent communication and interpersonal skills. > Fluency in spoken and written Spanish and English. > Experience managing and integrating diverse types of field, genetic, and experimental data using relational databases. > Strong interest in being involved in data collection, analysis, and manuscript preparation. > Willingness to work in remote streams and field sites in Ecuador and Colorado for prolonged periods (weeks to months). > Excellent problem solving skills and resilience for dealing with unpredictable challenges that arise during fieldwork. > Basic knowledge of vehicle maintenance and mechanics.

To apply for the EvoTRAC Project Manager position, please email your CV and a Letter of Interest that ex-

plains your qualifications for this job directly to Chris Funk (Chris.Funk@colostate.edu) by January 31, 2011. Top candidates will then be asked to submit an official application to the CSU Department of Biology.

See the project webpage at http://-rydberg.biology.colostate.edu/EvoTRAC/ for further information on project details and application procedure.

kelly.zamudio@cornell.edu kelly.zamudio@cornell.edu

ColumbiaC Chicago EvolutionaryBiology

Columbia College Chicago, Tenure-Track Position in Biology (POS 763), Assistant Professor.

About Columbia Columbia College Chicago is an urban institution of over 12,000 undergraduate and graduate students emphasizing arts, media, and communications in a liberal arts setting.

The Department of Science and Mathematics invites applicants for a full-time tenure-track assistant professor position in biology.

Job Summary The responsibilities of this position include teaching biology (9 credit hours each semester) primarily to non-majors. Faculty members are also expected to be active in scholarship and professional development and participate in College and Departmental service. The successful candidate will be a dedicated and innovative teacher who combines excellent communication skills with a strong commitment to undergraduate liberal arts and sciences education.

A Ph.D. in Biology or a closely related field is required for this position. The start date is August 16, 2011.

How To Apply To ensure full consideration, applications should be received by January 16, 2011. No phone calls or walk-ins please. Please upload in ONE document: a letter of application, your c.v., statement of teaching philosophy, and the names of and complete contact information for three references.

Equal Employment Opportunity Columbia College Chicago is committed to diversity in its faculty. This includes, but is not limited to, diversity of race, gender, generation, geography and diversity of training and professional background. Columbia College Chicago encourages female, GLBT, disabled, international, and minority classified individuals to apply for all positions. We offer a competitive salary and an excellent benefits package. For more information, visit our website at: www.colum.edu https://employment.colum.edu/psp/careers/-EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL ?Page=HRS_CE_HM_PRE&Action=A&SiteId=1

please note new phone exchange Elizabeth Davis-Berg, Ph.D. Coordinator for Environmental Studies Minor Assistant Professor of Biology Department of Science and Mathematics Columbia College Chicago 623 S. Wabash Ave. Room 200-J Chicago, IL 60605 312-369-7395 edavisberg@colum.edu

“Davis-Berg, Elizabeth” <edavis@colum.edu>

CornellU BioinformaticsProgrammer

BIOINFORMATICS PROGRAMMER POSITION at Cornell University

A programmer position is now available in the computational genomics research laboratory of Dr. Jason Mezey (http://mezeylab.cb.bscb.cornell.edu/) within the Department of Biological Statistics and Computational Biology at Cornell University. The Mezey group focuses on the development of novel statistical and computational methods for addressing fundamental questions in computational biology and disease genomics. The duties of the position will include implementing and improving the computational speed of algorithms, building analysis pipelines, database construction and management, and software development. The group is dynamic and interactive, and most projects require close teamwork among students, Post-Doctoral Associates, and staff.

The Mezey group has a dual appointment in the Department of Biological Statistics and Computational Biology at Cornell University (Ithaca, NY) and in the Department of Genetic Medicine at Weill Cornell Medical College (New York City), with members at both locations. We are looking for a programmer who would be located at our Ithaca location.

Ideal candidates will have a computer science background, proven programming skills in C/C++ and PERL, experience with relational databases (mysql or similar), basic knowledge of web programming, familiarity with probability and theoretical statistics, and experience working with next-generation sequencing

and genomic data.

Salary will be commensurate with experience. The position is available immediately. To apply, please go to the following link:

https://cornellu.taleo.net/careersection/10164/-jobsearch.ftl<%22> and search for job #13842 (Bioinformatics Programmer, posting date 11.29.10). If you have any additional questions please contact Jason Mezey at jgm45 at cornell dot edu.

jgm45@cornell.edu

Duesseldorf PlantEvolutionaryGenetics

The research group of Population and Quantitative Genetics at Heinrich-Heine Universität in Düsseldorf, Germany has an open position for a

SENIOR POSTDOC/GROUP LEADER

Our group focuses on population genetics of plants and coevolution between plants and microbes. We are looking for an enthusiastic, dedicated scientist who works in one of the following areas:

- Coevolution between plants and microbes

- Theoretical population genetics

- Molecular evolution in plants

- Plant genomics

Candidates with a PhD degree in evolutionary biology, quantitative genetics, plant molecular biology or bioinformatics and a strong interest in genomic and/or quantitative approaches are encouraged to apply. You will have access to state-of-the-art laboratory facilities and the opportunity to develop your own independent line of research. This position involves some teaching in the area of evolutionary biology and population genetics.

The initial appointment is for three years with the possibility of extension for another three years. Salary will be according to the German government salary scale and depends on previous experience, age and marital status. For more information about the group, please check out the lab website: http://evol.bio.lmu.de/-_rose/ The closing date for applications is February 1, 2011, or when the position is filled. Applicants should send a single PDF file containing a statement of interest and previous research and teaching experience, curriculum vitae, and contact information for at least two referees to: Dr. Laura Rose (rose@bio.lmu.de).

Prof. Dr. Laura Rose

current contact information:

Section Evolutionary Biology Phone: 49 89 2180 74 150 University of Munich - LMU Fax: 49 89 2180 74 104 Grosshaderner Str. 2 Email: rose@bio.lmu.de 82152 Planegg Web: http://evol.bio.lmu.de/_rose Beginning in Spring 2011:

Heinrich-Heine-Universität Universitätsstraße 1 40225 Düsseldorf Germany

rose@zi.biologie.uni-muenchen.de

Melbourne 4 ResearchFellowships

La Trobe INSTITUTE FOR MOLECULAR SCIENCE (LIMS) Research Fellowships 2011 Melbourne, Australia

The La Trobe Institute for Molecular Science (LIMS) includes the Universitys departments of Genetics, Biochemistry, Chemistry and Pharmacy and is dedicated to the study of the molecular structures and processes fundamental to life on earth, underpinning environmental, biochemical and biomedical issues.

The LIMS project, a $96 million investment, will provide the Institute with a new 6-storey, state-of-the-art research and teaching building, fully integrated with existing, recently refurbished molecular biology laboratories. Once completed, LIMS will offer 35 modern research laboratories, associated support facilities and offices for staff and students. Current support facilities include proteomic/mass spectrometry, NMR, advanced microscopy, and an animal house, as well as access to foundation investor time at the Australian synchrotron. LIMS provides researchers with a collegial working environment with the opportunity to attract and train Honours, Masters, and PhD students.

Expressions of Interest are sought from outstanding, internationally competitive researchers for appointments as LIMS Research Fellows. Up to 4 such positions may be offered, at Level B/C. Researchers who currently hold fellowships are also encouraged to apply. Generous support packages are available.

Applicants must have a PhD, an excellent publication record relative to opportunity and have, or be able to

attract, external research funding. Current continuing staff members of the La Trobe University are ineligible for LIMS fellowships.

Further information may also be obtained by contacting Prof. Nick Hoogenraad N.Hoogenraad@latrobe.edu.au. Application forms and guidelines may be obtained from the website http://www.latrobe.edu.au/lims/ . Jan Strugnell <J.Strugnell@latrobe.edu.au>

OregonStateU PlantGenomics

Assistant Professor

Plant Genomic/Computational Biology

Oregon State University

The Department of Botany and Plant Pathology (http://www.science.oregonstate.edu/bpp/) seeks applicants for a 9-month, full-time (1.0 FTE), tenure-track faculty position in Genomic / Computational Plant Biology.

The successful candidate will be expected to establish a vigorous and innovative research program addressing fundamental questions in plant population, community, ecosystem, or evolutionary ecology using genomic and/or computational approaches. Topics of potential research include, but are not limited to basic research with applications in natural resource management (e.g. global change, ecosystem function and services, biodiversity, restoration ecology, conservation biology, invasive species).

The candidate will also contribute to undergraduate and graduate education in Plant Ecology and area of expertise; mentor and serve as research advisor to graduate students in their advanced degree programs in Botany and Plant Pathology, Molecular and Cell Biology, or related programs; and act as advisor and research mentor to undergraduate students.

To review the position description and apply, go to posting # 0006607 at http://oregonstate.edu/jobs. OSU is an AA/EOE. For full consideration, apply by January 18, 2011 when review of applications will begin.

Aaron Liston

Department of Botany & Plant Pathology

Oregon State University

Corvallis, Oregon 97331-2902 USA

aaron.liston@oregonstate.edu

Aaron Liston <listona@science.oregonstate.edu>

PacificGrove CA ResTech MarineInvertPopulations

Research Technician, one year fixed term, 100% fte, benefits eligible position, at Stanford University's Hopkins Marine Station, in Pacific Grove, CA.

Under the direction of the Principal Investigator the technician will assist with research related to genetic characterization of populations of reef corals, algae and other invertebrates in the context of ongoing research into marine conservation and management.

Duties include: . Collecting larvae and adult specimens of marine species. This may involve some travel along the U.S. west coast or other destinations. . Extracting DNA and documenting genetic variation. This will include processing samples in the lab for DNA extraction and sequencing as well as entering, managing, and analyzing the resulting data. This will require the use (or development) of many research skills using a variety of molecular genetic tools. These include, but are not limited to DNA extraction, PCR, gel electrophoresis, and DNA sequencing. . Animal care including aquarium maintenance and routine care and feeding of marine species (primarily invertebrates). . Laboratory maintenance including maintaining the lab and taking responsibility for ordering some of the general supplies.

There is potential for extension of the technician position to other research projects as well as the possibility of co-authorship of at least one resulting publication.

QUALIFICATIONS: The successful applicant will be highly organized, have attention to detail, be able to work as an independent part of a team, have a basic understanding of and facility with standard computer software programs, and have practical experience with a variety of standard molecular tools (for example, DNA extraction, PCR, gel electrophoresis, DNA sequencing, etc). Familiarity with high-throughput sequencing is preferred. In addition to these basic requirements, we desire an applicant with an interest in marine ecosystems and their ecological functioning.

Please apply through the Stanford Jobs website. The direct link to this posting is: http://jobs.stanford.edu/-find_a_job.html?action=viewDetails&accountId=-

de85ad313f8598db1c42b567a3df24a00497ba22&jobId=40789 < http://jobs.stanford.edu/-find_a_job.html?action=viewDetails&accountId=-de85ad313f8598db1c42b567a3df24a00497ba22&jobId=40789 >

* Location: Pacific Grove * Compensation: DOE * This is at a non-profit organization.

Stephen Palumbi <spalumbi@stanford.edu>

SanDiegoStateU Genomics

Assistant/Associate Professor in Genetics/Genomics

Department of Biology, San Diego State University

As seen in the 03 December 2010 issue of Science

We seek an innovative, productive scientist who is addressing fundamental questions in genetics and/or genomics. We are especially interested in candidates who creatively bridge traditional boundaries between evolution and cell and molecular biology using state-of-the-art experimental approaches.

Areas of interest include, but are not limited to: functional or comparative genomics, functional or evolutionary genetics, genetic variation and natural selection in natural and model systems, evolution of complex systems and pathways, experimental evolution, evolution of development, protein structural evolution and quantitative genetics. Research area is open to any organism with studies either above or within the species level. Preference will be given to those candidates that clearly demonstrate research programs that are cross-disciplinary.

The position is open at the Assistant or Associate Professor level. Candidates at all levels should have a strong record of research accomplishments and funding, an active research program, current extramural (NSF, NIH, DOE or comparable) funding, and a commitment to undergraduate and graduate research and teaching. It is expected that candidates at the Assistant Professor level will have post-doctoral experience. Teaching responsibilities will include participation in our upper division undergraduate course Biology 352 (Genetics and Evolution), and additional undergraduate and graduate courses in the candidate's areas of expertise.

The successful candidate is expected to interact with a diverse student body and an active group of biology faculty who have research programs in phylogenetic inference and biodiversity, population genetics, molecular evolution, genomics, bioinformatics, metagenomics, cell biology, physiology, development, evolutionary developmental biology, microbiology, cardiovascular biology, marine ecology, conservation biology and ecosystem studies/global change.

The Biology Department has MS and PhD programs in Evolutionary Biology, Cell and Molecular Biology, and Ecology. The successful candidate is expected to participate in multiple graduate programs that match their research interests.

Send curriculum vitae, statement of research and teaching interests, representative publications, and have three letters of reference sent to: Genetics/Genomics Search Committee, Department of Biology, SDSU, San Diego, CA 92182-4614. Review of applications will begin on 15 January and will continue until the position is filled. SDSU is an equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age, disability, pregnancy, medical condition, or covered veteran status.

Andrew J. Bohonak Associate Professor and Vice Chair of Biology Director of Undergraduate Advising and Curriculum

San Diego State University Department of Biology, MC 4614 5500 Campanile Drive San Diego, CA 92182-4614

Phone: 619-594-0414 Fax: 619-594-5676 Email: bohonak@sciences.sdsu.edu Web: http://-www.bio.sdsu.edu/pub/andy/index.html Office: 212 Life Science North

"Andrew J. Bohonak" <bohonak@sciences.sdsu.edu>

Senckenberg MNH ResAssist

Research Assistant/Technician: Senckenberg Museum of Natural History Goerlitz

A research assistant position is available at the Senckenberg Museum of Natural History Goerlitz/Germany (www.senckenberg.de). The research institutes of Senckenberg look after and enlarge contemporary outstanding international collections of recent and fossil plants and animals from all over the world. Senckenberg research focusses on the biodiversity of the present and the past. This is a full-time position for the first

year (TV-L E6) and we can offer a permanent half-time position after the first year.

Responsibilities include:

Molecular biology laboratory procedures Characterization of plant samples with genetic markers Assistance with curation of botanical collections (techn. assistance, data entries in Sesam, Secify)

Qualifications:

Laboratory research experience in molecular genetics (DNA extraction, PCR, cloning, DNA Fingerprinting) A strong work ethic, the ability to work independently and Enthusiasm for plants and fungi Drivers Licence

Please apply until 7th January 2011 to

Prof. Dr. Michael Türkay c/o. Prof. Dr. Willi Xylander Senckenberg Museum of Natural History Goerlitz PF 30 01 54 02806 Görlitz

For further information please contact: PD Dr. Karsten Wesche Tel 03581-4760 5300, karsten.wesche@senckenberg.de

Dr. Christiane Ritz Senckenberg Museum of Natural History Görlitz PF 300 154 02806 Görlitz / Germany +49 3581 4760 5330 www.senckenberg.de Christiane Ritz <Christiane.Ritz@senckenberg.de>

Sevilla Spain 8 Adaptation

Opportunities for research positions at Doñana Biological Station, Spain (EBD-CSIC).

A recent Grant Agreement between Doñana Biological Station (EBD-CSIC, Sevilla, Spain)(http://-www.ebd.csic.es/WebSite1/Principal.aspx) and the EU (Capacities Programme) includes the contracting of 8 researchers in three different areas.

EBD-CSIC invites applications for eight research positions which will become available under the 7th Framework Programme- European Project ECOGENES "Adapting to Global Change in the Mediterranean hotspot: from genes to ecosystems". The jobs are in the framework of Genomics (2 positions), Ecological Modelling (3 positions, 1 with a more general profile for bioinformatics) and Ecophysiology (3 positions, two of them for avian physiology and one for stable isotope analysis). The characteristics of the offered positions, the scientists responsible of each area, and the candidate's profiles can be consulted in: http://www.ebd.csic.es/WebSite1/Investigacion/-Doc/InformationEcoGenesvacanies.pdf .Duration of the positions is 30 months/person, starting tentatively in April or May 2011. Successful candidates will be fully participating members of the relevant Department at Doñana Biological Station; they will be expected to participate in running projects, fundraising as well as dissemination and support in their respective areas of expertise.

Interested candidates can send, before January 24th 2011, to the project coordinator, Juan Jose Negro: coordinacion@ebd.csic.es, in advance of the official application process: a cover letter, a curriculum vitae, and a short (1-3 pages) description of past research accomplishments and future research plans.

I'm looking forward to hearing from you. Yours sincerely, Begona Arrizabalaga

Begona Arrizabalaga ICTS-RBD Estación Biológica de Donana (CSIC). Americo Vespucio s/n. Isla de la Cartuja. E-41092 Sevilla. España. Tlno. +34 95 4466707/00 Fax +34 95 4621125 e-mail: bego@ebd.csic.es

Begona Arrizabalaga <bego@ebd.csic.es>

Sevilla Spain 8 Adaptation correction

Opportunities for research positions at Donana Biological Station, Spain (EBD-CSIC).

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Thanks, Begona

Begona Arrizabalaga ICTS-RBD Estación Biológica de Donana (CSIC). Americo Vespucio s/n. Isla de la Cartuja. E-41092 Sevilla. España. Tlno. +34 95 4466707/00 Fax +34 95 4621125 e-mail: bego@ebd.csic.es

Begoña Arrizabalaga <bego@ebd.csic.es>

SLU Uppsala TheoreticalPopulationBiology

The department of ecology at the Swedish University of Agricultural Sciences (SLU), Uppsala seek a researcher with a background in theoretical population ecology .

Subject area: Theoretical population ecology including population dynamics, population genetics and evolutionary ecology. Specific areas of interest are population dynamics and regulation, extinction dynamics, life history evolution, and control and management of populations. Research should use models to integrate theory with field data to produce new insights from both a basic and an applied aspect. A more detailed description of potential research areas is found at the department homepage: http://www.slu.se/sv/fakulteter/nl/-om-fakulteten/institutioner/institutionen-for-ekologi/ Duties: Develop own research projects within the subject area and conduct research in close collaboration with researchers at the department (at Uppsala and Grimsö). Preparing proposals for financial support, supervising students, and participating in activities within the department are important components of the job, by some teaching.

Qualifications: Applicants should hold a PhD degree in subject area or a foreign degree deemed to be equivalent to a doctorate. Applicants should also have been appointed Associate Professor or have equivalent qualifications (i.e. a few years of postdoc research) with experience within theoretical ecology. Solid background in ecological theory and insights of the dynamics of wild populations.

Assessment criteria: In the appointment of research, special weight shall be accorded to academic skills.

Required documents to be submitted: The application should be written in English. The following documents should be included with each application: CV including a publication list, PhD diploma, diplomas and other documents that the applicant wishes to refer to, copies of no more than five publications, a description of previous research and other activities of relevance for the position (maximum two pages), and a description of current research interests and planned research that the applicant intends to carry out within this position (maximum two pages). Names and addresses of at least two persons able to provide references for the candidate should also be provided. The application and all enclosed documents should be submitted in triplicate.

Form of employment: Permanent SLU uses probitionary employment. Extent: 100%

Your application marked with ref no 3687/2010. Please submit your application to the Registrar of SLU, P.O. Box 7070, S-750 07 Uppsala, Sweden or registrator@slu.se , NO LATER THAN JANUARY 10, 2011.

Further information: Tomas Pärt Professor +46 (0)18-67 27 04

tomas.part@ekol.slu.se

Smithsonian SystematicEntomologist

SYSTEMATIC ENTOMOLOGIST - The Smithsonian[1]s National Museum of Natural History seeks a systematist to conduct an integrative, collections-based research program focused on terrestrial arthropods or aquatic insects. The successful candidate is expected to develop an internationally recognized research program utilizing modern methods, which may include bioinformatics, in pursuing systematic research on Coleoptera, Diptera, Heteroptera, or another terrestrial arthropod or aquatic insect group,

with relevance to phylogenetics, genetics, evolution, morphology, behavior, biogeography, biodiversity, ecology, or related fields. Frequent publication of highly regarded papers in competitive, peer-reviewed journals is expected, as is curation of collections in specialty area, service to the scientific community in leadership capacities, acquisition of external funding, engagement in outreach activities, and mentorship of students.

The position will be filled at the GS-12 level (salary range is $74,872-$79,864 per year commensurate with experience). For application procedures see: www.sihr.si.edu < http://www.sihr.si.edu > or www.usajobs.opm.gov < http://www.usajobs.opm.gov > and refer to Announcement 11A-JW-296508-DEU-NMNH for a Research Entomologist, or contact Jan Williams, 202-633-6363, willija@si.edu. Applications must be received by February 15, 2011. Applicants will be notified by e-mail when their application is received. U.S citizenship is required. The Smithsonian Institution is an Equal Opportunity Employer.

Seán Brady Research Entomologist Curator of Hymenoptera National Museum of Natural History Smithsonian Institution email: bradys@si.edu phone: 202-633-0997 website: http://-/entomology.si.edu/StaffPages/BradyS.htm "Brady, Sean" <BRADYS@si.edu>

SmithsonianTropResInst Archaeology

RESEARCH POSITIONS IN ARCHAEOLOGY AND MARINE SCIENCE

The Smithsonian Tropical Research Institute (STRI; www.stri.org), headquartered in the Republic of Panama, invites applicants interested in conducting research in the new world tropics to fill one permanent research position in Archaeology and one in Marine Science. Candidates should have a strong publication record and demonstrated success in obtaining grants. The successful candidates are expected to develop strong research programs, supervise students, collaborate with other staff, and provide service to the Institute.

STRI maintains modern research facilities, a library with extensive holdings in the natural and anthropological sciences, and support centers in Panama City, together with diverse stations for marine and terrestrial field work throughout the tropics. Staff scientists maintain cooperative research programs within a worldwide network of academic institutions. Opportunities for mentoring young scientists are available through a vigorous fellowship program, and formal teaching is possible through educational programs with affiliated universities.

Archaeology: We seek an archaeologist interested in doing research on prehistoric adaptations of native peoples to tropical forests; anthropogenic transformations of the landscape; plant domestication; archaeozoology; innovations in subsistence technologies; and the development of social, cultural and economic systems. Mid-level candidates are preferred but applicants at any level will be considered.

Marine Science: We seek a broadly-trained marine scientist who addresses fundamental research questions and whose interests complement those of the existing staff. Applicants at any level will be considered.

Minimum Qualifications: A Ph.D. in a relevant field, a demonstrated record of research excellence, and a commitment to communicating science to the public.

To Apply: Interested candidates should submit a single pdf containing a summary of research accomplishments and interests, curriculum vitae, five significant reprints, and the names and contact information of three referees. Please send applications electronically to strimarinejob@si.edu or strianthrojob@si.edu. Address inquiries to Dr. Fernando Santos-Granero, Chair, Search Committee on Archeology at: santosf@si.edu or Dr. Rachel Collin, Chair, Search Committee on Marine Science at: collinr@si.edu.

