E v o l D i r

December 1, 2010

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.

—— / ——

Conferences

Bath EvolutionMicrobes Jan20-21

This is to inform you of two meetings hosted by the UK-based and EPSRC-funded network MMEMS:

The first takes place on 20-21 Jan, 2011 in Bath, England entitled "Evolution of Microbial Cooperation". The second, entitled "Mathematics of Microbes: Biological Details of the Evolving Cell" takes place at Imperial College London, 27-29 April, 2011.

Registration for the former is open now, registration for the latter will open in January.

As can be seen from prior meetings organised by the same group,

see http://www.mmems.org/index.php?id_pag their purpose is to provide a forum for researchers interested in the application of mathematical models to phenomena in evolutionary microbiology. From within-cell to the population level, plenary speakers are drawn from both theoretical and experimental communities and we would be glad if you could join us in either Bath or London.

The advertised registration fee of £60 covers local costs associated with hosting the event.

Robert Beardmore Department of Mathematics Imperial College London

"Beardmore, Robert E" <r.beardmore@imperial.ac.uk>

Berlin BioSystematics Feb21-27

"BioSystematics Berlin 2011", 21. - 27. February 2011< http://www.biosyst-berlin-2011.de/ >

Reminder Deadline Approaching - only 6 days left Earlybird registration and Abstract Submission Deadline: 14 November 2010 Please register now< https://-secure.weidelt.de/wincongress/bgbm/biosyst2011/ >!

The Botanic Garden and Botanical Museum Berlin-Dahlem< http://www.bgbm.org/default_e.htm > (Freie Universität Berlin) and the Museum für Naturkunde Berlin< http://www.naturkundemuseum-berlin.de/index_english.html > are pleased to host the

7th International Congress of Systematic and Evolutionary Biology (ICSEB VII) of IOSEB (International Organization for Systematic and Evolutionary Biology),

12th Annual Meeting of the Society of Biological Systematics (GfBS)< http://www.gfbs-home.de/ >, and

20th International Symposium "Biodiversity and Evolutionary Biology" of the German Botanical Society (DBG)< http://www.deutsche-botanische-gesellschaft.de/html/213biodiversity.html >.

The scope of the congress is to bring together evolutionary biologists and systematists working on plant, animal, and microscopical organisms to discuss and debate topics of common interest. The focus will be on inno-

vative and forward-looking ideas, concepts, and methods in systematic and evolutionary biology. It will also provide a unique opportunity to highlight topics of current biodiversity research. We hope to attract many researchers from different fields to this congress and look forward to welcoming you in Berlin in February 2011.

Major Conference Topics

* Trends in Taxonomy * Evolution of Organisms in Time and Space * The Evolutionary Thought: History, Philosophy and Society * Evolution of Form and Function * Inventorying and Managing Biodiversity

The earlybird registration and abstract submission deadline has been extended to 14 November 2010, so please register now!

Congress organizers are looking forward to many enriching contributions and to welcoming you in Berlin next February.

Birgit Nordt Congress Office "BioSystematics Berlin 2011" Freie Universität Berlin Botanic Garden and Botanical Museum Königin-Luise-Str. 6-8 14195 Berlin Germany

Phone: ++49/30/838 50 383 Fax: ++ 49/30/841 729 52

E-mail: berlin2011@bgbm.org

Web: www.biosyst-berlin-2011.de BerlinCongress2011 <BerlinCongress2011@bgbm.org>

Estonia ThermalAdaptation Apr28-30

Science meeting

"Evolutionary and plastic responses of animal growth to different temperatures: adaptations and constraints"

will be held in Tartu, Estonia from April 28 to April 30, 2011. The meeting is organized by the European Science Foundation research networking programme "Thermal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics".

For further information and registration, see

http://www.ut.ee/~tiited/thermadapt/ SUMMARY: The symposium aims to bring together evolutionary ecologists and physiologists working on temperature-driven a) plastic and b) evolutionary changes in 1) growth rates and 2) body sizes of various (invertebrate and vertebrate) ectothermic animals. Responses to temperature is a topic in which the interplay of different evolutionary forces (primarily, selection and constraints) is particularly obvious. Interdisciplinary efforts in this field are therefore likely to contribute substantially to an improved and more integrated understanding of evolutionary processes. Furthermore, clarifying conceptual and terminological problems would serve the needs of both theoretical and applied research on thermal adaptation, and beyond.

Toomas Tammaru professor of zoology http://www.ut.ee/~tammarut tammarut@ut.ee

KualaLumpur MarineBiodiversitySpeciation Jun14-18

Dear Colleagues,

Our symposium proposal Marine biodiversity, speciation, and hybridization for the upcoming Pacific Science Congress (PSC) in Kuala Lumpur, Malaysia (June 14-18, 2011) has been approved by the organizing committee.