Review of applications will begin on February 15, 2011, and interviews will commence shortly thereafter.

STRI is an equal opportunity employer and appointments are made regardless of nationality.

"Collin, Rachel" <CollinR@si.edu>

SmithsonianTropResInst EvolutionaryMarineScience

RESEARCH POSITION IN MARINE SCIENCE

The Smithsonian Tropical Research Institute (STRI; see: www.stri.org), headquartered in the Republic of Panama, invites applicants interested in conducting research in the new world tropics to fill a permanent

research position in Marine Science. The Isthmus of Panama, completed 3 million years ago, is an ideal location for the study of divergence and speciation of tropical marine organisms. The successful candidate is expected to develop a strong research program, supervise students, collaborate with other staff, and provide service to the Institute.

STRI maintains modern research facilities, a library with extensive holdings in the natural and anthropological sciences, and support centers in Panama City, together with diverse stations for marine and terrestrial field work throughout the tropics. Staff scientists maintain cooperative research programs within a worldwide network of academic institutions. Opportunities for mentoring young scientists are available through a vigorous fellowship program, and formal teaching is possible through educational programs with affiliated universities.

We seek a broadly-trained marine scientist who addresses fundamental research questions and whose interests complement those of the existing staff. Applicants at any level and any specialty (including Evolutionary Biology) will be considered.

Minimum Qualifications: A Ph.D. in a relevant field, a demonstrated record of research excellence, and a commitment to communicating science to the public.

To Apply: Interested candidates should submit a single pdf file containing a summary of research accomplishments and interests, curriculum vitae, five significant reprints, and the names and contact information of three referees. Please send applications electronically to strimarinejob@si.edu. Address inquiries to Dr. Rachel Collin, Chair, Search Committee on Marine Science at: collinr@si.edu.

Review of applications will begin on February 15, 2011, and interviews will commence shortly thereafter.

STRI is an equal opportunity employer and appointments are made regardless of nationality.

Haris

H.A. Lessios Smithsonian Tropical Research Institute Balboa, Panama

Telephone: +507/212-8708 Fax: +507-212-8791 Telephone from the USA (domestic call): (703)-487-3770 x 8708

Mail address: >From the USA: MRC 0580-08 UNIT 9100 BOX 0948 DPO AA 34002-9998 USA

>From elsewhere: Box 0843-03092 Balboa, Panama

"Lessios, Harilaos" <LESSIOSH@si.edu>

UArkansas 2 PlantSystematics MicrobialEvol

Assistant Professor in Plant Biology

The Department of Biological Sciences (http://-biology.uark.edu) at The University of Arkansas solicits applications for a tenure-track Assistant Professor in the field of plant or algal biology (Position No. Y11928). We seek a Plant Biologist using photosynthetic organisms to explore topics including but not limited to systematics, developmental/physiological genetics or molecular ecology. Successful candidates must have a Ph.D., postdoctoral experience, and will be expected to establish an extramurally supported research program, supervise graduate and undergraduate research, and teach at the graduate and undergraduate levels. Review of completed applications will begin January 31, 2011, and will continue until the position is filled.

Applications should include curriculum vitae, a statement of current and future research plans, teaching interests, and three letters of recommendation. Application materials should be sent or emailed to the search committee chair: Dr. Jeffrey Silberman (jeff@uark.edu), Department of Biological Sciences, 601 SCEN, 1 University of Arkansas, Fayetteville, AR 72701

The University of Arkansas is an Equal Opportunity/Affirmative Action Employer. Applicants must have proof of legal authority to work in the United States at the time of hire. All applicants are subject to public disclosure under the Arkansas Freedom of Information Act.

Assistant Professor – Microbiologist

The Department of Biological Sciences (http://-biology.uark.edu) at The University of Arkansas solicits applications for a tenure-track Assistant Professor working in any area of microbiology (Position No. Y11929). The successful candidate will have a Ph.D., postdoctoral experience, and will be expected to establish an extramurally supported research program, supervise graduate and undergraduate research, and teach at the graduate and undergraduate levels. Review of completed applications will begin January 31, 2011, and will continue until the position is filled.

Applications should include curriculum vitae, a statement of current and future research plans, teaching

interests, and three letters of recommendation. Application materials should be sent or emailed to: Dr. Mack Ivey (mivey@uark.edu), Department of Biological Sciences, 601 SCEN, 1 University of Arkansas, Fayetteville, AR 72701

The University of Arkansas is an Equal Opportunity/Affirmative Action Employer. Applicants must have proof of legal authority to work in the United States at the time of hire. All applicants are subject to public disclosure under the Arkansas Freedom of Information Act.

Jeffrey Silberman University of Arkansas Department of Biological Sciences SCEN 738 Fayetteville, AR 72701 Tel: 479-575-2618 (o) Tel: 479-575-8621 (l) Fax: 479-575-4010 email: jeff@uark.edu

Jeffrey Silberman <jeff@uark.edu>

UBern FieldAssist EvolBirds

Expenses paid field assistant positions to study evolution of family living and cooperative breeding in birds

For the upcoming breeding season (end of March-July 2011) we are looking for 3 highly motivated field volunteers to join our field project investigating evolution of family living and cooperative breeding in birds. The study population is located near Guadix (Granada, Southern Spain).

Our project researches the shift in parental investment patterns in kin-group living and cooperative breeding birds. The project is based at the University in Bern (Switzerland) (PI Michael Griesser, Emeline Mourocq & Gretchen Wagner PhD students) and is a collaboration with Prof. Manolo Soler (University of Granada).

The work of the volunteer will be to help in carrying out field experiments, locating nests, assisting the PhD students in catching and banding of birds, and data management. This work will give insight into exciting experimental fieldwork and will be carried out in scenic semi-arid habitats close to the Sierra Nevada. We will work 5-6 days per week in the field depending on the work load. Observe that temperatures at the beginning of the field season can be below zero degree, and later on in the breeding season be easily above 35C.

Qualifications: (1) BSc or MSc in Biology, Behavioural Ecology or similar qualification (2) Previous field experience (3) Ability to work in small teams and sociable personality (4) Knowledge in observing & handling birds is a plus (5) Driving licence would be helpful (6) fluent in English (7) Basic knowledge of Spanish would be helpful.

This is an expenses paid field assistant position, covering accommodation, food and travel expenses of up to 300 Euro to and from the study site.

Applications - including a CV, a letter of motivation (1 page) and the name of two referees - should be send to: Emeline Mourocq: emeline.mourocq@iee.unibe.ch and Gretchen Wagner: gretchen.wagner@iee.unibe.ch

Applications received until 20th January 2011 will be given full consideration.

http://www.iee.unibe.ch/content/staff/griesser/-index_eng.html http://www.iee.unibe.ch/content/-staff/mourocq michael.griesser@iee.unibe.ch

UCaliforniaLosAngeles FieldAssist DamselflyEvolution

We are currently looking for field assistants to help with behavioral studies of damselflies (Hetaerina spp.) in Mexico.

Responsibilities include capturing and marking damselflies, behavioral observation, assisting with experiments, hauling equipment, etc. Conditions are rural (most field work will be in the state of Veracruz) and rugged. Accommodations will include a mix of field stations and camping. Assistants need to be comfortable working long days in rugged conditions. A valid passport is required.

Positions will be available from approximately February 25, 2011 to July 31, 2011 (and possibly beyond). Start and end dates are flexible within this range, but we ask that assistants make a minimum of an 8 week commitment.

All expenses including travel to and from Mexico and meals and lodging in Mexico are covered. We are also offering a moderate stipend.

Please contact Jonathan Drury (druryj@ucla.edu) with a CV (please include references and contact information), a sense of what dates you would be available, and a cover letter describing your interest in fieldwork, any substantial previous experiences abroad, and any experiences working or traveling in rugged outdoor conditions.

Jonathan Drury <druryj@ucla.edu>

UGeorgia FungalEvolution

The University of Georgia invites applications for three tenure-track positions in the biology of fungi and fungus-like organisms to join a highly interactive multi-departmental group of plant and microbial biologists.

1) The Department of Plant Biology in the Franklin College of Arts and Sciences seeks applicants at the level of assistant professor, though candidates may also be considered at the level of early associate professor. We are especially interested in applicants studying the biology, genetics, cellular biology, functional genomics, phylogenomics or ecology of plant-associated fungi, including mycorrhizal fungi.

2) The Department of Microbiology in the Franklin College of Arts and Sciences seeks applicants at the level of assistant professor, though candidates may also be considered at the level of early associate professor. We are especially interested in applicants studying fungal diversity and ecology; fungal interactions with plants, animals or other microbes; fungal natural products and their impact on the environment, food or human health; manipulation of fungi for industrial and environmental applications, such as biofuel production and bioremediation; and other areas in basic and applied fungal biology.

3) The Department of Plant Pathology in the College of Agricultural and Environmental Sciences seeks applicants at the assistant or associate professor level. We are especially interested in applicants studying plant-fungal interactions to facilitate management of economically important plant diseases, understanding the ecological and genetic dynamics of host-pathogen resistance, and using contemporary approaches to elucidate the phylogeny of plant-pathogenic fungal species.

Applicants at the assistant professor level should have a Ph.D. degree and postdoctoral research experience. Applicants at the associate professor level should also have a record of independent scientific productivity. Successful applicants will be expected to establish (assistant professor) or continue and expand (associate professor) a vigorous externally-funded research program and to instruct and mentor undergraduate and graduate students. To apply, the following should be submitted at https://-www.plantbio.uga.edu/positions/ : (1) a single PDF containing a cover letter which includes a statement of the position(s) the candidate is applying for, a curriculum vitae, and 1-2 page statements of research interests and teaching philosophy; (2) a single PDF containing reprints of three research papers; (3) three letters of recommendation submitted directly by the references. For questions, please contact Stephanie Chirello at schirello@plantbio.uga.edu or 706-542-1820. Review of applications will begin February 7, 2011, and the search will remain open until the positions are filled. The Franklin College of Arts and Sciences, the College of Agricultural and Environmental Sciences, their many units and the University of Georgia are committed to increasing the diversity of faculty and students and sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. The University of Georgia is an EEO/AA institution.

Jim Leebens-Mack 4505 Miller Plant Scinces Department of Plant Biology University of Georgia Athens, GA 30602-7271

Phone: 706-583-5573 Fax: 706-542-1805 email: jleebensmack@plantbio.uga.edu url: http://-www.plantbio.uga.edu/~jleebensmack/JLMmain.html
Jim Leebens-Mack <jleebensmack@plantbio.uga.edu>

UGeorgia StatisticalBioinformatics

Assistant or Associate Professor Position in Statistics / Bioinformatics

The Department of Statistics and the Institute of Bioinformatics at the University of Georgia invite applications for a position at the assistant or associate professor level, starting August 2011. Applicants must have a demonstrated research interest in bioinformatics. The tenure home for the position is in the Department of Statistics. A Ph.D. in statistics or a related field is required. Scholarly credentials must reflect a strong commitment to statistical research in bioinformatics, and senior applicants must have demonstrated this commitment in the form of an established research record of excellence. Applicants are expected to teach courses in both Statistics and the Bioinformatics degree program. In the form of a single PDF file, please send an application letter, curriculum vitae, statement summarizing research interests, and statement on teaching philosophy to bioinf@stat.uga.edu. Applicants at the assistant professor level should also

arrange to be sent under separate cover to the address below a graduate school transcript and at least three letters of reference. Applicants at the associate professor level should provide names and addresses of three references that can be contacted. Applications received by January 14, 2011, will be assured consideration. For more information about the department and the institute, please go to http://www.stat.uga.edu and http://www.bioinformatics.uga.edu/ . Bioinformatics Search Committee Statistics Department University of Georgia 101 Cedar Street Athens, GA 30602

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

Paul Schliekelman Associate Professor Department of Statistics University of Georgia Athens, Georgia

pdschlie@uga.edu

UKansas LabTech Epigenetics

Research Assistant/Technician: Epigenetics of small RNAs

A research assistant position in the field of epigenetics is available in the Blumenstiel lab (http://www.people.ku.edu/ ~ jblumens/) at the University of Kansas. The overall goal of the lab is to describe the function and evolutionary dynamics of epigenetic regulation by small RNAs. The research assistant will directly contribute to both lab management and the lab research program.

Responsibilities include:

Assisting in the daily operation of the lab including ordering supplies, preparation of reagents and maintaining fly stocks.

Molecular biology laboratory procedures: DNA and RNA extraction, PCR, high throughput sequencing

Contributing to the lab research program by working as a team member and contributing intellectually to the group

Qualifications:

A strong work ethic, the ability to work independently and enthusiasm for research in genetics, epigenetics or evolution.

A Bachelors degree in biological sciences or related field and some experience in lab research.

Strong organizational skills and attention to detail.

Special consideration will be given to applicants that also possess any of the following skills or experience:

Laboratory research experience in molecular genetics.

Experience in Drosophila genetics research.

Familiarity with bioinformatics and a computer programming language such as PERL.

To apply, please apply online at: https://jobs.ku.edu/ and search for Research Assistant, Position Number: 00207466.

Contact jblumens@ku.edu for inquiries.

jblumens@ku.edu

UMichiganDearborn PopulationGenetics

Assistant Professor of Biology

The University of Michigan-Dearborn invites applications for a tenure- track assistant professor position in environmental biology beginning September 2011. Applicants must hold a Ph.D., be committed to teaching, and be able to develop an active research program that will involve undergraduate students and attract external funding. Previous teaching or postdoctoral experience is preferred. Teaching duties will likely include Ecology, Environmental Science, and either Population Genetics and Evolution, or Applied Ecology, or participation in introductory biology. Future development of new courses is also possible.

The area of specialization within ecology/evolutionary biology/ environmental science is open and should complement existing faculty/ departmental strengths. Research space, modest start-up funding, and teaching released time are available. Submit a letter of application, curriculum vitae, a statement of teaching philosophy, a description of research plans, and the names of three references to: Environmental Biology Faculty Search, Department of Natural Sciences, University of Michigan-Dearborn, 4901 Evergreen Rd., Dearborn, MI 48128. Review of applications will begin January 17,

2011. The University of Michigan-Dearborn is a non-discriminatory, affirmative action employer. Women and underrepresented groups are encouraged to apply.

danfranc@umd.umich.edu

UNevada Reno EvolutionEcol

Dear Colleagues, the University of Nevada, Reno, is advertising for an Ecologist position (assistant professor), please see description below and feel free to contact me with questions. Matt Forister, forister@gmail.com.

The Biology Department at the University of Nevada, Reno (UNR) has targeted EECB (ecology, evolution, and conservation biology) as a strategic focus for growth and is seeking:

An ECOLOGIST - Assistant Professor (tenure track)

The position is open with regard to area of specialization. The departments areas of research excellence include conservation biology, conservation and evolutionary genetics, behavioral ecology, and evolutionary ecology. Our EECB faculty are well funded by diverse sources, including NSF and NIH.

Applicants for this position should have expertise that complements and expands the research capacity of the department. The successful candidate will be provided with a competitive start-up package and will be expected to maintain nationally recognized, extramurally funded research programs. The Department has 765 majors, 45 MS and PhD students, and 24 state-funded faculty. In addition, a new interdisciplinary program in Neuroscience supports 114 majors. Reno sits on the eastern flank of the Sierra Nevada in close proximity to desert and montane field sites and to Lake Tahoe, and it was recently rated one of the best small cities in the US for overall quality of life. Applicants should apply online at www.unrsearch.com, where they should submit an application letter, a curriculum vitae, a statement of research plans, a statement of teaching interests and philosophy, and contact information for three references. Please see https://www.unrsearch.com/-postings/8591 for additional details. Applications received by 21 January 2010 will receive full consideration. Start date for the position is fall semester 2011.

Equal Employment Opportunity/Affirmative Action. Women and underrepresented groups are encouraged to apply.

Matthew L Forister Assistant Professor Department of Biology / MS 314 1664 N. Virginia St. University of Nevada, Reno Reno, Nevada 89557

E-mail: forister@gmail.com Office phone: (775) 784 - 6770 Lab phone: (775) 784 - 7083 Fax: (775) 784 - 1302 Office: room 257 Fleischmann Agriculture Building

Webpage: https://sites.google.com/site/-greatbasinbuglab/ Matthew Forister <forister@gmail.com>

UOxford EvolutionaryGenomics

UNIVERSITY LECTURESHIP IN EVOLUTIONARY OR ECOLOGICAL GENOMICS

University of Oxford, Department of Zoology, in association with St Hilda's College

Applications are invited for a University Lectureship in the area of Evolutionary or Ecological Genomics (Animal Bioinformatics) with effect from 1 September 2011 or as soon as possible thereafter. The successful candidate will be appointed to a Tutorial Fellowship in Zoology at St Hilda's College. The combined University and College salary will be on a scale up to £57,201 per annum; an additional College housing allowance of £5,300 per annum is available if the successful candidate does not reside in College.

The successful candidate will have a strong research background in the bioinformatic analysis of genomic, transcriptomic or other complex datasets, especially applied to animal evolution or ecology. The successful candidate will be expected to lead a research programme in this subject area, to give lectures and tutorials, to supervise graduate students and to carry out examining and administrative duties in the Department and the College.

Further details about the post as well as the application procedure are available at http://www.zoo.ox.ac.uk/-jobs The closing date for applications in noon on 25 January, and it is expected that interviews will be held on 15 March 2011.

The Department of Zoology is the country's foremost Department researching whole organism biology from an evolutionary perspective. Research focuses on aspects of behaviour, development, disease, ecology and evolution, though most members of the Department work at the interface of two or more of those topics. Detailed information about the Department of Zoology

may be found at http://www.zoo.ox.ac.uk/ . –

Judith Mank Department of Zoology University of Oxford South Parks Road Oxford OX1 3PS

+44 (1865) 281 312

judith.mank@zoo.ox.ac.uk

UQueensland 3 EvolBiol

The School of Biological Sciences at The University of Queensland is seeking to make three academic appointments at the Lecturer/Senior Lecturer level (equivalent to assistant professor) in any area of Biology.

We are a large research-intensive School at one of Australia[1]s premier Universities, with 41 full-time academic staff, and over 250 enrolled PhD students. The School offers a dynamic research environment, having a young staffing profile, with 13 of our tenure-track academic staff holding competitive Fellowships. The School is one of the most successful in Australia in attracting competitive research funds, and staff enjoy modest undergraduate teaching commitments. The School has broad expertise across ecology and evolution, molecular and quantitative genetics, paleobiology, developmental biology, behaviour, plant and animal physiology, and conservation biology. Our research programs involve a diverse array of taxa, ranging across microbes, animals and plants, including a particular focus in the areas of marine biology and entomology. Unique opportunities for biological research are provided by our proximity to a stunning array of marine and terrestrial subtropical habitats and their endemic biodiversity. A number of research programs in the School take advantage of major model-organism systems, including Drosophila, C. elegans, and Arabidopsis, and many include a strong quantitative and modeling focus.

We are seeking applications from individuals with outstanding research records in any area of Biology; a demonstrated record of, and the future potential for, high quality research is the primary selection criterion. Applicants who have or will develop a research program that bridges two or more of our current areas of research strength are particularly encouraged to apply. Competitive start-up packages will be available to the successful applicants.

Remuneration: These are full-time, continuing appointments at either Academic Level B (Lecturer) or Academic Level C (Senior Lecturer). The salary will be in the range of $76,789 to $91,187 p.a (Lecturer) or $94,066 to $108,464 p.a. (Senior Lecturer), plus employer superannuation contributions of 17%.

Contact: Obtain the position description and selection criteria online. To discuss the role contact Claire Fuller, email c.fuller@uq.edu.au.

Send applications to Claire Fuller, School of Biological Sciences, The University of Queensland, St Lucia, Qld 4072, or email

Applications close 1 February 2011.

Reference No: 3012541

m.blows@uq.edu.au

USheffield 4 EvolutionaryBiol

Dear All

The following positions were advertised recently. Our Department's strengths particularly include evolutionary biology and ecology, but any area of biology would be considered. Please feel free to contact me if you wish to discuss the opportunities informally; note that the deadline is relatively short.

Terry Burke

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University of Sheffield Department of Animal and Plant Sciences Chair/Senior Lectureship/Lectureship in Biology (up to 4 posts) (Ref No. UOS002067)

The Department of Animal and Plant Sciences is looking to further its world-leading research portfolio and excellent undergraduate programmes by appointing up to four outstanding scientists. We are especially interested in individuals who conduct rigorous, field- and/or laboratory-based research that addresses one of the major challenges facing humanity: namely how to meet the increasing global demands for food, fuel and fresh water whilst minimizing environmental impact. This challenge can be addressed at any level and potential research areas range from biochemistry and genetics through to ecosystem ecology and environmental sustainability. Applicants who would complement other aspects of the Department's research strengths would also be considered.

Post-holders will join a vibrant department and benefit from excellent research facilities, including a £4.5 million state-of-the-art environmental research centre.

The department is one of the largest in the UK devoted to the study of whole organism biology and is ranked joint 3rd in the UK for research and 4th for teaching.

Applicants should have a PhD in a relevant discipline (or equivalent experience), an excellent publication record for their career stage and evidence of obtaining independent research funding. The ability to organize and carry out teaching, supervision and research training to a high standard is also essential.

You can view the supporting documentation at http://-/bit.ly/ihREtz Closing date 31 December 2010

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Terry Burke Professor of Molecular Ecology +44 114 222 0096

t.a.burke@sheffield.ac.uk

UUppsala FieldAssist EvolBirds

Field assistant position to study life-history evolution in Siberian Jays in Swedish Lapland

For the upcoming field season (from mid-May to the end of July 2011) we are looking for i) a highly motivated field assistant and ii) an expenses paid field volunteer to join our field project investigating life-history evolution in Siberian jays (Perisoreus infaustus). The study population is located near Arvidsjaur, Swedish Lapland.

Our current project investigates the influence of dispersal timing on the evolution of life-history strategies. The project of Prof. Jan Ekman is based at Uppsala University, and this particular project is jointly driven by Joanna Sendecka (Uppsala University) and Michael Griesser (University of Bern, Switzerland).

The work of the field assistant and field volunteer will be to help in field experiments, behavioural observations, and data management. This work will give insight into exciting experimental fieldwork and will be carried out partly in managed forests and partly in scenic pristine boreal habitats. We will work 5-7 days per week in the field depending on the workload of the experiments. Days in the field can be long in particular around midsummer when following dispersing individuals.

Qualifications: (1) BSc/MSc in Biology, Ecology or similar qualification (2) Previous field experience (3) Ability to work in small teams and sociable personality (4) Knowledge in observing & handling birds required for field assistant (5) Driving licence would be helpful (6) fluent in English

We will cover for the accommodation, travel expenses from and to the study site. Salary of the field assistant level will be set depending on qualification and experience. We will also cover the living expenses of the field volunteer.

Applications - including a CV, a letter of motivation (1 page) and the name of two referees - should be send both to:

Joanna Sendecka: joanna.sendecka@ebc.uu.se and Michael Griesser: michael.griesser@iee.unibe.ch

Applications received until 1st March 2011 will be given full consideration.

Michael Griesser Institute of Ecology and Evolution Baltzerstrasse 6 CH-3012 University Bern Switzerland

http://www.iee.unibe.ch/content/staff/griesser/-index_eng.html michael.griesser@iee.unibe.ch

UWesternSydney PopulationGenetics others

Dear colleagues,

The Centre for Plants and the Environment at the University of Western Sydney is evolving into the larger Hawkesbury Institute for the Environment, HIE. As a consequence, we are undertaking a major recruitment round for 11 new positions in the following areas:

Bioinformatics

Invertebrate biology including soil fauna

Water movement in soil and plants

Plant molecular biology

Plant/animal interactions

Soil/plant mineral nutrition

Biodiversity and invasive species

Population genetics

Landscape scale hydrology/ecohydrology modelling

Ecosystem/atmosphere modelling

The HIE is interested in attracting enthusiastic researchers at various stages of their careers (levels B to E) with research activities aligned with the HIE's core

research interests (please visit www.uws.edu.au/hie <https://email.uws.edu.au/exchweb/bin/redir.asp?URL=3Dhttp://www.uws.edu.au/hie>). With light teaching commitments and fantastic research facilities, the HIE presents an excellent platform for junior researchers to establish their research lines and for senior researchers to undertake major leaps. Please do not hesitate to contact any of the HIE researchers about these positions.

Remuneration packages from $93,187 to $179,304 p.a.

(including 17% superannuation and leave loading).

Closing date, 12 December 2010.

For more details and how to apply please see http://-careers.uws.edu.au and look for Ref 1245/10 Lecturer / Senior Lecturer / Associate Professor / Professor, Hawkesbury Institute for the Environment.

Forwarded by: Dr Markus Riegler Centre for Plants and the Environment School of Natural Sciences University of Western Sydney Locked Bag 1797 Penrith South DC NSW 1797 Australia email: m.riegler@uws.edu.au

M.Riegler@uws.edu.au

UWisconsin-Parkside ComparativeAnatomy

Assistant Professor, Anatomy

The Biological Sciences Department of the University of Wisconsin- Parkside invites applicants for a Tenure-Track Assistant Professor (9 month) position in anatomy to begin August 2011. Successful candidates will have a Ph.D. in biological sciences with graduate training in human anatomy.

Responsibilities: The successful candidate will teach lecture and laboratory courses in human anatomy to health-oriented undergraduate students in Biological Sciences, Nursing, and Applied Health Sciences majors. This position will involve working collaboratively with other biology instructors in shared lab and lecture courses. The incumbent will establish and maintain an active research program that engages students in an area related to human anatomy, morphology, development, or physiology; or comparative anatomy in vertebrates, especially mammals; with demonstrated grant writing ability; and success at securing external funds to support research.

Qualifications: Required: * Ph.D. in biological sciences * Graduate experience in human anatomy * Strong interest in undergraduate education * Relevant teaching experience * Demonstrated interest in teaching a culturally diverse student population * Significant research experience substantiated through peer- reviewed publications

Preferred: * Post-doctoral experience * Dissection skills relevant to human anatomy; experience working with a cadaver * Experience studying and teaching anatomy using a systems approach; and expertise in human histology and/or pathology * Demonstrated ability to establish and maintain an active research program in area related to human anatomy, morphology, development, or physiology; or comparative anatomy in vertebrates, especially mammals * Demonstrated grant writing ability; and success at securing external funds to support research

Salary: Salary is commensurate with qualifications and experience. The University of Wisconsin System provides a liberal benefits package, including participation in a state pension plan.

The University: UW-Parkside is committed to academic excellence, student success, community engagement, and diversity and inclusiveness. The University enrolls approximately 5,300 students, many of whom are first generation and nontraditional students. Located in northern Kenosha Country in the Chicago-Milwaukee urban corridor, much of the university's 700-acre campus has been preserved in its natural wooded and prairie state.

The Department: The Department of Biological Sciences, consisting of nine tenure-track faculty and six lecturers (several with doctorate), offers BS degrees in Biological Sciences and Molecular & Bioinformatics, and the MS in Applied Molecular Biology. For further information, please go to http://www.uwp.edu/-departments/biological.sciences/index.cfm Review of Applications: Applications received by February 1, 2011 are ensured full consideration; position is open until filled.

To Apply: Interested candidates should submit the following, preferably in electronic format: * Curriculum Vitae * Cover Letter * Statement of teaching philosophy * Syllabi for previous courses taught * 3 letter of reference with contact information

Email submissions to: aiello@uwp.edu

Mail submissions: Attn: Ms. Katy Aiello Search Committee, Biological Sciences University of Wisconsin-Parkside 900 Wood Road Kenosha, WI 53141

UW-Parkside is an AA/EEO employer D/M/V/W

Gregory C. Mayer Dept. of Biological Sciences University of Wisconsin-Parkside 900 Wood Road Kenosha, WI 53141-2000 USA 262-595-2074 office 262-595-2056 fax mayerg@uwp.edu http://uwp.edu/~mayerg/ mayerg@uwp.edu mayerg@uwp.edu

UWyoming UndergradSummerResearch

A more detailed version of information in this email can be found online at:

http://www.wyomingbioinformatics.org/-SummerSchool/ Bioinformatics and Computational Molecular Biology Undergraduate Summer Research Program University of Wyoming The University of Wyoming is proud to offer summer research opportunities to external undergraduate students to engage in research in bioinformatics and computational molecular biology in Laramie. The summer research program will last from May 23, 2011 to August 5, 2011 and will include a stipend of $3500 for the period.

The program includes both lectures and educational opportunities as well as a focus on a research experience. Lectures will be given by both University of Wyoming faculty and external speakers.

Several labs that will host bioinformatics/computational molecular biology students include:

* Alex Buerkle: Statistical genetics and models of adaptation and speciation * * Rex Gantenbein: Computational resources for rural health and education

* Mark Gomelsky: Statistical analysis of microarray data; microbiology

* Snehalata Huzurbazar: Birth-death processes in biology

* Jan Kubelka: Protein folding

* David Liberles: Comparative genomics and molecular evolution

* Rongsong Liu: Epidemiological modeling

* Jessica Siltberg-Liberles: Protein structural bioinformatics

* Anne Sylvester: Comparative genomics of maize

* Dan Wall: Genetics of bacterial motility

* Naomi Ward: Metagenomics and Microbial Genomics

* Cynthia Weinig: Environmental Genetics and Adaptation in Plants

To apply, send a resume, cover letter, and statement of research interests to liberles@uwyo.edu, arrange to have 2 letters of recommendation sent directly by the letter writer to liberles@uwyo.edu, and arrange to have an official transcript sent to:

David Liberles Department of Molecular Biology Dept. 3944 University of Wyoming Laramie, WY 82071

Your cover letter should indicate: 1). Any prior experience in computer programming and if none, any interest in a mini-tutorial on programming; 2). Your plans (if known) immediately after graduation and if they include immediately attending graduate or professional school; 3). If your ultimate career plans involve a Ph.D., an M.D., or an M.D./Ph.D., and 4). Your top two choices of research group to work in over the summer.

We welcome your application for summer, 2011. Review of applications will begin on February 7, 2011 and continue until the class is full.

David Liberles <liberles@uwyo.edu>

Vienna groupLeader

Dear Evolutionists,

I'd like to draw your attention to the the tenure track group leader positions announced by the Max F. Perutz Laboratories, University of Vienna (see below). These positions come with a very generous start-up package and should also be available for an outstanding evolutionary researcher working with molecular data and techniques. The research landscape in Vienna for evolutionists is very attractive (see www.evolvienna.at).

Best wishes,

Joachim Hermisson.

(Informal inquiries can be sent to joachim.hermisson@univie.ac.at)

Faculty Openings

The Max F. Perutz Laboratories (MFPL; www.mfpl.ac.at) are a recently established joint venture of the University of Vienna and the Medical University of Vienna, engaged in top level biomedical

research and training. MFPL houses more than 60 research groups, covering areas that include Cell Signaling, Chromosomes, Cytoskeleton, Infection Biology, Organelle Biogenesis, RNA Biology, Structural and Computational Biology, including Bioinformatics. MFPL is embedded in the Vienna Biocenter Campus, one of Europes leading Research Centers.

Junior Group Leader Positions V Tenure Track

Positions are available for outstanding scientists from any research field who address fundamental biological questions. These tenure track positions are offered initially for six years, and include internationally competitive salaries and a generous start-up package.

Applications should include a CV, a brief summary of past research and future plans, up to three representative publications, and the contact addresses of three referees. Please email your application (preferably as a single PDF) to

juniorgroupleaders-2011@mfpl.ac.at c/o Graham Warren.

Closing date for applications is February 28th, 2011.

MFPL wishes to increase its share of female researchers and we explicitly encourage women to apply for these group leader positions. The campus hosts an international kindergarten and applications from couples are encouraged. The working language of the Institute is English.

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

Vienna GroupLeader FunctionalPopulationGenetics

Tenure Track Group Leader Position in Functional Population Genetics at the Institute of Population Genetics (Vetmeduni Vienna)

We are searching for a dynamic and enthusiastic scientist with an excellent track record and preferably with proven ability to attract extramural funding. Candidates should have a keen interest to build a research group focusing on the functional analyses of natural variation in Drosophila.

The position is associated with the Institute of Population Genetics at the Vetmeduni Vienna (http://-i122server.vu-wien.ac.at/pop/). The successful candidate will have priority access to a state of the art core facility (including an Illumina sequencer) and well-equipped laboratory space. The Vienna Graduate School of Population Genetics (http://www.popgen-vienna.at) attracts an international body of graduate students and will be open to the new faculty member.

In recent years Vienna has developed into one of the leading centers in population genetics and evolutionary biology (http://www.evolvienna.at) and is home to a high profile Drosophila research community and the VDRC Stock Center. In an addition to a stimulating scientific environment, Vienna also offers an extraordinary quality of living. 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 April 2011. 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 January, 30 to ensure full consideration.

Christian Schlötterer Institut für Populationsgenetik Veterinärmedizinische Universität Wien Josef Baumann Gasse 1 1210 Wien Austria/Europe

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

WayneStateU ComparativeGenomics

Faculty Position in Comparative Genomics at Wayne State University

The Department of Biological Sciences at Wayne State University (http://www.clas.wayne.edu/biology/) is recruiting tenure-track faculty with research expertise

in comparative genomics as applied to systematics, evolution, or developmental biology. Rank will be dependent upon qualifications. Preference will be given to candidates who use innovative approaches to study complex biological problems using animal, plant or microbial models. Wayne State University is a large, comprehensive, nationally ranked research institution that offers state-of-the-art research facilities and highly competitive start-up packages. The metropolitan Detroit area offers a rich cultural and educational environment, an excellent standard of living, and easy proximity to Michigans lakes, forests and recreational sites. Applicants must have a Ph.D. degree, postdoctoral experience and an outstanding record of research achievement. Successful applicants are expected to establish and maintain vigorous, externally funded research programs and to participate in graduate and undergraduate education. All positions are posted on-line at jobs.wayne.edu. In addition to an online application that includes cover letter and curriculum vitae, applicants must submit a 2-page statement of their research plans and have three letters of reference sent to: Faculty Search Committee, Department of Biological Sciences, Wayne State University, 5047 Gullen Mall, Detroit, MI 48202. Please apply by February 1, 2010 for full consideration. Applications will be considered only when all materials have been received.

Wayne State University is an affirmative action/equal opportunity employer. Women and members of minority groups are especially encouraged to apply.

– Markus Friedrich Associate Professor Department of Biological Sciences Wayne State University 5047 Gullen Mall Detroit, MI 48202

office: 313 577 9612 lab: 313 577 5120 fax: 313 577-6891 http://friedrichlab.googlepages.com/home Markus Friedrich <friedrichwsu@gmail.com>

YaleU BiodiversityProgrammer

1 Researcher/Programmer position in Geo-/Eco-/Biodiversity-Informatics; Analysis and management of biological geospatial data.

Jetz Lab, Dept of Ecology and Evolutionary Biology (EEB), Yale University

One two-year position is available in our research group starting summer 2011 to work in areas related to the ongoing NSF projects Map of Life: An infrastructure for integrating global species distribution knowledge. This is a post-BA/BSc/Master position. We are looking for someone with excellent programming skills and a strong interest in learning and developing new approaches to support the management and web-delivery of biodiversity data and tools. The successful candidate will likely have knowledge in most of the following: Java, Python, php, R, Linux. Experience in the analysis of remote sensing data and/or the use of SQL/postgreSQL, PostGIS, ArcGIS will be a plus. If preferred, half-time employment is possible.

RESEARCH GROUP: In the Jetz Lab, the successful candidate will interact with a number of PhD students postdoctoral fellows. For further information

see: www.yale.edu/jetz. Yale has a thriving community of postdocs and graduate students in ecology, evolution and global change science. The postdoctoral fellow will benefit from interactions with the EEB Department, the Yale Institute for Biospheric Studies (www.yale.edu/yibs), the Peabody Museum (both physically connected to EEB), the Yale Climate & Energy Institute, and the Yale School of Forestry and Environmental Studies (http://environment.yale.edu).

APPLICATION: Please email a short letter of interest, C.V., and the names and contact details of three referees (ideally all combined in one pdf) to walter.jetz@yale.edu - subject line: Biodiversity Positions. Please submit application materials before 16 Jan, 2011.

walter.jetz@yale.edu

Other

Austria SummerFellowships

Summer Fellowships for Young Scientists at the International Institute for Applied Systems Analysis

Funding is available for PhD students interested in three months of collaborative research during June-August 2011 on

Evolutionary and Ecological Modeling

in population ecology, evolutionary ecology, community ecology, spatial ecology, biodiversity research, fishery science, and vegetation science.

Young scientists from all countries are eligible for stipends provided by IIASA's Evolution and Ecology Program (EEP) that contribute to travel and accommodation costs. Students from Austria, China, Egypt, Finland, Germany, India, Japan, Korea, the Netherlands, Norway, Pakistan, Russia, South Africa, Sweden, and the USA are eligible for fellowships that provide travel, accommodation, and living expenses.

Model-based summer research projects are invited in the following indicative areas:

Evolutionary Community Ecology Food-Web Evolution VegetationDynamics Adaptive Speciation Evolutionary Conservation Biology

Fisheries Management Fisheries-induced Evolution

Evolution of Cooperation Governance of Common Goods

Systemic Risks and Network Dynamics

Eco-Evolutionary Dynamics Adaptive Dynamics Theory and Models SpatialModels in Ecology andEvolution

Applicants prepare a research proposal that corresponds to their scientific interests and to the research agenda of theirhosting IIASA Program. Accepted applicants begin work before the summer by planning their research in close collaboration with their IIASA supervisors. For work in EEP, previous experiences with implementing and studying evolutionary or ecological models are important assets. To improve their chances of being selected, potential applicants are encouraged to sent informal inquiries regarding their specific research interests and plans to EEP's program leader Ulf Dieckmann (dieckmann@iiasa.ac.at).

Online applications will be accepted until Monday, January 17, 2011.

Since 1977, the annual Young Scientists Summer Program (YSSP) of the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria, has attracted 1500+ students from 80+ countries. The YSSP 2011 will take place from June1 to September 1, 2011. IIASA is located in the former summer palace of Austria's royal family, ca. 15 km south of Vienna. IIASA's summer program offers exceptional opportunities for acquiring experience in an international and interdisciplinary research environment. Research training is based on regular personal interaction with advising scientists, and typically leads to a publication in an international journal, as well as to a chapter in a candidate's PhD thesis.

Some useful links:

+ www.iiasa.ac.at/Admin/YSP/reg-info/-more_about_the_program.html Details about the summer program, and online application

+ www.iiasa.ac.at/Research/EEP Information about IIASA's Evolution and Ecology Program

+ www.iiasa.ac.at/Research/EEP/Students.html Examples of successful YSSP projects

+ www.iiasa.ac.at/docs/IIASA_Info.html General in-

formation about IIASA

Ulf Dieckmann Program Leader Evolution and Ecology Program International Institute for Applied Systems Analysis A-2361 Laxenburg Austria

Email dieckmann@iiasa.ac.at Phone +43 2236 807 386 Phone secretary +43 2236 807 231 Fax +43 2236 807 466 or +43 2236 71313 Web http://www.iiasa.ac.at/Research/EEP Online reprints http://www.iiasa.ac.at/~dieckman FroSpects Network http://www.iiasa.ac.at/Research/EEP/FroSpects FinE Network http://www.iiasa.ac.at/Research/EEP/FinE FishACE Network http://www.iiasa.ac.at/Research/EEP/FishACE dieckmann@iiasa.ac.at

Bivalve DNA amplification

Conversation: Bivalves Subject: Bivalves

Hello I am trying to amplify COI, 12s, and 16s for marine bivalves and am having complications. I can only get approximately 30% or so to amplify. I have extracted using a phenol method, standardized the genomic, and used additives. Is there anyone who has any suggestions on how I should proceed? Please I am in desperate need of some bivalve expertise.

Robin Turner Laboratory of Analytical Biology Smithsonian Institution MSC 4210 Silver Hill Rd. Suitland, MD 20746 Email: turnerr@si.edu Phone: (301)238-1119

"Turner, Robin" <TurnerR@si.edu>

DNA from Anemone

Hello,

I am a masters student studying with Sean Rogers and Jana Vamosi at the U of Calgary and I am investigating the role of hybridization and polyploidy in alpine and prairie adaptation in Anemone multifida. Part of my project requires me to construct a phylogeny of Anemone species related to A. multifida.

If you have seeds, DNA or tissues dried in silica (or otherwise preserved) of the following species, it would be greatly appreciated if we could get an aliquot, seeds, clipping, etc.:

Anemone parviflora Anemone lithophila Anemone drummondii Anemone virginiana Anemone sylvestris Anemone riparia

Thank you!

Jamie McEwen

jamie.r.mcewen@gmail.com

Evolution practical exercise answers

Dear all,

At the end of last week I posted a message asking for ideas for Evolution practicals. Judging from the response I got this is something a lot of people would like to share more information on, and teaching Evolution in general.

* Sarah Stockwell sent a link to a list she has assembled which has a lot of interesting ideas http://sarahstockwell.wordpress.com/teaching/ * Peter Roessingh suggested using the computer practical Evolutionlab http://www.biologylab.awlonline.com/index.html * Andrew Crawford suggested I read Frey & Lively (2010), Evolution: Education and Outreach, Vol 3, pp 114-120. This journal has free access until 31st Dec, so may be worth looking through for other aspects of teaching Evolution. * Sujal Phadke suggested using the computerised simulation popgen and also sent 3 links http://www.biologyinmotion.com/evol/index.html http://www.biologycorner.com/worksheets.html http://www.thatsevolution.com/ * Amr Aswad suggested looking at selection for C. elegans to learn to avoid pathogenic bacteria. * Sean Werle suggested getting students to make a squash of polytene chromosomes http://people.umass.edu/swerle/reprints/Werle_et_al_2004.pdf * Henry Schaffer suggested using Drosophila, students cross Drosophila and count the progeny in order to estimate the heritability of a recessive lethal allele, which also gives heterozygote advantage. He says that he then asks the students to plug their estimates into http://www.cals.ncsu.edu/course/gn412/select-sb.html, then click on "Plot values". There is some background and discussion for the instructor is at http://www.cals.ncsu.edu/gn/ex/select-sb-disc.html He also suggested this exercise on drift http://www.cals.ncsu.edu/gn/ex/mit-eve.html *

Christophe Boete suggested these 2 websites http://-/evolution.berkeley.edu/evosite/evohome.html and http://www.pbs.org/wgbh/evolution/educators/-index.html * I decided that I would get students to investigate sexual selection for hissing and agonistic behaviours in hissing cockroaches, as this model includes aspects of female choice and male-male competition.

Thank-you for all your suggestions and I hope others find this list useful,

Judith

Dr Judith Lock School of Biological Sciences Life Sciences Building 85 University of Southampton Highfield Campus Southampton SO17 1BJ

"Lock J.E." <J.E.Lock@soton.ac.uk>

JohnMaynardSmith prize

Announcement of the 2011 John Maynard Smith prize of the ESEB

Every two years the European Society for Evolutionary Biology distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

The prize winner is expected to attend the ESEB congress in Tuebingen, Germany (20-25 August 2011), where he or she will deliver the John Maynard Smith Lecture. The Society will pay registration, accommodation, and travel expenses (economy fare).

The Prize also includes the possibility of a Junior Fellowship of generally 3 months at the Institute of Advanced Study (Wissenschaftskolleg) in Berlin, Germany. Information about the fellowship can be found under http://www.eseb.org. Further Junior Fellows for the Wissenschaftskolleg may be selected from the other applicants. For more information on Junior Fellowships at the Wissenschaftskolleg zu Berlin, or information on this institution, see http://www.wiko-berlin.de/?&L=1 or contact Paul Schmid-Hempel, ETH Zurich, Switzerland.

Previous winners of the JMS Prize are listed on the ESEB web site: www.eseb.org Nomination: The prize is open to any field of evolutionary biology. Candidates for the prize may be nominated by a colleague or self-nominated; the nomination must be accompanied by the candidate's CV, a list of publications, a short description of future research plans, the names and addresses of two referees, and a letter from the candidate approving the nomination. Candidates for the 2011 prize must have received a PhD (or equivalent) degree no earlier than January 2009.

The nominations should be sent by email to:

Sally Otto EMAIL: otto@zoology.ubc.ca 6270 University Blvd University of British Columbia Vancouver BC V6T 1Z4 CANADA FAX: +1 (604) 822-2416

Nominations should arrive no later than January 30, 2011. Please take care to limit the size of attachments (total < 10 MB) in any one email.

"Sarah P. Otto" <otto@zoology.ubc.ca>

Macclade Alternatives answers

Many thanks to everyone who replied to my earlier post seeking a windows alternative to MacClade for teaching systematics in intro bio labs. I received over 2 dozen replies within 24 hours. Several folks asked me to post a summary of the replies.

Over 90% suggested Mesquite, which is a JAVA based program also written by the Maddisons (the authors of MacClade) Information on mesquite is available here http://mesquiteproject.org/mesquite/-mesquite.html Steve Jordan at Bucknell (see 1st post below) has general instructions on Mesquite for his intro bio students that folks are welcome to check out.

A selection of the replies I got is below:

I was faced with this same problem several years ago, and found Mesquite to be a good alternative. We've used Mesquite to teach systematics labs now to hundreds of students on PCs and Macs without any major problems. A nice aspect of Mesquite is the fact that it is platform-independent, so the instructions can be virtually identical for PC or Mac users. It is also freeware.