If you would be interested in speaking at this symposium, please let us know. We are organizing the program for talks and we still have approximately ten (20 min) talks still available.

In order to participate, we would require a talk title and abstract no later than January 1st, 2011. The deadline for abstract submission on the general conference website (http://www.pacificscience.org/congress2011.html) is January 15th, 2011, at which time more information on the venue, accommodations, etc., should be available.

We hope you can join us in Malaysia.

Sincerely,

Joseph DiBattista, PhD (joseph99@hawaii.edu) & Zac Forsman, PhD (zac@hawaii.edu)

— Hawaii Institute of Marine Biology P.O. Box 1346 Kaneohe, HI 96744 808-236-7428 (ph) 808-236-7443 (fax)

Zac Forsman <zac@hawaii.edu>

UBielefeld EvolBiol Mar4-6

16th Graduate Meeting of Evolutionary Biology of the DZG

University of Bielefeld 04-06 March 2011

The annual meeting of the evolutionary biology group of the German zoological society (DZG) is an excellent opportunity for graduate students (Diploma, Matser, PhD, early Post docs) in the field of evolutionary biology to present their projects in an informal atmosphere, to get to know other people with similar topics of evolutionary biology and to learn more about other evolutionary studies and issues.

This year's meeting will be held in Bielefeld from the 04th to 6th March 2011 and is organized by the Group of Behavioral Biology and the Evolutionary Biology group.

All Diploma, Master, PhDs and early Post docs, who are interested in any aspects of evolutionary biology, are encouraged to join the meeting. Botanists, mycologists, microbiologists and theoretical biologists are also welcome like zoologists. For presenting your data you have the opportunity to give a talk or present a poster of your project in an informal atmosphere. This meeting is a very good way to get feedback about your work, to learn more about other studies in the field of evolutionary biology and to make contacts with other evolutionary biologists.

For more information see

http://www.uni-bielefeld.de/biologie/grad2011/-index.html *We are looking forward to see you in Bielefeld.*

alifranzke@googlemail.com

UCaliforniaIrvine WesternEvolBiol Dec11

I'd like to announce a regional meeting, the 4th annual WEB (Western Evolutionary Biologists) Meeting. This year it will be held at UC-Irvine on Saturday Dec. 11. The UC organization NERE funds the meeting. Each UC campus has some travel funds available for NERE members, for more information contact the NERE Associate Director at your UC campus (see website linked below for details).

If you'd like to give a (15-20 min) talk or poster, note the deadline for abstract submission is not too long from now (Nov 30). Although registration is free, there is a deadline of Nov 30 to facilitate planning the catering.

The WEB web site and registration is here: http://-www.lifesci.ucsb.edu/nere-web/ -

Todd H. Oakley Professor Ecology Evolution and Marine Biology University of California-Santa Barbara Santa Barbara, CA 93106 (805) 893-4715 http://www.lifesci.ucsb.edu/eemb/labs/oakley/ todd.oakley@lifesci.ucsb.edu

ULisbon EvolutionaryBiology Dec22 RegistrationDeadline

Dear all

we remind that the 6th Portuguese Evolutionary Biology Meeting will be held at the Faculty of Sciences of the University of Lisbon (FCUL) on December 22nd 2010. The Portuguese Evolutionary Biology Meetings aim to bring together Portuguese researchers and to promote Evolutionary Biology in Portugal.

Please note that application deadline for participants and contributions is November 26.

To register and submit a presentation send an email to biologia.evolutiva@gmail.com indicating your name and affiliation (including Research Centre when applied). Include also an email for future contacts if you do not wish our reply to be returned to sender.

To submit a presentation please add the following information:

-Presentation title -List of authors and respective affiliations - Abstract (max 250 words) - Type of presentation preferred (oral or poster)

We recall that we accept communications (oral or posters) that have been presented at other Scientific meetings, particularly if presented at recently held International meetings.

The full programme will be defined some days after the closing of inscriptions.

For updates, check www.biologia-evolutiva.net Portuguese and English will be the official languages of the meeting.

Best regards, The Organizing Committee

André Levy (Unidade de Investigação em Eco-Etologia, ISPA) Margarida Matos (Centro de Biologia Ambiental, FCUL) Sara Magalhães (Centro de Biologia Ambiental, FCUL)

Margarida Matos <mmatos@fc.ul.pt>

UProvence 15thEBM Sep27-30

Dear all the early registration for the 15th EBM September 27-30,2011 is open more informations : http://sites.univ-provence.fr/evol-cgr/ list of the discussed subjects

Evolutionary biology concepts and modeling;

Biodiversity and Systematics;

Comparative genomics ans post-genomics (at all taxomic levels);

Functional phylogeny;

Environment and biological evolution;

Origin of life and exobiology;

Non-adaptative versus adaptative evolution;

The "minor" phyla: their usefulness in evolutionary biology knowledge;

Convergent evolution

best regards Pierre Pontarotti

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

GradStudentPositions

AmericanU EvolutionaryBiol

The Department of Biology at American University encourages applicants for our MS and MA in Biology programs.