Here is a link to our lab website. The labs that use Mesquite are numbers 3 and 4. Feel free to use or modify these if you'd like.

http://www.departments.bucknell.edu/biology/-courses/core/biol208/labs/ Thanks,

Steve

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 Have you tried PAUP (licensed) or PHYLIP (free)? Birgit

I think there is a windows program called CLADOS that does the same thing as MacClade does. I have not used in a long time.

was going to suggest mesquite which is free & available on windows. there is also used a web-based program, swami –http://www.ngbw.org/ .hope you are doing well-

I used to use WinClada.

That still might work.

Please let me know if you find something better.

I am pretty sure the exercise could be done in R (which is free), just not confident about calculating CI values in R since I have not done it. There is an excellent resource also about how to do many phylogenetic analyses/manipulations in R located here: http:/-/www.r-phylo.org/wiki/HowTo_Table_of_Contents Using R would also be a great way to introduce students to command line coding software, which is a really valuable skill.

I would recommend MEGA for doing cursory alignments and tree constructions on a PC. http://-www.megasoftware.net/ I'm not sure about swapping branches in MEGA but it may be easy to import a tree from MEGA into another tree viewing program such as FigTree.

—

Sarah Gilman, Ph.D.

Joint Science Department Keck Science Center The Claremont Colleges 925 N. Mills Avenue Claremont, CA 91711

http://faculty.jsd.claremont.edu/sgilman
sgilman@jsd.claremont.edu 909-607-0715

Sarah Gilman <sgilman@jsd.claremont.edu>

MacClade teaching alternatives

Hello,

I'm looking for recommendations for windows-based alternative to MacClade for teaching purposes. We teach an intro bio lab on systematics in which students complete a matrix of roughly 10 characters x 10 species and then use MacClade to manually swap branches around and see how that affects tree metrics like length & CI. Unfortunately the current computer labs available for this exercise are all Windows machines, and so we need to come up with an alternative program. Ideally the program should be able to input a character matrix, produce a tree, and let the students swap branches and see how that alters the # transitions per trait and overall CI of the tree.

If anyone has a suggestion, please let me know.

Thanks, Sarah

Sarah Gilman, Ph.D.

Joint Science Department Keck Science Center The Claremont Colleges 925 N. Mills Avenue Claremont, CA 91711

http://faculty.jsd.claremont.edu/sgilman
sgilman@jsd.claremont.edu 909-607-0715

SGilman@jsd.claremont.edu

MarineEvolution ASSEMBLE call

Dear EVOLDIR colleagues,

ASSEMBLE is an EU FP7 research infrastructure project comprising a network of marine research stations, as listed below. We offer on-site and remote access for European research groups to conduct marine research projects, including projects that focus on evolutionary biology using marine models.

The 4th ASSEMBLE call to apply for access to marine infrastructure is now open:

- Deadline Feb 15, 2011 - For on-site access projects taking place between June and November 2011 (remote access can be applied for all year around). - Support cover travel and up to an overall total of 60 person days of accommodation and infrastructure usage for up to 3 users. For IUI (Eilat) such support is limited to 1 or 2 users for up to 30 person days per user. - Only European user groups (=user group leader and majority of the users working in Member States or Associated States) can apply and only to ASSEMBLE sites outside their own country. - Applicants working outside Europe (EU Member states and Associated states) can be funded if not being the main applicant and if in mi-

nority (less than 50%) of the user group applying for the access project. - New users and users from outside the ASSEMBLE network are prioritized as are users moving from a non-marine area into the marine field. - Projects cannot be led by scientists working at the infrastructure site applied to and cannot not be part of local projects. Proposed projects that to some extent include local scientists are welcome but will have lower priority than independent projects. - Projects using local ecosystems, species or models will have a higher priority than projects bringing their own (marine only) samples.

List of marine stations members of the ASSEMBLE infrastructure:

- Sven Lovén Centre for Marine Sciences, Kristineberg & Tjärnö, Sweden - Dunstaffnage Marine Laboratory, Oban, UK - Station Biologique de Roscoff, France - Observatoire Océanologique de Banyuls, France - Stazione Zoologica Anton Dohrn, Naples, Italy - The Algarve Marine Sciences Centre, Faro, Portugal - Interuniversity Institute for Marine Sciences in Eilat, Israel - Estación Costera de Investigaciones Marinas, Las Cruces, Chile

For more information and to apply: www.assemblemarine.org.

Please forward to interested colleagues and sorry for any cross-posting.

Best regards, Ulrika

Ulrika Hjelm, PhD Research Officer

University of Gothenburg The Sven Lovén Centrefor-Marine Sciences - Kristineberg S-450 34 Fiskebäckskil Sweden Phone: ++46 (0) 523 18507 (new office!) Fax: ++46 (0) 523 18502 E-mail: ulrika.hjelm@loven.gu.se

ASSEMBLE - access to marine infrastructure www.assemblemarine.org

Sylvain FAUGERON <sfaugeron@bio.puc.cl>

Non-reversible models

Hello,

I was wondering what kind of software are there available to run non-reversible models for phylogenetic inference. MrBayes doesn't seem to implement a nst yet and BayesPhylogenies will only allow for one sequence as the outgroup.

I'll forward the answers to the list.

thanks,

Jonathan

jonathan.hughes.10@live.com

Promoting Local Evolution Societies

The Society for the Study of Evolution (SSE) and The European Society of Evolutionary Biology (ESEB) announce a joint venture to facilitate the global growth of evolution as a discipline. In order to encourage the establishment and growth of local societies with a clear interest in evolutionary biology, SSE and ESEB will offer free access to our journals, Evolution and Journal of Evolutionary Biology, respectively, to individual (and not institutional) members of regional or national biology, evolution, genetics, and ecology societies in developing countries or regions. To be eligible for the free access, such a local society must already have or demonstrate the ability to develop clear mission statements, effective organizational structures, regular meetings, a society website, and member dues, and verifiable active membership lists. This is a limited time offer which will be granted and extended on a case by case basis. We define developing regions as outside North America, Europe, Australia, New Zealand, Singapore, Japan and parts of the Middle East. SSE and ESEB are also open to suggestions for other initiatives that will help grow evolution societies in developing regions.

For further information please contact: Charles B. Fenster <cfenster@umd.edu>, Executive Vice President SSE Tadeusz J. Kawecki <tadeusz.kawecki@unil.ch>, Secretary ESEB

Charles B. Fenster Professor Executive Vice President, Society for the Study of Evolution BEES Graduate Director Department of Biology BIOLOGY/Psychology Bldg. Room 3233

University of Maryland College Park, Maryland 20742 USA phone: (Lab Phone): 301 405 1640 (I rarely check messages) Best way to reach me: email or cell phone fax: 301 314 9358

http://www.life.umd.edu/biology/fensterlab/ Let Nature be your teacher. She has a world of ready wealth, Our minds and hearts to bless – Spontaneous wisdom breathed by health, Truth breathed by chearfulness.

Wordsworth and Coleridge, 1798

"Charles B. Fenster" <cfenster@umd.edu>

PuertoRico RhesusMonkeyVolunteer

Rhesus monkey research on Cayo Santiago, Puerto Rico.

We are looking for a volunteer to assist on a project examining kin recognition on a semi free-ranging rhesus macaque population on Cayo Santiago, Puerto Rico (USA). The project is being undertaken in the Lab of Prof. Dr. Anja Widdig and Dr. Dana Pfefferle (Leipzig University & Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany; see http://www.eva.mpg.de/pks/index.html) The volunteer will work alongside Dr. Pfefferle (http://www.eva.mpg.de/pks/staff/pfefferle/).

The successful applicant will be expected to work on Cayo Santiago for 5-6 days a week, and may also be required to undertake data entry and/or processing in the later afternoon and early evenings. On Cayo Santiago, the primary task will be to assist carrying out playback experiments as well as to help recording rhesus macaque vocalizations. In order to do so, appropriate training will be provided. D. Pfefferle is also happy to explain analyses procedures that ultimately will take place on collected data. This position is ideal for graduate students or recent graduates looking to gain experience in fieldwork and data collection.

We prefer applicants that stay for the entire period of 6 month. However, in the case of two very good applications (and only in this case!), a split into two times three months is possible. In your application please state the maximum time period you can stay.

Applicants should have a Bachelor in Biology, Ecology, Animal Behavior, Physical Anthropology, Primatology, or a related field. Previous field experiences (preferably in the tropics) and knowledge of Spanish is helpful, but not necessary. In general, carrying out playback experiments can be a protracted and patience challenging task, including many hours of waiting for the correct situation. Thus you must be able to maintain a positive attitude. Applicants also must be in good physical and mental condition; feel comfortable being far away from family and friends; be emotionally mature, energetic, and very patient; have an excellent eye for detail; dont be afraid of approaching monkeys (!); willing to work in a small team setting and follow instructions; be able to maintain a positive and humorous attitude towards challenging and tiring work. Although the work can be demanding and tiring, being close to habituated primates is very rewarding and a great experience.

The language in our team is English. The successful candidate must have medical insurance, a valid IACUC certificate (www.citiprogram.org) and will have to provide medical test in order to be allowed to work on Cayo Santiago (information will be provided after acceptance).

Support can be provided for housing (depending on sharing the house cost currently range between 185 and 350 US$) and visa if needed. Depending on whether you stay for a 3- or 6-month period, your experience and performance, support for your flight and transportation from and to the airport might also be provided. However volunteers have to cover the expenses for: medical insurance, medical tests required to work on Cayo Santiago, field clothes and personal expenses.

Term of Appointment: >From June 20th 2011 till December 20th 2011.

Application Deadline: Target application date is January 31st 2011, but open until a suitable candidate has been found.

Comments: To apply, candidates should email a brief cover letter outlining their interests, experience, and why they wish to undertake work on the project. They should attach a CV that includes at least contact details of two academic reference. If asked, it will be the responsibility of candidates that academic references are send to dpfefferle@gmail.com. Please only send email applications.

Contact Information: Dana Pfefferle danapfefferle@googlemail.com

Dana Pfefferle <danapfefferle@googlemail.com>

SAMOVA CrashesAfterInput

Hi

I have been trying to run a SAMOVA analysis (SAMOVA 1.0). The input files appear to be read OK and the log file even says that the program has made a successful run. However, at some point prior to the final output files being dumped, the SAMOVA window says the program has stopped responding.

I have installed the software across multiple machines, at various points in a directory, and also from the C:\ root. Both the *.arp and *.geo files are in the software directory.

I used my original software installation to run the demo files some months ago and generated output. The same input files now produce the same problem as my datafiles. I thought this may mean that the software has somehow been corrupted and re-downloaded the software to start from scratch.....but the result is the same.

If anyone has an hints I'd be very grateful to hear from you.

Best regards

Jill

Dr Jill Shephard Research Fellow - Population Genetics and Spatial Modelling Centre for Research and Conservation Royal Zoological Society of Antwerp Koningen Astridplein 26, 2018 Antwerp, Belgium

T +32 (0)3 202 45 51 E jill.shephard@kmda.org W http://www.zooresearch.be/?lang=3DEN Jill.Shephard@kmda.org

Software DAMBE winclade function

Dear All,

My program DAMBE has a WinClade function in its newest version. What it does is to display a topology so that you can drag nodes to each other and DAMBE will display, in a corner of the window, the tree length (i.e., the minimum number of state changes along the tree based on the MP criterion), the consistency index, the retention index and the rescaled consistency index.

DAMBE is free from my web site.

If you have already used DAMBE and want to install the new version, please remove the old version and check if the DllWithDialog.DLL file is still in the C:\windows\system32 directory. If yes, remove it manually before installing the new version.

Usage: start DAMBE, read in a sequence file, click 'Phylogenetics|WinClade', drag nodes to each other, and click the 'Evaluate' button, followed by more dragging and more clicking.

Best Xuhua

Xuhua Xia, Professor of Biology Biology Department University of Ottawa Rm 278 Gendron 30 Marie Curie, Ottawa, Ontario Canada K1N 6N5 Tel: (613) 562-5800 ext 6886 URL: http://dambe.bio.uottawa.ca

Xuhua Xia <Xuhua.Xia@uottawa.ca>

Software jMHC version 1

Dear colleagues,

We are happy to announce the public release of jMHC 1.0

jMHC is user friendly graphical interface software for genotyping of multilocus gene families using next generation amplicon sequencing.

First release includes:

1. importing of complete target sequences together with corresponding tags. 2. generating from the imported data a table in tab-delimited text format, which contains all (or a subset of) sequence variants and the number of reads by which a given variant was represented in a given amplicon 3. generating FASTA files containing all sequence variants (or a subset of them) ordered according to the number of reads in the amplicon. User can perform alignment of sequence variants in each file with MUSCLE.

jMHC is written in Java and runs on Microsoft Windows, Linux OS and Mac OS. Current version: binaries, source code, sample data and user manual are available at http://code.google.com/p/jmhc/. Program is published under the terms of the GNU General Public License v3.

Best wishes,

Michal Stuglik

– Michal Stuglik, PhD student Institute of Environmental Sciences Molecular and Behavioral Ecology Group Jagiellonian University Gronostajowa 7 30-387 Krakow, Poland www: http://www.eko.uj.edu.pl/-molecol/staff/MS.html michal.stuglik@uj.edu.pl

michal.stuglik@gmail.com

Software Stacks

I am pleased to introduce the Stacks analysis pipeline.

Stacks is a software pipeline for building loci out of a set of short-read sequenced samples. Stacks was developed for the purpose of building genetic maps from Illumina sequence data, but can also be readily applied to population studies, SNP identification for genotyping arrays, and phylogeography.

http://creskolab.uoregon.edu/stacks/ Stacks specializes in tracking a set of alleles within a population. These alleles are defined by SNPs which are called using a maximum likelihood framework.

Stacks is programmed in C++ (with helper programs in Perl), is parallelized (and fast!), and can handle small and large data sets into the hundreds of individuals.

The software pipeline uses a MySQL database backend to provide a web-based user interface facilitating viewing of the data and supporting its annotation and manual correction. The backend also supports the addition of ESTs, paired-end minicontigs, or other sequence information that is associated with the generated markers by programs such as BLAST or BLAT.

Stacks is free software, released under the GNU GPL license. Lots more information can be found on the website:

http://creskolab.uoregon.edu/stacks/ I am happy to answer any questions you may have about the program: jcatchen@uoregon.edu.

Cheers,

julian

Julian M Catchen, Ph.D. Center for Ecology and Evolutionary Biology University of Oregon

http://www.uoregon.edu/ ~ jcatchen/
jcatchen@uoregon.edu

SouthAfrica VolunteerBirdEvolution

Volunteer Field Position in Bird Biology

We are seeking enthusiastic, motivated, and detail-oriented field assistants to help on a study on the neuroendocrine basis of cooperative breeding in the sociable weaver (Philetairus socius) in the Northern Cape of South Africa. Sociable weavers live in colonies ranging from 2 to 500 individuals and their most notable feature is the huge communal nest they construct. These are the largest nests in trees found in nature. In this nest there are separate chambers where familiar groups of birds roost and breed. The broods can be attended by individuals, besides the parents, that help in providing care for the offspring - cooperative breeding. Assistants must be available from February 1st through April 1st, 2011(some flexibility may be possible). The study site is situated on a farm about 3 hours from Kimberley and Upington, near Prieska. We will be living in the farm.

The assistants' work will involve nest inspection, behavioral observations, help in carrying out field experiments, help with catching and processing of birds, and data entry. We will work 5-6 days a week in the field. Comfort in the outdoors is essential, due to the remote nature of the field site and the extreme temperatures. Qualifications: (1) Advanced undergraduate in biology, ecology, veterinary science, or related field. Bachelor's or master's preferred.

(2) Previous field research experience. Knowledge in observing & handling birds preferable.(3) Ability to work independently and in small teams with a good attitude. (4) Attention to detail and organization. Ability to carry out repetitive work with quality and consistency.

(4) Valid driver's license.

(5) Fluency in English. We will cover expenses associated with food, accommodation and travel within South Africa. While, additional subsidy may be available, assistants will be responsible for travel costs to Cape Town or Kimberley. Interested applicants should send a CV, a 1-page maximum letter of interest and the name of two references to: pclopes@berkeley.edu. I am happy to provide potential candidates with more details on the project. Deadline for applications is: January 10, 2011.

patricy@hotmail.com

Speciation travel grants

Dear colleagues,

The European Research Networking Programme "Frontiers of Speciation Research", supported by 18 National Funding Organizations in member countries of the European Science Foundation, is inviting applications for travel grants intended to foster collaborations between European researchers working on topics related to the Programme.

Support is available for short visits (up to 2 weeks) and exchange grants (up to 3 months), with preference given to junior researchers at a graduate or postdoctoral level. Applicants will want to keep in mind that, owing to the difference in costs, applications for short visits are more likely to be successful than applications for exchange grants.

Applications are reviewed quarterly after a submission deadline of 24:00 CET on 15 March, 15 June, 15 September, and 15 December. About 4-6 weeks after each deadline, the ESF will inform applicants about the outcome of evaluations.

Further information and instructions on how to apply are available at www.iiasa.ac.at/Research/EEP/-FroSpects/Travel_Grants.html .

For general information about the FroSpects Research Networking Programme, please see www.iiasa.ac.at/-Research/EEP/FroSpects .

With best wishes,

Ãke Brännström & Ulf Dieckmann, on behalf of the FroSpects Steering Committee

Ulf Dieckmann Program Leader Evolution and Ecology Program International Institute for Applied Systems Analysis A-2361 Laxenburg Austria

Email dieckmann@iiasa.ac.at Phone +43 2236 807 386 Phone secretary +43 2236 807 231 Fax +43 2236 807 466 or +43 2236 71313 Web http://-www.iiasa.ac.at/Research/EEP Online reprints http:/-/www.iiasa.ac.at/~dieckman FishACE Network http:/-/www.iiasa.ac.at/Research/EEP/FishACE FinE Network http://www.iiasa.ac.at/Research/EEP/FinE

dieckmann@iiasa.ac.at

SSE DobzhanskyFisherAwards

SSE Dobzhansky and Fisher Awards

The Society for the Study of Evolution solicits applications/nominations for the Dobzhansky and Fisher Awards. The Fisher Award deadline for an excellent student paper in Evolution is January 31, 2011. The Dobzhansky Award deadline for an outstanding early-career evolutionary biologist is February 15, 2011. See www.evolutionsociety.org for details.

Judy Stone <jstone@colby.edu>

Sumatran Bird mobbing behaviour

Hi all,

I am writing to seek some help with regard to a research project I am doing with forest understory birds in lowland Sumatra.

My study involves using playback to try to elicit the "mobbing" response of understory birds, and I am looking for an appropriate stimulus (aka playback file) to serve that purpose. Unfortunately for lowland Sumatra, we don't have such effective and reliable tools as the Collared Owlet call in higher elevations. Still, I am wondering if there might be some way around to excite birds here - hence this email here, trying to seek wider help from birders in the region.

I have two main questions here:

1) Is there a decent stimulus for the lowland forest in eliciting mobbing from small-bodied forest birds, that can work similarly to the Collared Owlet call in the montane areas? Two very experienced birders already told me that the answer is probably no, but I just wanted to see if other people might have a different answer, or could suggest some less effective but still workable stimuli.

2) If it isn't possible to elicit mobbing using predator/owl calls in the lowland, is it possible to use the alarm calls of some of the prey species instead? Here, I am primarily thinking about some of the key information givers in the community, such as babblers and/or bulbuls. My experience in some other temperate places with Paridae suggests that alarm calls from some of the vocal parid species indeed are very strong stimuli for eliciting the mobbing response from other small birds - so I'm wondering if this would be similarly appliable here. I would really appreciate it if fellow birders with such experiences could share some info with me, and in particular, if you happen to have files of the alarm calls of these birds (or basically any species that share predators with these small-bodied birds), I would greatly appreciate it if you could kindly share the call file with me.

Thanks very much for your attention and assistance.

Sincerely, Fangyuan Hua

Ph.D candidate Department of Wildlife Ecology & Conservation University of Florida

"Liu, Yang (IEE)" <yang.liu@iee.unibe.ch>

The Diversity Project

Dear Colleagues,

For the seventh consecutive year, we will be running The Diversity Project, an NSF funded research opportunity designed to increase participation of underrepresented undergraduate students in the marine sciences. In collaboration between UCLA and Old Dominion University, students will integrate hands-on field research in the Coral Triangle with cutting edge genetic research. The project will explore the origins marine biodiversity in the Coral Triangle in an effort to improve conservation of this remarkable ecosystems. Students are fully funded for both living and travel expenses. This year our destination is Bali, Indonesia. Visit http://www.eeb.ucla.edu/Faculty/Barber/-Intro.htm for more information and on-line application.

This research opportunity has been a remarkable personal and professional experience for the students who have participated. Please encourage any students whom you believe would benefit from such an experience to apply. Applications are due January 14, 2011. For further information, please contact Dr. Paul Barber (paulbarber@ucla.edu). We look forward to hearing from you.

Sincerely, Paul Barber

Dr. Paul H. Barber Boston University Boston University Marine Program 5 Cummington St. Boston, MA 02215 617-358-4589 office 617-358-4590 lab 617-353-6340 FAX pbarber@bu.edu http://people.bu.edu/-pbarber/ Paul Barber <paulbarber@ucla.edu>

UBristol VolunteerFieldAssist DrosophilaAdaptation

Field assistant position available to study limits to adaptation in Australian rainforest Drosophila

We are looking for a motivated, hardworking volunteer to help conduct fieldwork in northern Queensland as part of a project examining limits to adaptation in rainforest Drosophila. This project is based at the University of Bristol, UK (PI Dr Jon Bridle, postdoc Dr Eleanor O’Brien), and involves collaboration with researchers at the University of Queensland (Professor Mark Blows) and the University of Melbourne (Professor Ary Hoffmann). This position represents an excellent opportunity to be involved in exciting research in evolutionary biology, and would suit someone seeking direct experience of a field-based project in this area.

The role of the volunteer will be to assist with collection of Drosophila at several locations in the rainforest in northern Queensland, sort field-collected specimens, maintain live stocks and perform other duties as required. Training will be provided in Drosophila identification and maintenance, although previous experience would definitely be helpful.

Essential requirements: (1) BSc in evolutionary biology, genetics, ecology or a related discipline. (2) Willingness to spend long days working in rainforest in hot, humid conditions. (3) Ability to work carefully and meticulously, with close attention to detail. (4) Enthusiasm and the ability to work closely as part of a team. (5) A full driving licence.

Previous fieldwork experience and 4 wheel-driving experience would also be an advantage.

The volunteer must be able to spend up to 8 weeks in the field from mid-March - May 2011. Full living expenses (meals and accommodation) will be paid during this period. We are also able to make a contribution of up to 400 GBP (approx. $AU630) towards the costs of travel to the field site.

Applications must be received by the 31st January 2011, and should include a cover letter and CV, including the names of two referees.

To request further information about this position, or to apply, please contact Dr Eleanor O’Brien (eleanor.obrien@bristol.ac.uk).

– Dr. Eleanor O'Brien Postdoctoral Researcher School of Biological Sciences University of Bristol

Ph: +44 (0)117 928 7470

Eleanor O'Brien <Eleanor.OBrien@bristol.ac.uk>

PostDocs

AuburnU MeiofaunaGenomicAnalyses

Funds have been recommended for a postdoctoral position to study meiofaunal diversity in the Gulf of Mexico. These funds are part of the Gulf Research Initiative in response to the Deepwater Horizon Spill.

A postdoctoral researcher is needed to help with genomic analyses of meiofaunal populations. This work will include field collection, next-generation sequencing and bioinformatic skills. Choice of candidates will emphasize bioinformatic and genomic skills. The postdoc position will be initially for 12 months and extended as funds permit. This work interfaces with additional collaborative efforts with other researchers regionally and nationally.

Those interested should contact Dr. Ken Halanych - Auburn University ken@auburn.edu http://gump.auburn.edu/halanych/lab/ Note: Gulf Research Initiative funds originated with BP oil. This project is not part of the National Resource Damage Assessment (NRDA). There are no restrictions on the publications of data or results in this project.

Kenneth M. Halanych Alumni Professor Marine Biology Coordinator Biological Sciences Department Life Sciences Bld. 101 Auburn University Auburn, AL 36849

http://gump.auburn.edu/halanych/lab/index.html
Phone: (334)-844-3222 Biology Fax (334)-844-1645
e-mail: ken@auburn.edu

ken@auburn.edu

ColoradoState DiseaseModeling

The Webb Lab at Colorado State University was recently funded to develop data-driven models of disease spread in the US cattle population, most likely using a contact network approach. The goal of the project is to both predict spread during disease outbreaks for the

US and to test containment and mitigation strategies. While these types of models have been successful for understanding and managing disease outbreaks in other countries, they have not previously been developed for the US due to data limitations. We are developing a new database that should allow us to overcome these previous limitations. Qualified individuals interested in working on this project should contact Colleen Webb (ctwebb@lamar.colostate.edu) for more information.

Colleen.Webb@ColoState.EDU

CornellU CanineEvolution

Postdoctoral position in canine evolutionary genomics at Cornell University

Seeking qualified applicants for a post-doctoral position with Nate Sutter in the College of Veterinary Medicine at Cornell University (Ithaca, New York). The research focuses on the evolution of the domestic dog genome via frequent SINE retrotranspositions, the dog's rapid acquisition of extreme phenotypic diversity and the genetics of body size. We are exploring the pattern of retrotransposon insertions in the dog genome and relating those insertion mutations to traits. While humans have few segregating retrotransposons (˜1200) the domestic dog has many (>>10,000). We have developed libraries highly enriched for SINE flanks that we solexa sequence and align to the dog genome. Candidates who wish to combine computational and bioinformatic approaches with experimental biology are highly encouraged to apply. The ideal candidate will hold a Ph.D. and have a record of productive research in molecular genetics, statistical genetics, computational biology or?a related field. Programming and database experience (perl, java, SQL, etc.) is desirable. Cornell University has an outstanding genetics/genomics community including the Cornell Center for Comparative and Population Genomics (http://3cpg.cornell.edu) and the Center for Vertebrate Genomics. The College of Veterinary Medicine is a highly stimulating research environment that features expert veterinary specialists and a busy vet hospital, and with a major new commitment to canine genomics backed by a $10 million dollar gift (http://www.news.cornell.edu/stories/Sept10/-VetCanineGift.html). Ithaca is a small town situated in the heart of the "finger lakes" wine and tourism region of upstate New York. There are many waterfalls and hiking trails within easy driving distances.??Interested applicants should submit an electronic version of their CV, the names and contact information for three references and a brief cover letter describing their qualifications and relevant experience to nbs39@cornell.edu. The position is available immediately.

Dr. Nate Sutter Assistant Professor of Medical Genetics, College of Veterinary Medicine Cornell Center for Comparative and Population Genomics Cornell University, Ithaca, NY 14853

Charles F Aquadro <cfa1@cornell.edu>

Duesseldorf PlantEvolutionaryGenetics

The research group of Population and Quantitative Genetics at Heinrich-Heine Universität in Düsseldorf, Germany has an open position for a

SENIOR POSTDOC/GROUP LEADER

Our group focuses on population genetics of plants and coevolution between plants and microbes. We are looking for an enthusiastic, dedicated scientist who works in one of the following areas:

- Coevolution between plants and microbes

- Theoretical population genetics

- Molecular evolution in plants

- Plant genomics

Candidates with a PhD degree in evolutionary biology, quantitative genetics, plant molecular biology or bioinformatics and a strong interest in genomic and/or quantitative approaches are encouraged to apply. You will have access to state-of-the-art laboratory facilities and the opportunity to develop your own independent line of research. This position involves some teaching in the area of evolutionary biology and population genetics.

The initial appointment is for three years with the possibility of extension for another three years. Salary will be according to the German government salary scale and depends on previous experience, age and marital status. For more information about the group, please check out the lab website: http://evol.bio.lmu.de/-_rose/ The closing date for applications is February 1, 2011, or when the position is filled. Applicants should send a single PDF file containing a statement of interest and previous research and teaching experience, curriculum vitae, and contact information for at least two referees to: Laura Rose (rose@bio.lmu.de).

Prof. Dr. Laura Rose

current contact information:

Section Evolutionary Biology Phone: 49 89 2180 74 150 University of Munich - LMU Fax: 49 89 2180 74 104 Grosshaderner Str. 2 Email: rose@bio.lmu.de 82152 Planegg Web: http://evol.bio.lmu.de/_rose Beginning in Spring 2011:

Heinrich-Heine-Universität Universitätsstraße 1 40225 Düsseldorf Germany

rose@zi.biologie.uni-muenchen.de

ETH Switzerland BrassicaAdaptation

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. It employs approximately 500 people working on the sustainable use and protection of the landscapes and habitats and a responsible approach to handling natural hazards. The Research Group Ecological Genetics studies population processes using molecular markers. Within the project Sinergia-AVE, we investigate adaptive variation in plant species and offer a

POSTDOC in Ecological Genetics

You will analyze genomic variation of potential adaptive significance in several Brassicaceae species, carry out environmental association analyses and publish your results in international scientific journals. In addition, you support the team in developing future research in the field.

You should have a PhD in Biology or Environmental Sciences, strong background in the analysis of population genetic data using dedicated software and GIS. You are a team player and have a determined, self-dependent, exact and structured mode of working.

Please send your complete application, using reference number 657 to Mrs. Monika Lips, Human Resources WSL, Zuercherstrasse 111, CH-8903 Birmensdorf. Dr. Felix Gugerli, Tel. +41-(0)44 739 25 90, or Dr. Rolf Holderegger, Tel. +41-(0)44 739 25 27 will be happy to answer any questions or offer further information.

Felix Gugerli Kuenzle, PhD

Biologist / Group leader

Swiss Federal Research Institute WSL

Research Unit Ecological Genetics & Evolution

Zuercherstrasse 111

CH-8903 Birmensdorf

SWITZERLAND

phone: +41-(0)44-739-2590

fax: +41-(0)44-739-2215

http://www.wsl.ch/personal_homepages/gugerli felix.gugerli@wsl.ch

FlindersU AdaptationGenomics

POSTDOC POSITION:

âGenomics of Adaptation to Environmental Change of an Ecologically Important Non-Model Aquatic Organismâ

We are looking for a bright candidate for one two-year Postdoc position associated with ARC Discovery funded project DP110101207.

The successful applicant will have a strong interest in population and evolutionary genomics/genetics and natural history. She/he will join an international team to study adaptation to environmental change using next-generation ecological genomic approaches. The position will be supervised by Assoc Prof Luciano Beheregaray â Head of the Molecular Ecology Lab (www.bio.mq.edu.au/-molecularecology/index.htm) now based at Flinders University (Adelaide) and by Prof Louis Bernatchez â Director of the Canadian Research Chair in Genomics and Conservation of Aquatic Resources (www2.bio.ulaval.ca/louisbernatchez/presentation.htm) at UniversitÃ© Laval (Quebec). The team also includes scientists from United States and other Australian universities with experience in field and lab based research on natural selection, behavioural ecology and biogeography. The position will be based at Flinders and includes visits to the Bernatchez Lab at Laval. The project will offer opportunities to work with novel genomic technologies, high throughput genotyping, gene expression assays, and to conduct field work in eastern Australia.

Project summary Understanding whether natural populations will be able to adapt to rapid environmental change is a major research priority in the 21st century. We will establish a program in ecological ge-

nomics to understand population adaptations and responses to environmental change in an ecologically important group of aquatic organisms. Powerful tools will be used to assess functional genomic variation in wild populations and under modified laboratory conditions. This will enable us to pinpoint factors shaping local adaptation over a large section of eastern Australia and to assess the potential of populations to respond to rapid environmental change. The ingenuity to make this program successful is based on unique features of our study system (e.g. replicated populations of two well-characterized rainbowfish phenotypes shaped by natural selection) and the connection with an international team with leadership in synthesizing next-generation sequencing data.

Application guidelines The ideal candidate will have a PhD and a strong track record in the fields of population and evolutionary genomics/genetics and bioinformatics. The postdoc will have input in fieldwork and will be responsible for collection and analysis of genomic data, manuscript writing and co-supervision of a PhD student. Starting date is April 2011 (this can be negotiated) and the annual full-time salary is AUD$81,846 (includes 28% on costs). Applicants should e-mail a letter (see below for address) summarizing research interests and experience along with a CV including the names, addresses and e-mails of three referees.

Applications should be sent by email to: Associate Professor Luciano Beheregaray Email: luciano.beheregaray@flinders.edu.au

School of Biological Sciences Flinders University SA 5001 Adelaide Australia Telephone: +61 08 8201 5243

Review of applications will continue until a suitable candidate is identified.

Luciano Beheregaray Associate Professor in Biodiversity School of Biological Sciences Flinders University GPO Box 2100 Adelaide SA 5001, Australia Phone:61(8)82015243; Fax:61(8)82013015 http://-/www.bio.mq.edu.au/molecularecology/ Luciano Beheregaray <luciano.beheregaray@flinders.edu.au>

ImperialCollege London Bioinformatics

Applications are invited for a Research Associate in Bioinformatics who will be based in the Department of Infectious Disease Epidemiology. The successful applicant will also become a member of the MRC Centre for Outbreak Analysis and Modelling at the St. Mary's campus, Paddington. The post holder will join a small, dynamic and well-funded research group currently comprising Dr Francois Balloux, Dr Thibaut Jombart and Dr Lucy Weinert. This team is running in-house projects and is involved in a number of exciting international collaborations including some they are heading themselves.

The post holder will be encouraged to get involved in a variety of collaborations and to develop his/her own ideas. In addition, he/she will have particular responsibility for two major projects that are at a very early stage. The first is part of a long-term effort aiming at understanding the relative role of past demography and natural selection in shaping the human genome. More specifically, he/she will be exploiting a dataset of about 3,000 de novo sequenced complete human mitochondrial genomes from individuals, which will also be typed at autosomal SNPs. This dataset will allow quantifying the extent to which past climate has shaped worldwide human mitochondrial sequence variation.

The second main duty will be to help with the assembly and exploitation of an exceptional dataset of 900 Methicilin Resistant Staphylococcus aureus (MRSA) from a single outbreak, for which exceptionally detailed epidemiological information is available. Complete genome sequences will be generated for all these isolates and the post holder will be involved in the reconstruction of the host-to-host transmission dynamics using both the genomic and epidemiological information.

Ideal candidates would have good quantitative skills and a strong background in bioinformatics. Additional expertise and interest in molecular genetics, genetic epidemiology, population genetics or related fields would be a plus. Applicants should be motivated, well organised and able to work effectively as part of a team.

This is a full time post for a fixed-term until 31 January 2013 in the first instance. Further extensions should pose no problem. Starting salary will depend on experience but will be somewhere around £34k-37k.

For informal enquiries please contact Dr Francois Balloux, f.balloux@imperial.ac.uk

Our preferred method of application is online via our website http://www3.imperial.ac.uk/employment Please complete and upload an application form as directed quoting reference number: SM214-10.

Closing date: 10th January 2011.

Dr François Balloux MRC Centre for Outbreak

Analysis and Modelling, Department of Infectious Disease Epidemiology, Faculty of Medicine, Imperial College, St Mary's Campus, Norfolk Place, London W2 1PG, United Kingdom Tel: 0044 (0)20 7594 3260 E-mail: fballoux@imperial.ac.uk Web: http://www1.imperial.ac.uk/medicine/people/f.balloux/
"Balloux, Francois D" <f.balloux@imperial.ac.uk>

LouvainU PlantPhylogeography

Biodiversity Research Centre, Earth and Life Institute Louvain University (UCL), Louvain-la-Neuve, Belgium

Plant evolutionary ecology, Renate A. Wesselingh http://www.uclouvain.be/en-139576.html I am looking for a motivated postdoctoral researcher to apply for a fellowship to work in my team on the origin(s) of a European plant that is an invasive species in North America, and on the phylogenetic relationships within a genus of annual hemiparasitic plants. Two possible sources of funding are available, for which the candidate will write applications (deadlines mid-February 2011). If one of the applications is successful, the starting date would be October 2011. Funding would be for a maximum of 2 or 3 years, the candidate should not have more than 5 years of experience after obtaining his/her PhD, and not have stayed in Belgium for more than 24 months out of the last three years. An excellent publication record is a prerequisite to stand a chance of obtaining a fellowship, since competition is quite strong.

Louvain-la-Neuve is a small university town 30 km southeast of Brussels, in the French-speaking part of the country. My lab is part of the Biodiversity Research Centre (http://www.uclouvain.be/en-bdiv.html), a bio-diverse collection of researchers active in ecology and evolution, which organises weekly seminars to promote interaction between the different research groups. The working language is English, but some basic knowledge of French would be useful in daily life, and the university offers courses for non-French speakers.

Potential candidates are invited to send a full CV, contact information for two or more referees, and a letter stating their motivation and a brief outline of how they would tackle the two proposed research subjects, to renate.wesselingh@uclouvain.be. The deadline for submission is January 15, 2011. I will then select one person, with whom I will collaborate to write and submit the fellowship applications.

Renate A. Wesselingh Biodiversity Research Centre Earth & Life Institute Louvain University (UCL) Croix du Sud 4-5 B-1348 Louvain-la-Neuve Belgium Tel.: +32 10 473447 Fax: +32 10 473490 e-mail: renate.wesselingh@uclouvain.be

MichiganStateU others 5 PlantAdaptation

Postdoctoral Positions for the Study of Plant Adaptation Michigan State University, Colorado State University, University of Colorado, Uppsala University

Five postdoctoral positions are available to conduct collaborative research on the ecological, physiological and genetic mechanisms of adaptation in the model plant Arabidopsis thaliana. These positions are associated with a five-year multi-investigator project funded by NSF and the Swedish Research Council to identify the traits, genes, and causal networks involved in adaptation to natural environments. Team members include Doug Schemske (Michigan State University; evolutionary ecology, adaptation), Mike Thomashow (Michigan State University; gene regulatory networks, molecular genetic analysis of cold acclimation, freezing tolerance), John McKay (Colorado State University; adaptation, drought tolerance, population genetics), Barbara Demmig-Adams and William Adams (University of Colorado; ecophysiology of photosynthesis and photoprotection; leaf anatomy/ultrastructure) and Jon Agren (Uppsala University; adaptation, plant evolutionary ecology).

Our research addresses the following questions: How do Arabidopsis thaliana from contrasting natural environments differ functionally and structurally? What are the Quantitative Trait Loci (QTL) and genes underlying key traits involved in adaptation? How does the substitution of adaptive QTL influence the phenotype, gene expression/regulation and plant fitness? Are there adaptive tradeoffs between traits and/or pleiotropy between adaptive QTL?

Preference will be given to candidates with a strong background in evolution and/or physiology, and training in one or more of the following areas: molecular biology, molecular genetics, genomics, evolutionary ecology, and ecophysiology. Activities of the different labs will include studies of functional and structural aspects of plant growth and photosynthesis under different environmental conditions, freezing and drought tolerance,

QTL mapping, gene expression studies, construction of Near Isogenic Lines, gene discovery, functional genetic screens, and fieldwork at our European experimental gardens. In addition, each position requires data analysis, the preparation of manuscripts for publication and participation in workshops on career development. The details of each position vary depending on the lab and there will be considerable opportunity for individuals to develop new research directions.

Applicants should send a Curriculum Vitae, a letter stating specific research interests, a summary of research accomplishments and future research objectives, and the names and contact information for three professional references as a single pdf file to John McKay (jkmckay@colostate.edu). Include in the email subject line plant adaptation postdoc. Candidates who wish to be considered for the position with Jon Agren at Uppsala University should also send these materials to jon.agren@ebc.uu.se. The applications will be reviewed by the research team. A Ph.D. is required. Review of applications will begin January 10 and continue until suitable candidates are identified. The start date is negotiable. The participating universities are Affirmative Action / Equal Opportunity Employers.

Douglas W. Schemske Department of Plant Biology 166 Plant Biology Michigan State University East Lansing, MI 48824-1312

and

W. K. Kellogg Biological Station 3700 E. Gull Lake Dr. Hickory Corners, MI 49060-9516 http://-www.plantbiology.msu.edu/faculty/faculty-research/-doug-schemske/ contact information (East Lansing campus): office phone: 517-432-5289 FAX: 517-353-1926 email: schem@msu.edu

contact information (KBS): office phone: 269-671-2264 FAX: 269-671-2104

Douglas Schemske <schem@msu.edu>

Montpellier PopulationGenetics

Dear Evoldir members,

A postdoctoral fellowship in theoretical population genetics will be available at the CBGP laboratory (Centre de Biologie et de Gestion des Populations < http://www1.montpellier.inra.fr/CBGP/ > , Montpellier, France) to develop new methods for demographic inference under various demographic models. We are especially interested in investigating inference of divergence times, migration rates and past demographic fluctuations from genetic data. The applicant will develop inferential methods that can jointly consider combination of genetic markers with different mutation rates and processes, such as combination of microsatellites, mitochondrial and nuclear sequences as well as SNPs.

The successful applicant will focus on coalescent algorithms for maximum likelihood inference, based on the importance sampling developments of R. C. Griffiths and collaborators. The main phase of the project will be to develop algorithms for sequence and SNP data analyses into an existing software for coalescent-based genetic data analyses (the Migraine software < http://-kimura.univ-montp2.fr/%7Erousset/Migraine.html >).

Experience with C/C++ programming, theoretical population genetics and/or mathematics/statistics on stochastic processes, are highly desirable. Evolutionary biology knowledge is a plus but is not necessary. The successful applicant will be based at the CBGP, in Montpellier. Starting date will be in 2011 but is quite flexible. The CBGP laboratory is part of a very large community of research on evolution and ecology in Montpellier. The city of Montpellier is a vibrant student town with beautiful surroundings. Gross salary will be around 2 500 per month, depending on experience, plus social security, computing resources, research expenses and travels.

Funding is already available for one year by the French National Research Agency (ANR). If I have named applicants (but not French) before the end of the year (2010), I am quite confident that renewal for one to two years can be funded by the INRA (French National Institute For Agronomical Research). Interested applicant are thus asked to quickly email a CV with brief statement of qualifications and interest in the project, as well as contact information for two references to Raphael LEBLOIS (raphael.leblois@supagro.inra.fr).

More details about the position:

The applicant will be involved in two already-funded large projects.

First, the EMILE project ("Inference Methods and Software for Evolutionary studies", http://-www1.montpellier.inra.fr/wikis/EMILE/index.php/-Accueil) aims to develop new population genetics inference methods and involves numerous populations geneticists and statisticians. For his research, the applicant will primarily interact with R. Leblois (CBGP), F. Rousset(University of Montpellier), J.-M. Cornuet (CBGP), R. Vitalis (CBGP), J.M. Marin

(University of Montpellier), C. Robert (Dauphine University, Paris).

Second, the IM-MODEL@CORAL.FISH project ("An isolation-migration model of the history of coral reef fish communities: theory and data") is a collaboration between a Raphael Leblois (INRA - CBGP, Montpellier), Serge Planes (University of Perpignan, France), Michel Veuille and Thierry Wirth (Museum National dHistoire Naturelle, Paris, France), on pacific coral reef fish community history. Applications of the new methods will be principally done on the coral fish data but will also be done on already published data sets. Regular meetings are organized by both projects, allowing the applicant to interact with both the empirical and theoretical sides of population genetics.

Raphael Leblois, raphael.leblois@supagro.inra.fr

Centre de Biologie et de Gestion ds Populations (CBGP), Institut National de Recherche Agronomique (INRA), Campus International de Baillarguet CS 30016, 34988 Montferrier-sur-Lez cedex France

Tel: +33 (0)4 99 62 33 31 Fax: +33 (0)4 99 62 33 45

Raphael Leblois <raphael.leblois@supagro.inra.fr>

Montpellier PopulationGenomics

A 24 months post-doctoral position, funded by the National Institute for Agronomical Research (INRA France) is available to analyze population genomics data in the model legume species Medicago truncatula. The position will be in the team DAVEM (Diversity and Adaptation of Mediterranean species) in Montpellier. The postdoctoral fellow will contribute to the ARCAD sub project ?Crop adaptation to climate changes? (funded by Agropolis Fundation, Montpellier), aiming at identifying the genetic and evolutionary processes involved in the adaptation of plant populations to heterogeneous environments. The main role of the postdoctoral fellow will be to explore genome-wide data on sequence polymorphism in a large set of individuals collected along climatic gradients, in order to identify the genetic bases of local adaptation to varying climate conditions. Analyses will be focussed on flowering time candidate genes. The research will be part of a collaborative project, involving our group and NSF project on high throughput re sequencing in Medicago truncatula (leader : N. Young, Univ. of Minnesota) that involves a large collection of plant material (ca. 192 individuals) from the French National Collection of Medicago truncatula managed in our laboratory. The successful candidate will work in collaboration with both biologists (population and quantitative geneticists) and the BioInformatic group of the AGAP unit (Manuel Ruiz?s Team).

Conditions for eligibility: - The candidate should either be a non-French citizen or have a double nationality. - Applicants must have completed their PhD before starting the position. - An experience in population genomics using high throughput sequence data is required, as well as good programming skills. - Familiarity with bio informatics will be appreciated

Working conditions: - The start date is expected to be January 2011 - The net salary would be between 1800 and 2000 euros/month. - The contract will be established for two years. - The work will be based at the INRA unit of Melgueil near Montpellier (~15km) for the 6 first months and then on the SupAgro campus (Agronomic High school) in Montpellier for the remaining 18 months. The main contact at both locations will be Joëlle Ronfort.