Our faculty have a broad range of research interests spanning genetics, evolution, and disease processes. American University is located in northwest Washington, DC, and affords students exceptional opportunities for collaboration with neighboring research institutions, such as NIH, the Smithsonian Natural History Museum, the National Zoo, and many others. Teaching assistantships and tuition remission are available on a competitive basis.

Applicants should have completed a bachelor[1]s degree in the biological sciences. Applications for Fall 2011 will be considered on a rolling basis, but those received by March 1 will given priority. GRE scores are required, and the Biology or Biochemistry, Cell and Molecular Biology subject test are encouraged. Successful applicants will complete a course of study and conduct independent research. More details are available on the AU Biology Department website (http://-www.american.edu/cas/biology/MS-BIO.cfm). To apply, visit AU College of Arts and Sciences Graduate Admissions (http://www.american.edu/cas/admissions/-apply.cfm)

Featured Labs: ** Development, Genes and Diversity The Angelini Lab is broadly interested in the developmental and molecular genetic aspects of morphological evolution ("evo-devo"). Using a combination of developmental, genetic and phylogenetic methods, we seek to understand the roles of genes in the evolution of animal diversity. Insects and other arthropods have been our study organisms. Current projects are examining the evolution of size regulation in the bodies and appendages of beetles and true bugs. Student-designed projects are also possible. For more details, please visit the lab website (http://nw08.american.edu/~angelini/) or e-mail Dr. Angelini (angelini@american.edu).

** Biology of Caves and Other Subterranean Habitats The Culver Lab is looking for students for two projects. One is the mapping of subterranean biodiversity in the middle Atlantic region. There are many records, often scattered, of subterranean species, with poorly defined locations. The project involves gathering these records, finding the best estimate of the location, mapping the results, and making recommendations about areas to protect. It involves using Excel and ArcGIS. The second is on the ecology and natural history of species living in seeps and other superficial subterranean habitats in the region. For more information, please contact Dr. Culver (dculver@american.edu).

David R. Angelini, Ph.D. American University Department of Biology, Hurst Hall 101 4400 Massachusetts Avenue, NW Washington, DC 20016-8007 phone: 202-885-2113 (new number) e-mail: angelini@american.edu website: http://nw08.american.edu/ ~ angelini/ angelini@american.edu

BostonU Biodiversity

Opportunities for Graduate Study in Ecology, Behavior and Evolution at Boston University. The graduate program in Ecology, Behavior and Evolution (EBE) at Boston University invites applications from outstanding students interested in the integrative study of biodiversity. Graduate students in the EBE program study a broad diversity of organisms and ecosystems, and employ a wide range of methods in studies of basic and applied questions. Student research is often highly integrative and typically includes both laboratory and field-based components. Our faculty have significant strengths in the areas of animal behavior, comparative genomics, ecosystem ecology, evolution, molecular ecology, and tropical ecology (see EBE website at http://www.bu.edu/biology/research/-ecology/index.shtml). Because of the diversity of interests represented, students are generally accepted into the PhD program to work with a specific faculty member. Prospective students are thus strongly encouraged to directly contact those professors with whom they might like to work. Support for graduate study is available through multiple sources, including research assistantships, teaching assistantships, and University

fellowships. Graduate students admitted to the PhD program are guaranteed academic year stipend support and tuition waivers for five years.

The closing date for consideration is December 7th, 2010; exceptional students may be accepted on a rolling basis. Direct general inquiries to Meredith Canode, Graduate Program Administrator, <mcanode@bu.edu>.

Christopher Schneider <cschneid@bu.edu>

BrownU IGERT EvolutionaryBiol

Brown University and the Marine Biological Labs in Woods Hole are accepting applications for a PhD program in the application of next- generation sequencing technologies to questions in ecology, evolution and environmental sciences.

This program is supported by an NSF IGERT award and will give special consideration to applicants interested in integrating genomics, ecology and evolutionary biology and computational biology as the foundation of their doctoral training. Highlights of the program are a core course in reverse ecology where natural populations at NSF LTER sites will sampled to test specific ecological or evolutionary questions, high throughput sequencing will be carried out to identify informative genes and genomes, the data will be analyzed with the latest computational tools, and the results will be presented in joint- authored manuscripts for publication. Research themes in 1) microbial and comparative genomics, 2) adaptation to environmental gradients, and 3) computational challenges of community genomic assembly will organize rotation and eventual dissertation projects.