How to apply: Send BEFORE December 17th the following information through e-mail to joelle.ronfort@supagro.inra.fr. - one detailed CV - pdfs of publications - a short statement of research interests and experience describing your qualifications for this position, - two letters of support sent separately

Please contact Joelle Ronfort (Joelle.Ronfort@supagro.inra.fr) for more details about the project, the lab, and/or Montpellier.

gayl@supagro.inra.fr

Montpellier TheoEvolBiol

2 POSTDOC POSITIONS IN MONTPELLIER: THEORETICAL EVOLUTIONARY BIOLOGY

2 two-year post-doctoral positions are available in the Evolutionary Ecology and Epidemiology (EEE) group based at the Centre d'Écologie Fonctionnelle et Évolutive (CEFE) in Montpellier, France. The starting date of these positions is fairly flexible, but must be between January 2011 and December 2011.

The EEE group hosts two permanent researchers (Sylvain Gandon and Sébastien Lion), two post-doctoral researchers (Thomas Berngruber and Pedro Vale), one

PhD student (François Blanquart) and one research assistant (François Gatchitch). We work on a combination of theoretical and experimental approaches.

Our current research interests include: (1) the evolution of bacteria-phage interactions, (2) the evolutionary ecology of avian malaria, (3) the evolution of spatially structured populations, and (4) the evolution of host-parasite interactions under high mutation rates.

We are looking for theoretical biologists to analyze the effects of high mutation rates (postdoc 1 with S. Gandon) and spatial structure (postdoc 2 with S. Lion) on evolutionary dynamics, in particular (but not only) in the context of host-parasite interactions. Both S. Gandon and S. Lion would be involved in the supervision of the two projects. In addition, Guillaume Martin (http://www.isem.cnrs.fr/-spip.php?article935&lang=3Den) will be involved in the co-supervision of the project on the effects high mutation rates.

We are particularly interested in the interface between these two questions. We would also be happy to discuss other biological questions and more personal research programs, and how they could be tied to the ongoing projects of the EEE group.

Applicants should have a PhD either in biology (particularly evolution or ecology), or in mathematics and/or physics. In any case, the applicant must display a strong motivation for biological and evolutionary questions. A track record in evolutionary ecology or epidemiology will be an advantage, and a strong background in mathematical modeling is required. An interest in the dialogue between theory and experiments will also be appreciated. Knowledge of the French language is not required.

If you are interested in any of these positions, please email a CV, a brief statement of research interests and the contact information of two references to both S. Gandon and S. Lion before March 1st 2011.

Contact:

S. Gandon (Sylvain <dot> last_name <at> cefe.cnrs.fr)

http://www.cefe.cnrs.fr/esp/en/sylvain/sylvain.htm
S. Lion (Sebastien <dot> last_name <at> cefe.cnrs.fr)

http://seblion.lautre.net

Sylvain GANDON CEFE - UMR 5175 1919 route de Mende F-34293 Montpellier cedex 5

Tel : 33 4 67 61 34 23 Fax: 33 4 67 41 21 38 email: sylvain.gandon@cefe.cnrs.fr www: http://-www.cefe.cnrs.fr/esp/en/sylvain/sylvain.htm

Sylvain.GANDON@cefe.cnrs.fr

NorthCarolinaStateU EvolutionaryBiol

Postdoc Position in Behavioral, Chemical, and Evolutionary Ecology

Date: Position available immediately (February 1, 2010)

Salary: Commensurate with training and experience

Term: 3 years

Position Description: This is an NSF-funded project. The Post-Doctoral Researcher will work with C. Schal (NCSU) and A. Groot (NCSU, Max Planck Institute for Chemical Ecology [MPICE] in Jena, Germany, and University of Amsterdam). In many moth species, male pheromone is important for species-recognition and female acceptance of males. However, despite the recognition that males invest disproportionately in the tissues that produce these pheromones, their roles in advertising male quality and guiding female mate choice have not been considered. This project addresses two major questions: (a) How does natural variation in close-range sexual signals affect female choice in moth species where the male pheromone resembles the female pheromone? and (b) Is the production of male sexual signals linked to production of female signals in these species? Specifically, the postdoc, working in collaboration with a graduate student will: (1) chemically identify the close-range male pheromones in two moth species (fall armyworm Spodoptera frugiperda, and tobacco budworm Heliothis virescens), (2) quantify the magnitude of between-strain intraspecific variation in the male pheromones, and (3) evaluate what variable features of the male pheromone contribute to female choice.

Portions of this project will be conducted at the MPICE and University of Amsterdam, providing a unique opportunity to be trained and conduct research in an international collaborative setting.

Qualifications: Ph.D. trained in entomology, biology, chemistry, behavior, evolutionary biology, or related fields. Experience in chemical ecology, including extraction, purification, behavioral assays and identification of semiochemicals. Instrumentation skills, including GC, MS, and electrophysiology (EAG, GC-EAD).

Application: Submit CV, relevant reprints and manuscripts, and a letter describing background, skills and interests. Also submit names, e-mail addresses and phone numbers of three references to:

coby_schal@ncsu.edu

Applications will be considered until a suitable candidate is found and the position is filled.

– Coby Schal, Ph.D Blanton J. Whitmire Distinguished Professor Department of Entomology, 3107 Gardner Hall Campus Box 7613, 100 Derieux Place North Carolina State University Raleigh, NC 27695-7613 office: (919) 515-1821 lab: (919) 515-1820 fax: (919) 515-7746 email: coby_schal@ncsu.edu WWW: http://www.cals.ncsu.edu/entomology/schal

coby_schal@ncsu.edu

NorthCarolinaStateU InsectDiseaseEvolution

Modeling Insect/Disease Evolution

PROJECT DESCRIPTION: We are looking for a postdoc to work on a Bill and Melinda Gates Foundation research project aimed at assessing the potential utility as well as risks associated with using selfish genetic elements to drive genes into mosquito populations that render them incapable of transmitting dengue fever or malaria.

The postdoc will be involved in building and testing stochastic, spatially explicit, simulation models that link insect population dynamics, population genetics and human disease epidemiology in a way that can contribute to improving strategies for releasing transgenic mosquitoes to reduce the incidence of human disease.

One of our new efforts will be in using parallel computing to increase the spatial scale of our models. We are also building simple spatial and non-spatial, deterministic and stochastic models as heuristic tools for better understanding basic principles, but we are not looking for applicants who are only interested in working with simple, generic models.

In addition to working on model development and analysis, the person in this position will collaborate in an interdisciplinary Gates-funded group composed of mosquito ecologists, disease epidemiologists, molecular biologists, biomathematicians, ethicists, and scientists from disease-endemic countries, in efforts to develop novel transgenic strategies for disease reduction.

QUALIFICATIONS: Training in evolutionary biology and experience with development of computer simulation models.

To apply: email a cover letter and CV to Fred_Gould@ncsu.edu and/or Alun_Lloyd@ncsu.edu For more details on the project see the following publications:

Magori, K., M. Legros, M. Puente, D. A. Focks, T. W. Scott, A. Lloyd, F, Gould. 2009. Skeeter Buster: a stochastic, spatially-explicit modeling tool for studying Aedes aegypti population replacement and population suppression strategies. PLoS Negl Trop Dis 3(9): e508. doi: 10.1371/journal.pntd.0000508

Xu, C., Legros, M., Gould, F, Lloyd, A. L. 2010.Understanding Uncertainties in Model-Based Predictions of Aedes aegypti Population Dynamics. PLoS Negl. Trop. Dis. 4(9): e830. doi:10.1371/journal.pntd. 0000830

Gould, F., Huang, Y., Legros, M., Lloyd, A. L. 2008. A killer-rescue system for self-limiting gene drive of anti-pathogen constructs. Proc. Roy. Soc. Lond. B. 275:2823-2829.

Huang, Y., Lloyd, A.L., Legros, M., Gould, F. 2010. Gene-drive into insect populations with age and spatial structure: a theoretical assessment. Evol. Appl. doi:10.1111/j.1752-4571.2010.00153.x

fred_gould@ncsu.edu

Portugal CeleganSEvolution

ERC POSTDOCTORAL POSITION - C. ELEGANS EXPERIMENTAL EVOLUTION FIRST CALL 22 DECEMBER 2010

A postdoctoral position is available in the laboratory of Henrique Teotonio at the Instituto Gulbenkian de Ciencia (IGC), Oeiras Portugal (www.igc.gulbenkian.pt).

PROJECT: Research will be focused on the genetic basis of adaptation to novel environments, in particular on the evolution of phenotype distributions in heterogeneous environments using populations of C. elegans manipulated in their mating system and standing levels of genetic variation. We aim to describe adaptation in life-history and gene expression phenotypes, and correlate them with genome-wide patterns of DNA sequence variation during long-term experimental evolution. The

specifics of the project will be defined according to the applicant's interests and experience.

REQUIREMENTS: PhD in evolutionary genetics and interest in the topics of adaptation from standing genetic variation, evolution of phenotypic plasticity, and mating system evolution. The ideal candidate will have a strong background in quantitative genetics (analysis of selection gradients, estimation of breeding values, QTL mapping) and/or population genetics of DNA sequence data (comparative analysis of single and multilocus diversity measures). Although not essential, experience with culturing model organisms in the lab is preferred, as well as experience with basic molecular biology techniques. The candidates are expected to have the computational skills to conduct multivariate statistical analysis and data management. Candidates with a PhD in theoretical evolutionary genetics will also be considered.

FUNDING and STARTING DATE: The postdoctoral position is funded by the European Research Council (ERC), for a monthly salary of about euro 2200, plus social benefits. The successful applicant can start as soon as March 2011. Yearly evaluations of performance will determine the renewal of the contract for up to a maximum of four years.

APPLICATIONS: A CV, a letter of motivation and the contact information of two referees should be sent by email to teotonio@igc.gulbenkian.pt. The call will remain open until a suitable candidate is found.

teotonio@igc.gulbenkian.pt

QueenMaryU GenomeEvolution

3 year post-doc on genome evolution

/School//of Biological//and Chemical Sciences, Queen Mary/

We seek a well-qualified enthusiastic postdoc for an exciting project that will develop methods for detecting genetic convergence among mammalian genomes. The successful applicant will need excellent skills in bioinformatics, and will be required to lead with the assembly, alignment (incl. some annotation) and analysis of large genome datasets. The postdoc will work with Dr Stephen Rossiter (QMUL), Mr Elia Stupka (QMUL/UCL) and Dr James Cotton (Sanger). Previous work by Rossiter and Cotton revealed evidence of convergent sequence evolution in a 'hearing gene' among lineages of bats and whales that have independently evolved ultrasonic hearing (see PNAS 105, 13959-13964 and Curr. Biol. 20, R53-54). This project will high throughput sequencing data to extend and refine these approaches for genome-wide analyses.

Candidates should hold a PhD in bioinformatics or related field. A strong background in evolutionary biology is essential and knowledge of phylogenetics models and experience of molecular biology would also be desirable. There will be opportunities to attend conferences, help supervise students and contribute to the intellectual and social life of the School. This is a 3 year, full time position starting Feb 2011 and funded by the Biological Sciences Research Council (UK). The salary ranges £30,229-£33,659 per annum including London allowance. Benefits include 30 days annual leave, final salary pension scheme and an interest–free season ticket loan.

The closing date for applications has been extended to 16th December 2010 at 4pm. Interviews will be held mid Dec to mid Jan. Completed application forms together with a copy of your CV, quoting reference number 10409/CA, should be returned to Ms Sunita Devi-Paul by e-mail: sbcs-vacancies@qmul.ac.uk (please CC s.j.rossiter@qmul.ac.uk). Informal enquires can also be made to Stephen Rossiter.

Candidates must be able to demonstrate their eligibility to work in the UK in accordance with the Immigration, Asylum and Nationality Act 2006. Where required this may include entry clearance or continued leave to remain under the Points Based Immigration Scheme. Further details and an application form can be obtained from the Human Resources website on: http://www.hr.qmul.ac.uk/vacancies. For further information about the School, please see http://www.sbcs.qmul.ac.uk . Unfortunately, we are unable to reply to those applicants who have not been short listed and invited for interview. However, we would like to thank all candidates for their applications and interest.

Stephen Rossiter, QMUL http://www.sbcs.qmul.ac.uk/staff/stephenrossiter.html Elia Stupka, QMUL/UCL http://www.icms.qmul.ac.uk/Profiles/Digestive%20Diseases/Stupka%20Elia.html James Cotton, Wellcome Trust Sanger Institute https://sites.google.com/site/jamescottonresearch/
keywords: evolution, mammals, bats, bioinformatics, phylogenetics, molecular, genetics, NGS

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

ScrippsInstOceanography MarineEvolutionaryGenomics

Postdoctoral position available immediately (one year, renewable) in the Burton lab at Scripps Institution of Oceanography (SIO) for a motivated young investigator to undertake physiological and molecular genetic analyses of hybrid breakdown and local adaptation in the intertidal copepod Tigriopus californicus. Interest in fundamental questions of evolutionary adaptation and speciation is essential. Experience with RNAi, functional genomics and transcriptome analysis is highly desirable. The successful candidate will have ample opportunity to pursue additional projects within the broad molecular ecology/evolutionary genetics scope of the lab.

SIO is a unit of the University of California, San Diego, which ranks as one of the elite research universities in the world. The setting and facilities for marine biological research are outstanding.

Please email CV, brief statement of research interests and experience. and list of 3 references to Ron Burton (rburton@ucsd.edu).

– Ron Burton Marine Biology Research Division Scripps Institution of Oceanography University of California, San Diego La Jolla, CA 92093-0202

rburton@ucsd.edu

Smithsonian NMNH EvolutionaryBiology

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS – National Museum of Natural History, Washington, DC. Deadline January 15. Fellowship opportunities at the Smithsonian's National Museum of Natural History (NMNH) have improved considerably thanks to a generous endowment gift from Peter Buck. The newly announced Peter Buck Graduate Fellowships will cover one to two years of research and training; Peter Buck Postdoctoral Fellowships will cover two to three years of research and training. The Peter Buck Fellowships are exclusive to NMNH. The Smithsonian also offers graduate fellowships (six weeks), predoctoral fellowships (up to two years), and postdoctoral fellowships (up to two years) for research at the NMNH or any of the Smithsonian's other museums and field stations. Two special fellowships are offered, one in molecular evolution and one in stable isotope analysis. Applications for all of these fellowships are handled through the Smithsonian Office of Fellowships, and are due January 15.

We encourage you to contact a potential Smithsonian advisor well before the deadline for advice about the research facilities and resources that are available and the appropriateness of your research proposal. Information about potential Smithsonian advisors is available on the Office of Fellowships and NMNH websites (http://www.si.edu/ofg/, http://www.mnh.si.edu/rc/-).

Helen James Research Zoologist and Curator Division of Birds, MRC-116 National Museum of Natural History Smithsonian Institution Washington DC 20013-7012 Ph. 202-633-0792

"James, Helen" <JAMESH@si.edu>

StockholmU Bioinformatics

Postdoctoral Fellowship in Bioinformatics

at the Stockholm Bioinformatics Center (http://-www.sbc.su.se/), which is located at AlbaNova University Center, next to both Stockholm University and KTH (the Royal Institute of Techonology). The SBC will be co-localized with the Science for Life Laboratory (http://www.scilifelab.se/) from 2011 and has excellent contacts with a number of life science, physics, and computer science departments at Stockholm University and KTH. The fellowship is offered for 1+1 years.

Project: Protein Function and Network Analysis We are using machine learning and computational modelling techniques to infer protein function from protein sequence, evolution, or interactions. The goal is to build a map of all proteins with details on how they interact with each other and other molecules. A protein's biochemical function and its context with interaction partners are key to understanding its biological function. This map, or functional network, is developed to discover pathways and modules, and to predict the function of previously un(der)characterised proteins.

In this systems biology project, heterogeneous data

sources are combined to predict functional coupling between proteins in order to build networks that model pathways and interaction cascades. The data sources include co-expression, co-evolution, co-regulation, co-localisation, physical and genetic interactions, domain-domain interactions, and various sequence-based properties. The used methods include Bayesian networks, support vector machines, regression models, and in-house developed models.

The project involves programming, data analysis, benchmarking, and modelling, but also application of the developed methods to genes of particular interest, such as disease genes, in order to discover new protein functions and pathways. See http://FunCoup.sbc.su.se/ and http://InParanoid.sbc.su.se/ . The successful candidate should have a Ph.D. in bioinformatics or related field, and detailed knowledge of molecular biology. Alternatively, a Ph.D. in molecular biology or related field and at least 1 year of practical experience in bioinformatics research. Familiarity with sequence analysis techniques is essential, as well as a high level of motivation. Computer programming skills and knowledge of biological database systems are important merits. Please apply by sending your CV, a declaration of your research interests, and the email address and telephone number of references to:

Erik Sonnhammer, Ph.D. Professor of Bioinformatics Director of Stockholm Bioinformatics Center AlbaNova University Center, Stockholm University S-106 91 Stockholm, Sweden Tel: +46-(0)8-5537 8567 http://sonnhammer.sbc.su.se/ Erik.Sonnhammer@sbc.su.se

StockholmU ComputationalPalaeogenetics

A two-year postdoctoral position in computational palaeogenetics is available at the Swedish Museum of Natural History / Stockholm University (Department of Zoology).

We are seeking talented and motivated applicants for a two-year postdoctoral research position to study past demographic change and population divergence using genetic data. The research will primarily be concerned with analysis of serially sampled datasets obtained using ancient DNA technology. The current ancient DNA research underway at the Swedish Museum of Natural History is focused on the use of genetics to study the impact of past climate change on cold-adapted taxa. Ongoing projects include population genetics of woolly mammoths and cave lions, as well as investigating what impact the end of the last glaciation had on extant species such as lemmings and grouse. In addition to this, the candidate will also have the opportunity to work together with researchers at Stockholm University on projects concerned with the phylogeography of modern-day butterfly populations.

The research position is part of a collaborative effort to examine the interaction between past climate change and population dynamics. The position will be placed within the ancient DNA research group at the Swedish Museum of Natural History (Department of Molecular Systematics), but the position also involves active collaboration with researchers at Stockholm University (Sweden), Royal Holloway University of London (UK) and University of Tromsø (Norway). The position is jointly funded through Stockholm University's EkoKlim program, and the CLIMIGRATE project (a part of the FP7 ERA-NET program BiodivERsA).

The exact focus of the postdoctoral research project is flexible, and could in addition to participation in the projects mentioned above also include development of the candidate's own research project (including laboratory analysis and application of next generation sequencing technology). The start date of the position is also flexible, but should ideally be during spring 2011.

The ideal candidate is a creative and independent researcher with a PhD degree and a record of scientific achievement in population genetics, computational biology, bioinformatics or evolutionary biology. Knowledge in coalescence simulations and/or Bayesian inference of demographic change using serially sampled data is highly desirable, as is fluency in some basic programming language (e.g. C++, Perl, or Python).

Applicants should submit a CV including a publication list, a cover letter describing their qualifications and reasons for applying, and a list of two persons who may provide references. Deadline for applications is December 22, 2010. The application should be submitted in electronic form to Love.Dalen@nrm.se

More information about the ancient DNA research group at the Swedish Museum of Natural History can be found at: http://palaeogenetics.com/aDNA-Stockholm/aDNA-Stockholm.html Information about the host organisations can be found at www.nrm.se (the Swedish Museum of Natural History) and www.zoologi.su.se (Department of Zoology, Stockholm University).

For further questions regarding the position, please contact Dr. Love Dalén (Love.Dalen@nrm.se).

With regards,

Love Dalén

Department of Molecular Systematics Swedish Museum of Natural History Box 50007 SE-104 05 Stockholm Sweden Phone: +46 (0)8 5195 4281

Love.Dalen@nrm.se

UAdelaide AncientDNA

DNA from Ancient Soils (1 postdoc), and Environmental Genomics (2 postdocs, 4 PhDs)

Currently available at the Australian Centre for Ancient DNA, University of Adelaide

1) DNA from Ancient Soils

Dept of Earth and Ocean Sciences, Faculty of Science and Engineering, The University of Waikato, NZ & Australian Centre for Ancient DNA, School of Earth and Environmental Sciences, University of Adelaide, Australia

We are actively seeking a postdoctoral researcher to investigate the survival and stabilisation of ancient DNA (aDNA) and its mobility in ancient soils (from tephras) and paleosols, and to study the reliability/utility of soil DNA in the reconstruction of past environments. This project "DNA from ancient soils" has been funded by the NZ Marsden Fund for three years, and will involve molecular biology, the Australian Synchotron and standard geochemistry.

Applications are sought from candidates experienced in molecular biology and aDNA analysis, with a strong background in computational and informatics skills. Experience in soil chemistry/mineralogy/microbiology would be an advantage, and the research will require innovative and resourceful approaches. The work will be performed in both New Zealand (University of Waikato) and Australia (University of Adelaide)

The successful applicant will have been awarded their PhD at the time of taking up the appointment, and will have successfully published papers from their doctoral research.

Salary will be in the range of NZ$63,327 to $70,326 per year, depending on skills and experience.

Enquiries of an academic nature can be directed to Professor David Lowe, Department of Earth and Ocean Sciences, University of Waikato, email: d.lowe@waikato.ac.nz or see http://-earth.waikato.ac.nz/ Enquiries of an academic nature can also be directed to Professor Alan Cooper, Australian Centre for Ancient DNA, University of Adelaide, email: alan.cooper@adelaide.edu.au or see http://www.adelaide.edu.au/acad/ Fixed-term for three years from February 2011 Closing date: 15 January 2011 Vacancy number: 300356 For more information and to apply, visit www.jobs.waikato.ac.nz 2) Environmental Genomics: New genomic approaches for Biodiversity studies of Australian Soils, Water, Grasses, Forensic samples and Antarctic biota

Australian Centre for Ancient DNA, School of Earth and Environmental Sciences, University of Adelaide, Australia

Project Partners: Australian Federal Police; South Australian Research and Development Institute; Primary Industries and Resources South Australia; South Australian Water, Department of the Environment & Natural Resources; South Australian Museum; Biomatters NZ Ltd.

We are searching for 2 post-doctoral researchers (Molecular Ecology/Bioinformatics) to lead this large, multi-partnered project to design and implement new methods to perform rapid biodiversity assessment using Next Generation Sequencing.

We are also looking for up to 4 PhD candidates who are highly motivated and enjoy independent and unusual research in the general areas below. An interest in environmental genetics, natural history or bioinformatics are key requirements, and a background in any of the following would be useful: molecular ecology, genetics, molecular biology, phylogenetics bioinformatics/computing, chemistry/biochemistry, soil science.