Details can be found at:

http://brown.edu/Research/IGERT-reverse-ecology/ Applications should be submitted online through the Brown Graduate School web site:

http://www.brown.edu/gradschool/ Feel free to contact David Rand at Brown (David_Rand@brown.edu) or Zoe Cardon at MBL (zcardon@mbl.edu) with questions.

The deadline for applications is December 8.

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

BrownU PopGenetics adaptation

SEEKING PH.D. STUDENTS INTERESTED IN THE POPULATION GENETICS OF ADAPTATION. Graduate research opportunities are available at Brown University under the supervision of Professor Daniel Weinreich to commence September 2011.

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

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

Professor Weinreich accepts students through the Department of Ecology and Evolutionary Biology (http://www.brown.edu/Departments/EEB/-graduate/index.htm; deadline: Dec 8), the Center for Computational and Molecular Biology (http://www.brown.edu/Research/CCMB/PhD.htm; deadline: Jan 3) and the Brown/MBL program (http://www.mbl.edu/brown/). He is also a trainer in the Brown graduate program in Molecular Biology, Cell Biology, and Biochemistry (http://www.brown.edu/-Departments/Molecular_Biology/Grad_Program/; deadline: Jan 5).

Brown University is located in Providence, Rhode Island, one of the oldest cities in the United States and now an exciting and eclectic mix of communities with beautiful architecture, a diverse nightlife and ready ac-

cess to Newport, Boston and New York City as well as to Block Island, Cape Cod and the mountains of northern New England.

For more information please email weinreich [at] brown.edu.

CentralWashingtonU PlantEvolutionaryGenet

GRADUATE RESEARCH ASSISTANTSHIP IN PLANT EVOLUTIONARY GENETICS

The Dechaine Lab at Central Washington University seeks masterâs level graduate students in the field of plant evolutionary genetics. A graduate assistantship is available beginning in summer of 2011 for a student interested in studying the impact of crop gene introgression into wild sunflower. This USDA-funded project investigates the response of crop-like traits and persistence of cultivar alleles in the wild after several generations of natural selection. Students with interest and training in quantitative genetics and evolutionary biology are particularly encouraged to apply. Interested students should contact Dr. Jennifer Dechaine (dechaine@cwu.edu) for more information.

Central Washington University (http://-www.cwu.edu/) is a masterâs granting institution located in Ellensburg, WA, which is east of the Cascade Mountains in Central Washington. Ellensburg is a haven for outdoor recreation enthusiasts and a two-hour drive from Seattle, WA. Students in the CWU Biology Department have ample opportunities to work with faculty with diverse research interests (http://www.cwu.edu/ ˜ biology/grad/). Application deadline is February 1, 2011.

Dr. Jennifer Dechaine Assistant Professor of Biological Sciences Central Washington University 400 East University Way Ellensburg, WA 98926 dechaine@cwu.edu 509-963-2878 http://-www.cwu.edu/ ˜ biology/faculty/currentFaculty/-dechaine/index.html dechaine@cwu.EDU

CityUNewYork ConservationGenetics

A position for a PhD student at the Graduate Center, City University of New York is available through the Conservation Genetics / Molecular Ecology and Evolution laboratory of Eugenia Naro-Maciel, College of Staten Island, starting Fall 2011.

Compatible candidates should be interested in investigating relationships among and within species in order to understand patterns and processes of molecular evolution, and to inform conservation strategies. In this laboratory we use a comprehensive analytical approach to population genetics and systematics, and focus on globally endangered sea turtles as well as other marine animals and chelonians. This combination approach allows assignment of individuals to their unknown source populations, reveals relationships and differentiation among groups, and explores genetic variation within groups. This research provides unique insights into temporal and spatial patterns of genetic variation, dispersal, and migration, while enhancing basic biological knowledge of population structure and molecular evolution. By investigating population connectivity, or linkages among groups, and evolutionary history in endangered species, this program advances understanding of central questions in evolution and conservation biology.

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

Interested students are requested to visit the website (http://web.me.com/enaromaciel/Naro-Maciel_Laboratory/Home.html) then email a cv and cover letter, including research interests and GRE scores, to Eugenia.NaroMaciel@csi.cuny.edu

Some examples of ongoing or past research follow.

POPULATION STRUCTURE

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

sis to understand the connections between sea turtle populations. By determining the unknown linkages between feeding grounds and other regional breeding or feeding sites, we will better understand the range of these turtles, identify regional management partners, and determine conservation priorities.

DNA BARCODING

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

EVOLUTIONARY RELATIONSHIPS

Marine chelonians have inhabited the earth for over 100 million years (Hirayama, 1998). To address the lingering controversies and to recover a definitive marine turtle phylogeny, we sequenced five nuclear DNA markers and two mitochondrial genes in the seven widely recognized marine turtle species, the taxonomically ambiguous Eastern Pacific green turtle, and four outgroups. Using this approach we tested hypotheses about the evolutionary relationships of marine turtles, including the placement of the geographically restricted flatback turtle, and the origin of the rare spongivorous dietary habit of hawksbill turtles. Our phylogenetic

— / —

ColoradoStateU EvolutionaryBiol

Colorado State University PhD Student Positions Available

The Department of Bioagricultural Sciences and Pest Management (BSPM) at Colorado State University has several graduate student research and teaching assistantships available in fields ranging from ecology to genomics. The PIs and general research areas are listed below.

Stephen Chisholm (chisholm@colostate.edu): Community dynamics and pest management in algae production systems.

Whitney Cranshaw (Whitney.Cranshaw@ColoState.edu): Management of insects affecting vegetables, woody plants, and residential structures.

Ruth Hufbauer (ruth.hufbauer@colostate.edu): Evolutionary ecology of plants, insects, and plant-insect interactions; invasion biology, biological control

John McKay (jkmckay@colostate.edu): physiology and genomics of drought adaptation; molecular and evolutionary basis of guard cell signal transduction.

Andrew Norton (Andrew.Norton@Colostate.edu): Plant-insect interactions and the ecology of weed biological control systems

Paul Ode (paul.ode@colostate.edu): behavioral and evolutionary ecology of plant-herbivore-parasitoid interactions; parasitoid sex allocation; biological control involving parasitoids

Students can enroll through BSPM or through the Graduate Degree Program in Ecology. The deadline for applications is January 15, 2011. Application information: http://www.colostate.edu/Depts/bspm/-graduate%20studies/prospective%20students.html http://www.ecology.colostate.edu/prospective.php

Join the outstanding students and faculty at Colorado State University! To learn more, see us at: http://www.colostate.edu/Depts/-bspm/ http://www.ecology.colostate.edu/ http://-www.plantbiology.colostate.edu/ For more information and application instructions, please email our graduate secretary Janet Dill (dillj@lamar.colostate.edu) and the individual faculty listed above.

CSU is an EO/AA employer.

"McKay,John" <John.McKay@ColoState.EDU>

EAWAG Switzerland AdaptiveMaternalEffects

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based internationally active research institute within the domain of the ETH (Swiss Federal Institute of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water.

The Department of Aquatic Ecology seeks a Ph.D. student to study

Adaptive maternal effects in amphibian acid stress tolerance

Maternal effects are often an important form of adaptation to environmental change. The goal of this project is to understand the mechanisms of adaptive maternal effects in adaptation to environmental stress (acidification) in two species of amphibians (Rana arvalis and R. temporaria). Specifically, the project aims to explore the links between variation in egg capsule proteins and embryonic survival within and between divergent populations. The work involves field surveys, common garden laboratory experiments and proteomics. The student will be based at Eawag, with annual visits to Sweden.

A diploma or M.Sc. (or equivalent) degree in biology or related area is mandatory. The ideal candidate has a strong interest in evolutionary ecology, previous experience with proteomics and/or molecular genetics tools, is independent and works well in a team. This Swiss National Science foundation position is funded for three years and will be filled as soon as a good candidate is found (target starting date 1. February, 2011).

The application should include an application letter (with a statement of research interests and relevant experience), a CV and a list of publications (if any), copies of academic qualifications and the names and e-mail addresses of three referees. Please submit your application in electronic form as a single PDF file to Sandra Isenring, Human Resources Department (recruiting@eawag.ch<mailto:recruiting@eawag.ch>) citing reference number 104404. The deadline for applications is December 3, 2010.

The Department of Aquatic Ecology is situated in Dübendorf (near Zürich) and offers a dynamic environment with broad expertise in ecology and evolution. The working language is English. The project is conducted in collaboration with Doc. Anssi Laurila, Dept. of Ecology and Evolution, EBC, Uppsala University, Sweden, and Dr. Marc Suter, Dept. of Ecotoxicology, Eawag, Switzerland.

For further information consult www.eawag.ch< http://www.eawag.ch > or contact Dr. Katja Räsänen, (katja.rasanen@eawag.ch<mailto:katja.rasanen@eawag.ch>) or Web page: http://www.eawag.ch/about/-personen/homepages/rasaka . “Rasanen, Katja” <Katja.Raesaenen@eawag.ch>

GeorgeWashingtonU HerpetologySystematics

Systematics and Herpetology in Washington, D.C.