The project will apply high throughput sequencing approaches to the analysis of environmental samples and develop a new range of methods to perform biodiversity surveys, taxonomic discovery, and environmental impact reports. The project will employ multiplexed PCR, 2nd/3rd Gen Sequencing, Bioinformatics and Phylogenetics to develop novel systems for rapid and accurate biodiversity assessment. Key topics within the project are the analysis of Australian soils, natural and re-use water supplies, Australian native grasses, Antarctic biota, and forensic material. The project is a $1M Australian Research Council-industry partnership.

The postdoc positions will also carry supervisory responsibilities for the PhD projects. It is anticipated that one position will be oriented towards data generation, and another towards bioinformatics/database

analysis.

The successful applicant will have been awarded their PhD at the time of taking up the appointment, and will have successfully published papers from their doctoral research.

Salary will be in the range of Aus $52,798 to $89,569 per year, depending on skills and experience.

Enquiries of an academic nature can be directed to Professor Alan Cooper, Australian Centre for Ancient DNA, University of Adelaide, email: alan.cooper@adelaide.edu.au or see http://-www.adelaide.edu.au/acad/ Fixed-term for three years from early 2011 Closing date: 29 December

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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

UBasel HostMicrobeInteractions

2 Postdoc positions in evolutionary microbial (meta-)genomics are available in the research group of Dieter Ebert (University of Basel, Switzerland). The research group has an emphasis on the evolution and genetics of host-symbiont interactions (http://-evolution.unibas.ch/).

We are looking for highly motivated candidates with an interest in evolutionary and microbial genomics, metagenomics and microbiota community structure. A background in any of the following fields is desired: microbiology, bio-informatics, population genetics, experimental evolutionary ecology, metagenomics and evolutionary genomics. The positions are funded to work on the population structure and functional aspects of host-microbiome interactions in Daphnia. The suggested methodology includes metagenome approaches, comparative meta-genomics, experimental studies of host-microbe interactions, QTL typing, and population surveys. Previous experience with Daphnia is not required, but excellent written, verbal, and interpersonal skills, good work ethics, and the ability to think creatively and critically are desired. The working language at the institute is English. Starting dates are flexible, from April 2011 onwards. Positions are funded for 3 years with a 1 year trial period.

Please send your application by E-mail to Dieter Ebert (dieter.ebert@unibas.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 20 January 2011 will be given full consideration. Interviews will be held in the second half of February 2011.

Note: We are also looking for two PhD students and a technician on the same project (see separate announcement).

Contact information:

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

dieter.ebert@unibas.ch

UCDavis EvolutionaryBiology

DEADLINE: January 20, 2011

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY–The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their PhD.

The position is for TWO YEARS, subject to review after one year, and can begin as early as 1 July 2011. This position is covered by a collective bargaining unit. It has an annual starting salary of $38,000 plus benefits, and $6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow teach a multi-day workshop, discussion or lecture series that is of broad interest to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Jay Stachowicz, can provide additional input on this aspect of the fellowship. For samples of past workshop abstracts and more information about UC Davis pro-

grams in population biology, http://cpb.ucdavis.edu/-CPB%20Postdoc%20Fellowship.html . ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, a short (1-2 page) description of proposed research including potential faculty mentors, a brief description of their proposed workshop/minicourse, and copies of two publications at http://www2.eve.ucdavis.edu/jobs/ all as PDFs. We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on-line instructions for further information. For full consideration, applications should be received by January 20. 2011. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to gradcoordinator@ucdavis.edu.

DEADLINE: January 20, 2011

Stephanie Macey-Gallow
<smaceygallow@ucdavis.edu>

UCDavis PopulationGenetics

Postdoctoral fellowships are available in the Begun lab at UC Davis. Ongoing projects in our lab include genetic and phenotypic analysis of spatially varying selection in Drosophila, Drosophila population genomics and empirical investigation of de novo genes in Drosophila.

The Department of Evolution and Ecology is a stimulating place to study evolutionary genetics. The third floor of Storer Hall houses the labs of Begun, Coop, Kopp, Langley and Turelli. Several other laboratories studying evolutionary genetics can be found in the department and in other departments across campus.

Please send by email a CV, a brief statement of research accomplishments and interests and email addresses of three references.

The University of California is an affirmative action/equal opportunity employer.

Department of Evolution and Ecology Center for Population Biology UC Davis

djbegun@ucdavis.edu

UGeorgia EvolutionaryGeneticsAging

The Promislow lab at the University of Georgia is seeking an enthusiastic, independent postdoctoral researcher to study the genetic architecture of aging in Drosophila. The goal of this project is to better understand the causes and consequences of aging in natural populations, using analyses of genomic and metabolomic networks in the fruit fly. The position is initially available for two years, and may be extended.

Applications should be sent by Jan. 5, 2010 by email to Daniel Promislow (promislow@uga.edu). Applicants are requested to send a single PDF file that includes a cover letter, a CV and one or two representative publications. Applicants should also arrange for three letters of recommendation to be sent by email.

For more information about the UGA Genetics Department, please see: http://www.genetics.uga.edu The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

promislo@uga.edu

UGothenburg TheoreticalBiology

AVAILABLE POSITION 22th of Dec 2010 Ref nr E 36 5539/10 University of Gothenburg, Faculty of Science announces: Postdoctoral position in Theoretical Biology â (two)

The Centre for Theoretical Biology at the University of Gothenburg (CTBio) hereby adver- tises two postdoctoral position (junior researchers).

Several research groups in Gothenburg address basic evolutionary questions, empirically and mathematically. We have formed a centre for theoretical biology, established by the Faculty of Natural Sciences (University of Gothenburg) in November 2006. The centre brings empiri- cal biologists, mathematicians, and theoretical physicists together. Its goal is to stimulate in- terdisciplinary collaboration and scientific quality in theoretical biology. The research groups are located at

different departments.

Duties The appointees are supposed to conduct their own research independently and also to partici- pate in the planning and execution of projects coordinated at CTBio. One project (A) deals with implementation of the multispecies coalescent for genomes residing in polyploid orga- nisms. The aim of the other project, (B), is to develop coalescent models describing the meta- population dynamics of a marine invertebrate species, Littorina saxatilis. This species is a widely used model for evolutionary studies and comprehensive background data is available (evolutionary ecology, behaviour, population genetics and intraspecific phylogeny). The projects involve intense collaborations not only with theoreticians but also with evolutionary biologists.

Start date and hosting department is by agreement with the appointee.

Qualifications Completed doctorate in Mathematics, Mathematical Statistics, Physics, Computer Science, or Biology, and documented in-depth knowledge of phylogenetics, branching processes and coalescent theory, implementation of models and familiarity with biological questions.

Further information For more information about CTBio, see http://www.ctbio.science.gu.se/-theoretical_biology/ .For further information regarding this position, please contact; Serik Sagitov (Project A, serik@chalmers.se), Bengt Oxelman (A, bengt.oxelman@dpes.gu.se), Bernhard Mehlig (B, Bernhard.Mehlig@physics.gu.se), Kerstin Johannesson (B, kerstin.johannesson@marecol.gu.se).

Application The application including reference number, the project description, curriculum vitae, thesis and the names and contact information of three referees should be sent to the following address: Registrator, Göteborgs universitet, Box 100, SE-405 30 Göteborg, SWEDEN Mark the application with reference number: E 36 5539/10 The application must be received no later than 17th January 2011. Union representatives: SACO Martin Björkman, Phone: +46 31-786 3608, SEKO Lennart Olsson, Phone: +46 31-773 1173, OFR-S Astrid Igerud, Phone: +46 31-773 1167.

DEAN

See also

http://www.science.gu.se/digitalAssets/1324/-1324997_postdoctoral-position-in-theoretical-biology——two-.pdf Best regards,

Bengt Oxelman

Bengt Oxelman <bengt.oxelman@dpes.gu.se>

UManchester Microbial Evolution

Postdoctoral Research Associate, Microbial Ecology and Evolution

Faculty of Life Sciences, University of Manchester, UK

We seek an enthusiastic and highly motivated evolutionary biologist/ microbial ecologist to study competitive interactions between bacteria and burying beetles for access to carrion. We have previously shown that microbial decomposers of carrion cause significant harm to beetle larvae. Furthermore, we have shown that beetles can reduce this harm by providing various forms of parental care for the larvae. The specific aims of this project are to: 1) Determine the fitness effects of microbes on beetles when competing for access to carrion. 2) Identify the bacterial species that decompose carrion using 454 deep- sequencing, the nature of the anti-competitor compounds these species secrete, and against whom these toxic products are targeted. 3) Determine the effects of behavioural, physiological and biochemical counterstrategies used by beetles and beetle larvae to contend with microbial competitors. The ideal applicant will have interest and experience in microbiology and evolutionary biology.

The successful applicant will be responsible for designing and carrying out experiments, analyzing experimental results, preparing manuscripts, and helping with the supervision of students. You should hold a PhD in a relevant biological discipline and have a strong background in evolutionary biology. Experience in microbial ecology is desirable.

This work is a collaborative project between Daniel Rozen and Andrew McBain at the University of Manchester and Per Smiseth at the University of Edinburgh. Occasional travel to Edinburgh will be required.

Funded by the Leverhulme Trust, this position is tenable from 15 January 2011 for 19 months.

Applications will be accepted until 1 January.

Informal enquiries can be addressed to: Daniel Rozen, Tel: +44 (0) 161 275 5094, Email: Daniel.rozen@manchester.ac.uk

Application forms and further particulars can be obtained at http://www.man.ac.uk/news/vacancies Daniel Rozen Faculty of Life Sciences Michael Smith Building Oxford Road, Manchester M13 9PT UK

phone: +44 (0)161 275 5094 fax: +44 (0)161 275 5082

daniel rozen <Daniel.Rozen@manchester.ac.uk>

UNSW Sydney ViralEvolutionModelling

Post-doctoral position in mathematical modelling of viral evolution, Sydney, Australia

A post-doctoral position funded by the Australian Research Council is available at the University of New South Wales (UNSW), Sydney, Australia. The successful applicant will be part of a collaborative team involved in modelling the evolution and epidemiology of viruses. The investigators of the team are Mark Tanaka and Peter White (UNSW), Katia Koelle (Duke University) and Roland Regoes (ETH Zurich). The postdoctoral researcher will develop mathematical models, implement computer simulations, and design statistical methods to analyse genomic data. The successful applicant will have the opportunity to contribute to a range of projects.

The selection crteria are: a PhD in a quantitative discipline such as theoretical biology, bioinformatics, mathematics, statistics, physics or computer science; a strong research track record in mathematical modelling or biostatistics; an interest in viral evolution; proficiency with Linux or Unix and computer programming languages, preferably C and R; excellent oral and written communication skills; the ability to work effectively as part of a team as well as independently; knowledge of OHS responsibilities and a commitment to attending relevant OHS training; knowledge of equal opportunity principles.

For the full information package see http://-www.hr.unsw.edu.au/services/recruitment/jobs/-26111020.html Informal enquiries to Mark Tanaka, email: m.tanaka@unsw.edu.au

m.tanaka@unsw.edu.au

UQueensland Bioinformatics

Dear colleague, The following advertisement will be posted in the next couple of days. Could you please bring this to the attention of anyone who might be qualified and interested? With thanks, mark

*** *** *** Postdoctoral research position – bioinformatics / lateral genetic transfer

Institute for Molecular Bioscience, University of Queensland Brisbane, Australia

A postdoctoral position is available immediately to carry out computational and bioinformatic research on lateral (horizontal) genetic transfer among prokaryotes, with a focus on pathogens. Our aim is to construct automated scalable workflows and analyse the mode and patterns of LGT at both global and fine scales among 10,000s of prokaryotic genomes and the broader mobilome (viruses, plasmids, environmental sequences). This research position is with Professor Mark Ragan (/PNAS/ 102:14332, 2005; /Syst Biol/ 56:206, 2007; /PLoS ONE/ 4:e4524, 2009; /Phil Trans Roy Soc Lond B/ 364:2241, 2009; /Genome Biol Evol/ 1:429, 2009; /Bioinformatics/ 26:737, 2010; /FEMS Microbiol Rev/ 2011 in press).

Duties and responsibilities include (1) developing automated processes and implementing a scalable information system to manage sequence data and metadata for prokaryote genomes and other sequences, (2) identifying, developing, benchmarking and applying scalable algorithmic approaches, particularly based on adaptive optimisation and alignment-free methods, yielding statistically robust trees and networks of putative relationship among regions of these sequences, (3) analysing these against biological hypotheses in infectivity, pathogenesis and virulence, and (4) co-supervising postgraduate students and being highly proactive in generating high-quality, high-impact journal publications.

In addition to academic qualifications and experience, strong skills in genome-scale bioinformatics, statistics, data management and scripting are required. The successful applicant will be highly organised, have strong interpersonal skills, and demonstrate high-level ability to write in clear, grammatically correct English.

Appointment will be at Academic Level A (AUD 53,780 - $72,950 per annum plus 17% employer superannuation contribution) or at Level B (AUD 76,790 - 91,187 per annum plus 17% employer superannuation contribution), depending on experience. One-year term full-time, potentially renewable.

A poll in /The Scientist/ magazine (2010) named UQ as the best academic institution to work at outside the USA.

Further information: www.uq.edu.au/staff < http://-www.uq.edu.au/staff >. Email m.ragan@uq.edu.au

– Mark A. Ragan, Professor and Head Genomics and Computational Biology Institute for Molecular Bioscience Professor, School of Information Technology& Electrical Engineering The University of Queensland Brisbane, Qld 4072 Australia

Director, ARC Centre of Excellence in Bioinformatics

tel +61-7-3346-2616 / 2617 fax +61-7-3346-2101

m.ragan@imb.uq.edu.au http://www.imb.uq.edu.au http://bioinformatics.org.au http://-www.visiblecell.com http://www.qfab.org.au Mark Ragan <m.ragan@imb.uq.edu.au>

UTexas Austin EvolutionaryBiol

This is a reminder that the departmental Postdoctoral Fellowship in Integrative Biology at UT Austin is due on January 17, 2010. See below for details.

Postdoctoral Fellow in Integrative Biology.

The Section of Integrative Biology at the University of Texas at Austin invites applications for a Postdoctoral Fellow in Integrative Biology. This subject area is broadly defined to include evolution, ecology, and behavior. The Fellow will be expected to conduct an independent high-quality research program that intersects with the interests of two or more faculty in the Section. For information about the Section of Integrative Biology, visit http://www.biosci.utexas.edu/ib/ . In addition, one semester per year the Fellow will coteach an undergraduate course on Research Methods, as part of the UTeach program for training K-12 science teachers. For information about the UTeach program, visit http://www.uteach.utexas.edu/ The position is for two years, subject to annual review. The Fellow is requested to start work at the University of Texas by August 2011. There is an annual salary of $40,000 with an additional $10,000 per year in research support for travel, equipment, or supplies.

We particularly encourage applications from candidates that have recently completed, or will soon complete, their Ph.D. Candidates are encouraged to contact potential faculty sponsors prior to applying.

Applicants should electronically submit a single pdf file containing the following, in order:

1) Coverletter, including proposed faculty sponsors (max 1 page)

2) CV

3) Statement of research accomplishments (maximum 2 pages).

4) Statement describing the candidate's proposed research for the duration of this postdoctoral position (maximum 2 pages).

5) Statement describing the candidate's teaching experience and philosophy (maximum 2 pages)

6) Copies of 2 publications

7) List of three references, with contact information (email, telephone, and mailing address). We will request letters directly from these references, after identifying top candidates.

The application pdf file should be emailed to ibjob@austin.utexas.edu, with a subject line "IB Postdoc Application: <YOUR NAME>". Applications must be received by January 17, 20010. For questions about this position, please send an email to ibjob@mail.utexas.edu, or contact a prospective faculty mentor in the department.

The University of Texas is an Equal Opportunity Employer.

Dr. Daniel I. Bolnick

Early Career Scientist Howard Hughes Medical Institute

Associate Professor 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 https://-webspace.utexas.edu/dib73/TheBolnickLab/-Home.html

UTexas Austin EvolutionaryBiol correction

Applications for the Postdoctoral Fellowship in Integrative Biology at UT Austin are due on January 17, 2011 (not 2010 as indicated in yesterday's email). See below for details.

Postdoctoral Fellow in Integrative Biology.

The Section of Integrative Biology at the University of Texas at Austin invites applications for a Post-

doctoral Fellow in Integrative Biology. This subject area is broadly defined to include evolution, ecology, and behavior. The Fellow will be expected to conduct an independent high-quality research program of their own design that intersects with the interests of two or more faculty in the Section. For information about the Section of Integrative Biology, visit http://-www.biosci.utexas.edu/ib/. In addition, one semester per year the Fellow will co-teach an undergraduate course on Research Methods, as part of the UTeach program for training K-12 science teachers. For information about the UTeach program, visit http://-www.uteach.utexas.edu/ The position is for two years, subject to annual review. The Fellow is requested to start work at the University of Texas by August 2011. There is an annual salary of $40,000 with an additional $10,000 per year in research support for travel, equipment, or supplies.

We particularly encourage applications from candidates that have recently completed, or will soon complete, their Ph.D. Candidates are encouraged to contact potential faculty sponsors prior to applying.

Applicants should electronically submit a single pdf file containing the following, in order:

1) Coverletter, including proposed faculty sponsors (max 1 page)

2) CV

3) Statement of research accomplishments (maximum 2 pages).

4) Statement describing the candidate's proposed research for the duration of this postdoctoral position (maximum 2 pages).

5) Statement describing the candidate's teaching experience and philosophy (maximum 2 pages)

6) Copies of 2 publications

7) List of three references, with contact information (email, telephone, and mailing address). We will request letters directly from these references, after identifying top candidates.

The application pdf file should be emailed to ibjob@austin.utexas.edu, with a subject line "IB Postdoc Application: <YOUR NAME>". Applications must be received by January 17, 20010. For questions about this position, please send an email to ibjob@mail.utexas.edu, or contact a prospective faculty mentor in the department.

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UTexas Austin EvolutionaryBiology

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5) Statement describing the candidate's teaching experience and philosophy (maximum 2 pages)

6) Copies of 2 publications

7) List of three references, with contact information (email, telephone, and mailing address). We will request letters directly from these references, after identifying top candidates.

The application pdf file should be emailed to ibjob@austin.utexas.edu, with a subject line "IB Postdoc Application: <YOUR NAME>". Applications must be received by January 17, 2009. For questions about this position, please send an email to ibjob@mail.utexas.edu, or contact a prospective faculty mentor in the department.

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UToronto EvolutionaryBiol

The Department of Ecology and Evolutionary Biology < www.eeb.utoronto.ca > at the University of Toronto invites applications for Departmental Postdoctoral Fellowships in the areas of Ecology and Evolutionary Biology, broadly defined. One position is available this year, and we expect that another will become available next year through an ongoing EEB Postdoctoral Fellowship Program. Positions may continue for two years, subject to review after one year, and can begin as early as July 1, 2011. The salary starts at $40,000 per year, with research expenses covered by the Postdoctoral Advisor.

The Fellow will be a fully participating member in the Department. Candidates must identify and communicate with a potential advisor (or advisors) in advance of the application process. All full-time faculty members at the St. George (downtown) campus of the University of Toronto are eligible to serve as advisors (see _www.eeb.utoronto.ca/postdoc/_ for a list of potential supervisors). Opportunities for teaching in an upper level course may be available, if the candidate wishes to teach.

To apply, applicants should first contact and obtain the agreement of a faculty advisor (or co-advisors). Afterwards, applicants should submit a cover letter clearly indicating the proposed faculty advisor(s), a curriculum vitae, copies of 2 publications, and a short (1-3 pages) description of past research accomplishments and future research plans. Applicants should include names and e-mail addresses of two potential referees. Applicants should also indicate the date they will be available to begin the position. All application materials must be submitted as PDF's in a single email to: Elizabeth Rentzelos <chairsec.eeb@utoronto.ca>. Review of applications will begin on Feb. 1, 2011.

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, 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 theCentre for the Analysis of Genome Evolution and Function (_www.cagef.utoronto.ca_).

Megan Frederickson Assistant Professor Dept. of Ecology& Evolutionary Biology University of Toronto 25 Harbord Street Toronto, Ontario, M5S 3G5, Canada Email: m.frederickson@utoronto.ca Web: labs.eeb.utoronto.ca/frederickson

m.frederickson@utoronto.ca

UTuebingen NewtEvolution

Postdoc Position in Behavioral and Molecular Ecology

University of Tübingen, Institute of Evolution and Ecology, Group of Comparative Zoology

The research group of Katharina Foerster seeks a highly motivated team-oriented post-doctoral researcher with

a strong background in behavioral and molecular ecology. The person appointed will develop and conduct a research program on alpine newts (in the field near Tübingen, and on captive animals), possible research areas may include sexual selection, selection of life history traits, population genetics, or immunogenetics. The person is expected to teach (4 hours/week and semester) and supervise bachelor and master students.

The candidate will have a PhD in a relevant area of biology. Self-motivation and the willingness to work effectively and flexibly within a multi-disciplinary team will be essential. The working language in the group is English. However, for teaching and everyday life at the University and in Tübingen, some knowledge of German will be advantageous.

This is a fixed-term position, available for 2 years from 01. March 2011. The salary will be according to a public service position in Germany (TV-L 13). Applications will be reviewed from January 24, 2011 until the position is filled.

To apply, please send an email with a single file attachment including your CV, a short description of your research interests and research experience (including a list of methods you are familiar with), and names and email addresses of 2 references who could be contacted to:

katharina.foerster@uni-tuebingen.de

The group of Comparative Zoology at the University of Tübingen is part of the Institute of Evolution and Ecology, a young and lively mix of experts ranging from vegetation ecologists to animal physiologists. This institute is a founding member of the recently established Evolution & Ecology platform EvE. Eve unites scientists working in the broad field of evolution and ecology in Tübingen, and it organises joint research and teaching, scientific meetings and public events. This environment offers excellent opportunities for professional feedback and interdisciplinary collaborations.

katharina.foerster@uni-tuebingen.de

UWisconsinMadison ABC studies

Postdoc in Approximate Bayesian Computation and Systems Biology at UW-Madison

We are seeking a postdoc with interests in Bayesian parameter estimation, systems biology and the integration of diverse software components.

The goal of this project is to implement and integrate existing computational tools into a software framework for parameter estimation in complex biological systems. This work will use an existing simulation model of the Cholesterol synthesis pathway as an example. To implement the software system it will be necessary to integrate software for Approximate Bayesian Computation (ABC), distributed computing (Condor) and stochastic simulations.

This is an excellent opportunity to learn about ABC, distributed computing and systems biology or to get real life experience of how modeling is done in systems biology today.

Ideally, the successful candidate would have the following skills: - Experience or a strong interest in integrating software systems. - Experience or interest in programming in C++ and/or Python. - Experience or interest in parameter estimation or systems biology or distributed computing. Due to the interdisciplinary nature of the work, candidates willing to learn some of these skills are encouraged to apply as well. Candidates with a background in ABC and evolution are also very welcome.