The Pyron Lab at The George Washington University seeks doctoral students and postdocs for the Fall of 2011 who are interested in historical biogeography, phylogeography, and the theory and practice of systematics. Graduate students will be part of the Robert Weintraub Program in Systematics and Evolution in the Department of Biological Sciences, a joint graduate program of GWU and the National Museum of Natural History at the Smithsonian. The major areas of research in my lab are global and regional drivers of biodiversity, speciation processes and phylogeographic patterns, and the development of statistical methods in phylogenetics and systematics. I invite students to develop their own fully-fledged, independent research projects along these lines. Empirical research in the lab primarily focuses on reptiles and amphibians.

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

If you are interested, please go to my website (http:/-/www.colubroid.org/) for more information. Various funding opportunities are available for well-qualified applicants. Experience with molecular, computational,

and field collection techniques is an important consideration. Interested persons should email me with a CV, research interests, and GRE scores. The deadline for application to GWU is January 2nd, 2011.

–

Alex Pyron rpyron@colubroid.org http://-www.colubroid.org/ For January, 2011: R. Alexander Pyron, Ph.D. Robert F. Griggs Assistant Professor of Biology Department of Biological Sciences The George Washington University Washington, D.C. 20052 Tel: 706-489-9727

rpyron@colubroid.org

IST Austria EvolutionaryBiol

Call for PhD Students

The Graduate School at IST Austria invites applicants from all countries to its PhD program. IST Austria is a new institution located on the outskirts of Vienna dedicated to cutting-edge basic research in the natural sciences and related disciplines. The language at the Institute and the Graduate School is English.

The PhD program combines advanced coursework and research, with a focus on Biology, Computer Science, Neuroscience, and interdisciplinary areas. IST Austria offers internationally competitive PhD salaries supporting 4-5 years of study. Applicants must hold either a BS or MS degree or equivalent.

The Institute offers PhD students positions with the following faculty: Nick Barton Evolutionary and Mathematical Biology Jonathan P. Bollback Evolutionary Biology Tobias Bollenbach Biophysics and Systems Biology Krishnendu Chatterjee Game Theory and Software Systems Theory Sylvia Cremer Evolutionary and Behavioral Biology Herbert Edelsbrunner Algorithms, Geometry, and Topology Cãlin C. Guet Systems and Synthetic Biology Carl-Philipp Heisenberg Cell and Developmental Biology Thomas A. Henzinger Software Systems Theory Peter Jonas Neuroscience Christoph Lampert Computer Vision and Machine Learning Michael Sixt Cell Biology and Immunology Ga[1]per Tkaèik Theoretical Biophysics and Neuroscience Chris Wojtan Computer Graphics

Additional faculty members will be announced on the IST website www.ist.ac.at. For further information and access to the online application please consult www.ist.ac.at/gradschool. For inquiries, please contact gradschool@ist.ac.at. For students wishing to enter the program in the fall of 2011, the deadline for applications is January 15, 2011.

IST Austria is committed to Equality and Diversity. Female students are encouraged to apply.

Irene Hetzenauer Academic Events Institute of Science and Technology Austria Phone +43-(0)2243 9000-1033; Fax +43-(0)-9000-2000 Mobile +43-(0)664 8850 9123 Am Campus 1 A-3400 Klosterneuburg

E-Mail: irene.hetzenauer@ist.ac.at Visit our website: www.ist.ac.at Irene HETZENAUER <Irene.HETZENAUER@ist.ac.at>

MaxPlanck Berlin ComputationalBiol

There are funded PhD positions in bioinformatics available at the International Max Planck Research School for Computational Biology and Scientific Computing (IMPRS-CBSC) in Berlin, Germany, starting autumn 2011.

We invite applications for a 3-year PhD program aimed at students holding a master's or comparable degree in bioinformatics, mathematics, physics, computer science, or biology. Students with a degree in mathematics, computer science and physics are expected to have the relevant biological background, whereas students with a degree in biology should be able to demonstrate profound knowledge in mathematics and computer science. The degree should be awarded before October 2011.

Areas of research include mathematical modelling, evolutionary genomics, computational systems biology, proteomics. For further details please visit our website: www.imprs-cbsc.mpg.de The IMPRS-CBSC is a joint program between the Max Planck Institute for Molecular Genetics, the Freie Universität Berlin and the CAS-MPG Partner Institute for Computational Biology, Shanghai. The program language is English.

Please apply through our website at http://www.imprs-cbsc.mpg.de/application.shtml before the 25th of February 2011 or contact Kirsten Kelleher (kelleher@molgen.mpg.de) for further details.