You will work in an interdisciplinary environment with - Prof. L. Loewe, (http://evolution.ws/people/loewe/) - Prof. M. Ferris, (http://www.cs.wisc.edu/~ferris/) - Prof. M. Livny (http://www.cs.wisc.edu/~miron/) at the newly opened Wisconsin Institute for Discovery (http://discovery.wisc.edu/wisconsin/) at the University of Wisconsin-Madison. You will also collaborate internationally with other groups on ABC and Cholesterol synthesis models.

Review of applications starts immediately and the position will remain open until a successful candidate has been found.

To apply, interested applicants should forward their CV including a publication list, contact details of three reference writers and a one page description of their experience and research interests related to this position.

For more information and for applying, please contact Laurence Loewe directly (Loewe at wisc dot edu).

Related information and updates regarding to this job can be found at: http://evolution.ws/people/loewe/-jobs loewe@wisc.edu

UWisconsinMadison FishPopulations

Post-doctoral opportunity: Tracing population linkages of stream gobies in Hawaii using microchemistry UW-Madison Center for Limnology, University of Wisconsin

The McIntyre lab group in the Center for Limnology at the University of Wisconsin seeks a post-doc to use the microchemistry of fish otoliths to infer individual movement histories and population connectivity. The work is part of a larger team project to quantify linkages among populations of at-risk stream gobies across the Hawaiian archipelago by merging population genetic, field assessment, and environmental chemistry approaches. PIs include Mike Blum (Tulane), Jim Gilliam (NC State), and McIntyre. Otolith work is conducted in close collaboration with Nate Bickford (U of Great Falls).

The post-doc will lead the collection, preparation, and chemical analysis of otoliths as well as subsequent statistical analysis and manuscript preparation. This will include samples from conspecific gobies collected from dozens of watersheds across five islands, yielding unusually rich biogeochemical datasets. Two types of chemical analyses are of interest: trace element profiles (pilot work included 18 isotopes of 13 elements) by LA-ICP-MS to characterize the chemical environment during natal, larval, and post-settlement periods; and O isotope ratios by ion microprobe to reconstruct thermal histories during larval and post-settlement periods. Results will be interpreted in evolutionary, population, landscape, and conservation contexts.

The expected task list has five components: joining the field team for roughly three months of intensive sampling throughout the Hawaiian archipelago in spring 2011; preparation and analysis of otoliths; statistical analysis of the 2011 dataset as well as an extensive pilot dataset; preparation of multiple manuscripts on otolith results; and contribution to team manuscripts synthesizing overall results of the project. Additional opportunities for involvement in other otolith-based projects in my lab group also may be available.

Experience in both field work and environmental chemistry, a successful publication record, and a positive, team-oriented attitude are essential qualifications. Candidates with specific experience in the preparation and elemental/isotopic analysis of fish otoliths (or other carbonates) are particular encouraged to apply. The successful applicant must be able to work independently on otolith analyses, but also contribute to the esprit de corps of my lab group and the broader project team. Please see my website for more project details and lab philosophy: http://limnology.wisc.edu/personnel/-mcintyre/ The position will begin on or around 1 February 2011, and funding is available through at least May 2012 (pending performance). A competitive post-doc salary will be offered, including UW-Madison benefits package. Aside from field work, the position will be based at the Center for Limnology of the University of Wisconsin in Madison. The Center' is home to a world-renowned aquatic sciences research group, and features a vibrant atmosphere in which collegial interactions among faculty, staff, post-docs, and graduate students are the norm. Madison is widely recognized for its high quality of life, lively culture and arts scene, and easy access to natural areas. Costs of living are moderate, and public buses or bicycle paths are easy transportation options.

To apply, please submit a letter of interest, CV, three relevant reprints (in pdf form), and phone & email addresses of three references to Denise Karns (dkkarns@wisc.edu). The letter of interest should explicitly address relevant experience/expertise in both field and lab settings. Review of applications will begin Dec 26 and will continue until the position is filled. Any questions about the position may be directed to Pete McIntyre (pmcintyre@wisc.edu).

Denise Karns <dkkarns@wisc.edu>

YaleU BiodiversityInformatics

1-2 Postdoctoral positions in Macroecology, Biodiversity Science and Biodiversity/Geo-Informatics

Jetz Lab, Dept of Ecology and Evolutionary Biology (EEB), Yale University

POSITIONS: 1-2 two-year postdoctoral positions are available in our research group starting summer 2011 to work in areas related to ongoing NSF projects (Map of Life: An infrastructure for integrating global species distribution knowledge; Validating and advancing projections of species' distributions in the face of global change) and beyond. Extension beyond two years is possible. We are looking for the following potential candidates and qualifications:

Postdoc in Macroecology, Biodiversity Science and Conservation Biogeography. Successful candidates will have extensive experience in the analysis of geographic biodiversity and ecological data, an additional strong background in community ecology and macroevolution, advanced technical skills in R and GIS, and a compelling publication record.

Applications from candidates interested in global change questions are welcome.

Postdoc in Biodiversity Informatics. Successful candidates will have superior skills in the development of tools for the analysis of biodiversity and geospatial data, advanced data management skills, advanced programming skills (in e.g. Java, Python, php, etc.), and evidence of successful development of software and/or web tools. Experience with GIS and satellite imagery is a plus.

Successful postdoctoral candidates will benefit from a number of existing data and project opportunities in the lab, but research beyond these is welcome and expected.

RESEARCH GROUP: In the Jetz Lab, the successful candidate will interact with a number of PhD students postdoctoral fellows. For further information

see: www.yale.edu/jetz. Yale has a thriving community of postdocs and graduate students in ecology, evolution and global change science. The postdoctoral fellow will benefit from interactions with the EEB Department, the Yale Institute for Biospheric Studies (www.yale.edu/yibs), the Peabody Museum (both physically connected to EEB), the Yale Climate & Energy Institute, and the Yale School of Forestry and Environmental Studies (http://environment.yale.edu).

APPLICATION: Please email a short letter of interest, C.V., and the names and contact details of three referees (ideally all combined in one pdf) to walter.jetz@yale.edu - subject line: Biodiversity Positions. Please submit application materials before 16 Jan, 2011.

walter.jetz@yale.edu

WorkshopsCourses

Maine Evol and medicine Aug8

Evolution and Medicine One-Week Summer Course at Mt Desert Island Biological Laboratories

Publication of a recent special issue of PNAS on Evolution in Health and Medicine has led to inquiries from many health professionals about how to learn more. In response, an intensive course will be offered the week of August 8th, 2011 at the Mt Desert Island Biological Laboratories, located off the coast of Maine in Arcadia National Park. The faculty will include Carl Bergstrom (University of Washington), Peter Gluckman (University of Auckland), Peter Ellison (Harvard University), Randolph Nesse (University of Michigan), and Stephen Stearns (Yale University).

The course will provide the 20 participants with an introduction to how health professionals can apply the principles of evolutionary biology in clinical, research, and educational settings. No prior background is required, but advance reading will be helpful for those

new to the field. Admission preference will be given to early applicants, and to faculty who are teaching or planning to teach about evolutionary applications in medicine, however clinicians and researchers will be warmly welcomed. CME credit may be available. The tuition of $600-1500 will depend on the participant's discipline, level of training, and need for CME/university credit. Tuition includes all meals, but not lodging, which is available nearby.

To receive more detailed information about the course, and to be considered for admission, send a brief note to SummerCourse@evmedreview.com that describes your background, current position, and why this course would be of interest. Use the same email address to add your name to a list for notification about related future opportunities. For special questions, please contact Randolph Nesse at nesse@umich.edu. Updates will be posted on The Evolution and Medicine Review. http://evmedreview.com . nesse@umich.edu

Maine EvolutionaryMedicine Aug8-12

Evolution and Medicine: A One-Week Summer Course at the Mount Desert Island Biological Laboratory

Publication of a recent special issue of PNAS on Evolution in Health and Medicine (http://-evmedreview.com/?p=3D186) has led to inquiries from many health professionals about how to learn more. In response, an intensive course will be offered the week of August 8th, 2011 at the Mt Desert Island Biological Laboratory (http://www.mdibl.org/), located off the coast of Maine near Acadia National Park. The faculty will include Carl Bergstrom (University of Washington), Peter Gluckman (University of Auckland), Peter Ellison (Harvard University), Randolph Nesse (University of Michigan), and Stephen Stearns (Yale University).

The course will provide the 20 participants with an introduction to how health professionals can apply the principles of evolutionary biology in clinical, research, and educational settings. No prior background is required, but advance reading will be helpful for those new to the field. Admission preference will be given to early applicants, and to faculty who are teaching or planning to teach about evolutionary applications in medicine. Clinicians and researchers are encouraged to apply. CME credit may be available. The tuition of $600-1500 will depend on the participant's discipline, level of training, and need for CME/university credit. Tuition includes all meals, but not lodging, which is available nearby. The National Evolutionary Synthesis Center is helping to sponsor this course by providing tuition and travel funding for several participants from underrepresented minority groups

To receive more detailed information about the course, and to be considered for admission, send a brief note to SummerCourse@evmedreview.com that describes your background, current position, and why this course would be of interest. Use the same email address to add your name to a list for notification about related future opportunities. For special questions, please contact Randolph Nesse at nesse@umich.edu. Updates will be posted on The Evolution and Medicine Review (http://evmedreview.com/)

Kevin Strange, Ph.D. Director and Professor

Mount Desert Island Biological Laboratory P.O. Box 35 Salisbury Cove, ME 04672 Phone: 207-288-9880 Ext. 136 Fax: 207-288-2130 www.mdibl.org drke-james@gmail.com

Montreal SchoolofPopulationGenomics May30-Jun3

Montreal Spring School of Population Genomics and Genetic Epidemiology

May 30 â June 3, 2011

See www.montrealspringschool.ca for details

Day 0 â May 30th (Optional for those who need a review

(Concurrent Sessions)

Review of Genetics

Instructors: Camille Malouf and Mathieu Bourgey Time: 8:00am â 12:00pm

Â Mendel's Laws of Genetics The chromosome theory of heredity Linkage and genetic recombination >From genes to genotype

Â Population Genetics Genetic Variability Assessing the genetic diversity of populations Main evolutionary forces Applications of population genetics

Review of Epidemiology

Instructor: Ellen Freeman

Time: 8:00am â 12:00pm

Â This lecture will review basic concepts in Epidemiology, including measures of disease frequency, study designs, and measures of association. We will also discuss principles of causal inference including recognizing and controlling for bias and confounding and detecting interactions. Examples from genetic epidemiology will be presented and attendants will be asked to read and discuss an article from this field.

Review of Biostatistics

Instructor: Nathalie Malo

Time: 1:00 â5:00pm

Â The lecture will review concepts in probability and statistics. Topics will include sample space and event, union and intersection, conditional probability and independence, Bayesâ Theorem, common probability distributions, and the concept of likelihood. Statistical inference methods will be discussed, including maximum likelihood estimation, confidence intervals, and hypothesis testing (large sample tests, exact and permutation tests).

Â The related computer lab will illustrate the use of some of these biostatistical tools using the R software. Attendants will also be given practice exercises with R.

Day 1 â May 31st (note that exact hours will be adjusted to fit lunch and coffee breaks etc.)

Introductory Concepts in Human Populations and Medical Genomics

Instructor: Laurent Excoffier

Time: 8:00am â 12:00pm

â Principles of population genetics: This lecture will cover some of the major concepts in human population genetics including random genetic drift and the derivation and properties of the basic coalescence model. (Laurent Excoffier 8:00am â 10:30am).

1. Random Genetic Drift

1.1. The Hardy-Weinberg equilibrium law

1.2. The Wright-Fisher Model of random genetic drift

1.3. Effective population size

2. Gene trees and the basic coalescence model

2.1. Coalescence under different demographic scenarios (e.g., population growth)

Introductory Concepts in Genetic Epidemiology

Instructor: Alexandre AlcaÃs

Time: 1:00pm â 4:15pm

Â We will first briefly introduce concepts and designs to study familial aggregation followed by basic principles of linkage and association analysis for qualitative traits. Topics covered will include designs and analytical methods used to study genetic linkage. Both parametric and non-parametric linkage analysis will be covered. Presentation of the concepts will be followed by a computer lab application using real data and currently available software such as MLB.

Invited Lecture

Speaker: Andrew Clark

Time: 4:15 â 5:00pm

Day 2 â June 1st

Introductory Concepts in Human Populations and Medical Genomics

Instructors: Luis Barreiro and Lluis Quintana-Murci

Time: 8:00am â 12:00pm

o Human population genomics: This lecture will introduce the students to the most recent genomic datasets on human genome diversity. We will discuss the contribution of HapMap and the 1000 genomes project to the better understanding of human evolution and the development of genome- wide association studies. The following concepts will be presented:

â Mutation and recombination

â Recombination at pedigree level â concept of linkage disequilibrium (LD)

â Measures of LD and its decay

â Tagging SNPs

â Population mutation parameter, population recombination rate

â The lab will introduce methods of analyzing data from the HapMap project.

o Demography of human populations: This lecture will introduce the different models to explain human evolution. It will give an overview of the most recent genetic data explaining the human origins and migration patterns. It will concentrate on phylogeographic studies, mostly concerning uniparentally-inherited genomes. (Lluis Quintana-Murci 10:30am â 12:00pm).

Introductory Concepts in Genetic Epidemiology

Instructors: Alexandre AlcaÃs and HÃ©lÃne VÃ©zina

Time: 1:00pm â 5:00pm

Â This lecture will cover designs and analytic methods for genetic association studies. Methods to investigate direct (candidate locus) and indirect (linkage disequilibrium mapping) associations with human disease will be introduced. Both family-based and population based

— / —

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

NESCent GMODtraining Mar8-12

Applications are now being accepted for the 2011 GMOD Spring Training course, a five-day hands-on school aimed at teaching new GMOD administrators how to install, configure and integrate popular GMOD components. The course will be held March 8-12 at the US National Evolutionary Synthesis Center (NESCent) in Durham, North Carolina, as part of GMOD Americas 2011.

Links: *http://gmod.org/wiki/-2011_GMOD_Spring_Training * http://-gmod.org/wiki/GMOD_Americas_2011 * http://-www.nescent.org/ These components will be covered: * Apollo - genome annotation editor * Chado - biological database schema * Galaxy -analysis and data integration framework * GBrowse - genome viewer * GBrowse_syn - synteny viewer * GFF3 - genome annotation file format and tools * InterMine - biological data mining system * JBrowse - next generation genome browser * MAKER - genome annotation pipeline * Tripal - web front end to Chado databases

The deadline for applying is the end of Friday, January 7, 2011. Admission is competitive and is based on the strength of the application, especially the statement of interest. The 2010 school had over 60 applicants for the 25 slots. Any application received after deadline will be automatically placed on the waiting list.

The course requires some knowledge of Linux as a prerequisite. The registration fee will be $265 (only $53 per day!). There will be a limited number of scholarships available.

This may be the only GMOD School offered in 2011. If you are interested, you are strongly encouraged to apply by January 7.

Thanks,

Dave Clements – http://gmod.org/wiki/-GMOD_Americas_2011 http://gmod.org/-wiki/GMOD_News http://gmod.org/wiki/-Help_Desk_Feedback clementsnescent@gmail.com

SimonFraserU AppliedPhylogenetics Feb21

Dear colleagues,

I am co-organizing a CIHR-funded workshop on applied phylogenetics next year (February 21) at Simon Fraser University. While the workshop is targeted at students and scientists in the health sciences, my roots are in evolutionary biology and investigators in all biological sciences should consider themselves very welcome.

We have space for 30 participants; if you are interested (or for more information), please complete an application form online at: http://devweb.cfenet.ubc.ca/-workshop Thanks! - Art Poon.

Associate Research Scientist, Bioinformatics BC Centre for Excellence in HIV/AIDS Adjunct Assistant Professor Faculty of Health Sciences Simon Fraser University

apoon@cfenet.ubc.ca

Smithsonian WildlifeConservation May22-27

Graduate and Professional Course Non-Invasive Genetic Techniques in Wildlife Conservation May 22-27, 2011 Smithsonian-Mason Global Conservation Studies Program At the Smithsonian Conservation Biology Institute, Front Royal, VA, USA Visit http://conservationtraining.si.edu or contact SCBI-training@si.edu for more information.

This course is an introduction for graduate students and professionals to the applications, benefits, and drawbacks of non-invasive genetic techniques to wildlife conservation. The course will concentrate on the use of non-invasive techniques to answer questions in animal behavior, population biology, and population management, with a particular focus on the conservation of mammalian populations. Participants gain hands-on

experience relating to all stages of a research project utilizing modern non-invasive methods by working with expert researchers through a combination of field, laboratory and computer-based modules.

Throughout the course participants work through directed research projects, progressing from study design through field data collection, sampling protocols, and DNA extraction and amplification, to analysis of microsatellite and sequence data using the most effective and accessible software packages. The course focuses on relatedness, population size estimation and population dynamics; additional lectures address genotype reliability, research applications for ancient DNA, and techniques for assessing disease prevalence in wild populations.

Many of these groundbreaking non-invasive genetic techniques were initially developed at the Smithsonianâs National Zoo and its Center for Conservation and Evolutionary Genetics (CCEG). Course instructors include scientists from CCEG (Drs. Jesus Maldonado and Rob Fleischer) and George Mason University (Dr. Christine Bozarth) and several expert visiting instructors including Drs. Mike Schwartz, Elizabeth Archie, and Lori Eggert. While most instruction takes place in Front Royal, the course also includes laboratory work at the National Zooâs new state-of-the-art genetics lab in Washington, DC.

The course fee is $1,500, which includes instruction and course materials as well as all meals, lodging, and transport to/from Washington-Dulles International Airport (IAD). All other travel costs and incidental expenses are the participantâs responsibility. Participants earn Continuing Education Units; graduate course credit (1) is available for qualified applicants through George Mason University (total fee: $1600 in-state (VA), $1850 out-of-state). Participants should have previously completed a college-level genetics and basic ecology/evolution course. Applications due by April 8, 2011.

Visit http://nationalzoo.si.edu/SCBI/MAB/GMU/-genetics.cfm for more information and application instructions.

Visit http://nationalzoo.si.edu/scbi/CCEG to learn more about the National Zooâs Center for Conservation and Evolutionary Genetics.

Additional Upcoming Courses

â January 10-19, 2011: Conservation Conflict Resolution (Must apply now to be considered) Developing the crucial skills needed to ensure conservation efforts endure. â February 7-18, 2011: Statistics for Ecology and Conservation Biology (Deadline to apply is fast approaching! â Jan 3) Establishing the theoretical framework and essential quantitative skills for effective research design and implementation. â March 14-25, 2011: Spatial Ecology, Geospatial Analysis, and Remote Sensing for Conservation Learning to detect, monitor, map, and model local and global changes in biological and ecological systems. â April 18-29, 2011: Species Monitoring and Conservation: Terrestrial Mammals Learning current research and monitoring techniques and their application to conservation. â May 3-13, 2011: Effective Conservation Leadership Cultivating leadership, communication, and teamwork approaches and applying them to diverse conservation situations. â June 6-17, 2011: Adaptive Management for Conservation Success Build your capacity in team-based design, planning, implementation, and monitoring of real conservation projects.

Smithsonian-Mason Global Conservation Studies Program course participants engage in dynamic learning communities, build lifelong professional networks, and connect with valuable conservation resources.

NZP-SCBI Training <scbitraining@si.edu>

Sweden ModelingSpeciation Mar7-11

We are pleased to announce the winter school

Eco-evolutionary Modeling of Speciation

to be held from March 7 to 11, 2011, at the Abisko Scientific Research Station in Abisko, Sweden. The school will provide participants with a gentle introduction to theoretical methods in modern speciation research. Introductory overviews, including some coverage of recent advances in the field, will be organized in four lecture series as listed below. These will be complemented by a fifth lecture series covering developments in empirical speciation research:

1. Genetic speciation models (Sander van Doorn, University of Bern, Switzerland) 2. Modeling ecological dynamics involved in speciation (Eva Kisdi, University of Helsinki, Finland) 3. Individual-based models in speciation research (Katja Enberg, Institute of Marine Research, Bergen, Norway, and Rupert Mazzucco, International Institute for Applied Systems Analysis, Laxenburg, Austria) 4. Theory of species packing (Akira Sasaki, Graduate University for Advanced Studies, Sokendai, Hayama, Japan) 5. Introduction to empirical speciation research (Ole Seehausen, Swiss Federal Insti-

tute of Aquatic Science and Technology, Eawag, Kastanienbaum, Switzerland)

The school is organized by the European Research Networking Programme âFrontiers of Speciation Researchâ (FroSpects). It is primarily intended for PhD students and early-stage postdoctoral researchers. Thanks to financial support by the European Science Foundation, there is no registration fee and participants will be provided with local accommodation and meals free of charge.

To receive full consideration, prospective participants should email a single PDF file with a brief CV (including a list of publications, if applicable) and a one-paragraph statement of motivation to Ãke Brännström (ake.brannstrom@math.umu.se) and Ulf Dieckmann (dieckmann@iiasa.ac.at) before January 15, 2011. Later applications will be considered subject to availability.

For further information about the school, please see www.org.umu.se/icelab/english/educatio/eco-evolutionary-modeling-of-speciation For further information about the FroSpects Research Networking Programme and about other upcoming events organized by FroSpects, please see www.iiasa.ac.at/-Research/EEP/FroSpects With best wishes,

Ãke Brännström UmeÃ University, Sweden

Ulf Dieckmann International Institute for Applied Systems Analysis, Laxenburg, Austria

Ãke Brännström <ake.brannstrom@math.umu.se>

UColorado EvoDevo Apr21-24

Dear Colleagues,

microMORPH is pleased to announce our first annual workshop, "Microevolution of Development: Processes within Populations and Species" to be held at the University of Colorado, Boulder on April 21-24, 2011.

We are accepting applications from graduate students and post doctoral researchers now through January 14, 2011. microMORPH will pay for travel, accommodations, and meals for a select set of applicants who are US-citizens or currently at US institutions (although non-US citizens not currently associated with US institutions are encouraged to apply, we cannot supply funding for them).

For more information, please see the attached flier and visit our website at:

http://www.colorado.edu/eeb/microMORPH These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is 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.

If you would prefer not to receive any more emails from me about the microMORPH RCN, please email me back with the word "NO" in the subject line and I will remove you from the mailing list. I will use this list for occasional updates on funding opportunities through the microMORPH RCN, and yearly workshops hosted by microMORPH.

Sincerely,

Pamela K. Diggle & William Friedman microMORPH CO PIs

Rob Baker PhD Candidate http://-rintintin.colorado.edu/ ~ bakerrl microMORPH RA http://www.colorado.edu/eeb/microMORPH Dept. of Ecology and Evolutionary Bio Ramaley N122 Campus Box 334 University of Colorado Boulder, CO 80309

robert.baker@Colorado.EDU

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed

in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly 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.