–

Kirsten Kelleher IMPRS-CBSC Coordinator Max

Planck Institute for Molecular Genetics Ihnestrasse 73 14195 Berlin

Tel: +49 30 8413-1154 Fax: +49 30 8413-1152 Email: kelleher@molgen.mpg.de www.imprs-cbsc.mpg.de

kelleher@molgen.mpg.de

MaxPlanckInst Leipzig EvolutionaryAnthro

Position Description: A PhD position is available within the molecular genetics group (http://-www.eva.mpg.de/primat/files/genetics.htm) in the Primatology Department at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany. This project, ?Genetic Analysis of Social Structure in Hamadryas Baboons,? will use genetics to articulate the role of kin selection in structuring hamadryas society, with a particular focus on the core behaviors unique to hamadryas and humans. Hamadryas baboons are one of the few primates to share core aspects of social structure with humans, such as a multilevel social structure, pair bonds, and female-biased dispersal, making them a particularly relevant model species for human social evolution. This research is part of an ongoing collaboration with Dr. Larissa Swedell (Queens College, New York) and will focus on a population of wild hamadryas baboons at her field site at Filoha, Ethiopia (http://www.baboonsonline.org/filoha/) that has been the subject of observational research since 1996. Over 600 noninvasive genetic samples have been collected between 2003 and 2010, and DNA has already been successfully extracted from them. Preliminary genotyping was begun in the fall of 2010. The Ph.D. could be either wholly focused on lab work or could include a fieldwork/behavioral data collection component.

This position falls within the Leipzig School of Human Origins (http://imprs.eva.mpg.de/start.html), a joint graduate program of the University of Leipzig (Germany) and the Max Planck Institute for Evolutionary Anthropology. This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a Ph.D. in anthropology, biology, evolutionary genetics, primatology, paleoanthropology and related fields. Our Ph.D. program is conducted in English, open for international students and designed as a 3-year-program.

Qualifications/Experience: We invite applications from all countries. Applicants must have a Bachelors degree before the start of the program.

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

Salary/funding: Ph.D. students are supported by fellowships which are provided either by the Max Planck Institute for Evolutionary Anthropology or the University of Leipzig.

Start Date: Available beginning in mid-January 2011, flexible start date.

Contact Information: Dr. Linda Vigilant vigilant@eva.mpg.de Deutscher Platz 6 Leipzig, Saxony 04103 Germany

vanessa_vandoren@eva.mpg.de

MaxPlanck Seewiesen EvoluitonaryBiology

PhD positions at the International Max Planck Research School (IMPRS) for Organismal Biology

The IMPRS for Organismal Biology offers several PhD student positions. The IMPRS is based in southern Germany and is jointly organized by The Max Planck Institute for Ornithology in Seewiesen and Radolfzell and the University of Konstanz. Outstanding students of all nationalities with a deep commitment to basic research in Organismal Biology are invited to apply.

More than 25 internationally recognized groups actively participate in the PhD program and offer challenging, cutting-edge PhD thesis projects in the fields of Behavior, Ecology, Evolution, and Physiology.

For a list with PhD project suggestions visit www.uni-konstanz.de/organismal-biology/people-research/-phdprojects . All students accepted to the program will be supported by stipends. The program offers dedicated teaching programs, high quality research experience, and outstanding research facilities in an inspiring research and living environment. All courses are taught in English. Each PhD candidate receives individual supervision and mentoring and is guided in her/his research work by a PhD advisory committee.

Deadline for the application is January 15, 2011. Interviews with the applicants are scheduled in Konstanz

for mid March. Candidates accepted into the program may start as early as April 2011.

The Max Planck Society and the University of Konstanz are equal opportunity employers. Applications from women and historically under-represented groups are particularly welcome.

Qualification Applicants should hold an MSc or equivalent degree in biology or a related discipline at the point of enrollment.

Queries should be mailed to the program office: IMPRS@uni-konstanz.de

Application For the application process visit www.uni-konstanz.de/organismal-biology International Max Planck Research School for Organismal Biology

c/o University of Konstanz

P.O. Box 639

78457 Konstanz

Germany

www.uni-konstanz.de/organismal-biology www.facebook.com/OrganismalBiology IMPRS@uni-konstanz.de

IMPRS@orn.mpg.de

Tel: +49 (0) 7531-88-4916

Fax: +49 (0) 7531-88-4917

IMPRS@uni-konstanz.de

NewMexicoStateU LifeHistoryEvolution

Graduate Position, NM State U-Life History Evolution. A graduate assistantship is available beginning in Fall 2011 for studies leading to a M.S. degree in fisheries and aquatic ecology or a Ph.D. in molecular biology. Research will focus on evolutionary and ecological genetics of tadpole shrimp inhabiting ephemeral aquatic habitats of the Chihuahuan Desert. A short-term exchange visit to a German university may be possible. The position will require creative thinking, scientific writing, data analysis, sample collection and preservation, DNA extraction, PCR, multiplexed genotyping of microsatellites, and restriction fragment analysis by gel electrophoresis. Also important is an ability to work cooperatively as a member of a larger research group that includes international collaborators. Interest and training in population genetics and evolutionary biology is preferred. Candidates for a Ph.D. must have completed a Master's degree with a research emphasis. Prospective candidates should submit a current cv and a cover letter describing research interests, career aspirations, education, and experience in the position requirements to Dr. David E. Cowley, Department of Fish, Wildlife & Conservation Ecology and Program in Molecular Biology, New Mexico State University, Box 30003 MSC 4901, Las Cruces, NM 88003-8003, dcowley@ad.nmsu.edu. Email submissions are encouraged.

David E. Cowley Guest Professor Technische Universität München AG Molekulare Zoologie Lehrstuhl für Zoologie Hans-Carl-von-Carlowitz-Platz 2 85354 Freising +49 (0)170 277-6643

—— and ——

Associate Professor New Mexico State University Dept Fish, Wildlife & Conservation Ecology and Program in Molecular Biology Box 30003, MSC 4901 Las Cruces, NM 88003-8003 dcowley@ad.nmsu.edu

"Cowley, David" <dcowley@ad.nmsu.edu>

RockefellerU InsectSocialEvolution

Insect Social Evolution at The Rockefeller University

Daniel Kronauer has recently accepted a position as Assistant Professor / Head of the Laboratory of Insect Social Evolution at The Rockefeller University in New York City. The lab will open in July 2011 and can accommodate a few Ph.D. students starting in the fall semester.

Research in the Laboratory of Insect Social Evolution will focus on a variety of questions pertaining to social evolution and behavior, including the genetic underpinnings of social behavior, the evolution of social insect mating systems, the evolution of cooperation and social conflict, and symbiotic interactions between social insects and other organisms. The main study systems will be army ants, which will be studied both in the field and under controlled laboratory conditions. Projects on other social insects are also welcome.

Applicants with a vested interest / experience in bioinformatics, molecular genetics and / or tropical fieldwork are especially encouraged to apply.

More information on Daniel's research can be found on the Rockefeller Newswire page (http:/-

/newswire.rockefeller.edu/?page=engine&id=1091) and his present homepage at Harvard University (http://www.oeb.harvard.edu/faculty/pierce/people/-kronauer/kronauer.shtml)

The Rockefeller University is a world-renowned center for research and graduate education. The 70+ research groups are not organized into formal departments which creates a highly interdisciplinary research atmosphere. The graduate program is flexible and individualized depending on a student's needs, and provides full financial support, housing on the Upper East Side of Manhattan, and outstanding opportunities for intellectual growth.

Applications for the Rockefeller Graduate Program have to be submitted online at https://-graduateapplication.rockefeller.edu/ The application deadline for the fall semester 2011 is December 6th 2010. Positions are open internationally.

Present address and contact information:

Daniel Kronauer, PhD Museum of Comparative Zoology Labs Harvard University 26 Oxford St Cambridge, MA 02138 USA Email: dkron@fas.harvard.edu

Daniel Kronauer <dkron@fas.harvard.edu>

RutgersU AlgalEvolution

Postdoctoral and PhD positions are available in the lab of Debashish Bhattacharya at Rutgers University (http://dblab.rutgers.edu/home/index.php). Our group is housed in spacious and modern facilities in Foran Hall at Rutgers University, which is less than 1 hr from downtown New York City. The Bhattacharya lab has an Illumina sequencer, high performance computing facilities, and extensive tools for molecular biology research. In addition to our collaborators inside and outside the USA, we are affiliated with a broad range of marine, ecological, and genetics researchers at Rutgers that offers an intellectually stimulating training environment. The postdoc and PhD positions would be involved in funded projects using de novo sequencing and functional genomic approaches to understand algal evolution or to conduct biofuel research (http:/-/biotech.rutgers.edu/PDFs/IGERT_flyer.pdf). The postdoc position is initially for 1 year with the possibility for extension based on performance. This individual should have a strong background in evolutionary genomics, molecular evolution, and bioinformatics. Familiarity with the UNIX environment and routine scripting is required. Experience in next-generation sequencing methods, relational databases and high-performance computing are a plus. The postdoc is expected to be a team player who can work independently, travel to conferences and meetings, contribute to grants, and generate publications. Postdoc salary will be commensurate with experience. PhD students should have a strong interest in genomics and evolution and will be trained in modern approaches in these areas. PhD students will affiliate with the Department of Ecology, Evolution and Natural Resources (http:/-/www.rci.rutgers.edu/~deenr/), the Institute of Marine and Coastal Science (http://marine.rutgers.edu/-main/), or the Graduate Program in Molecular Biosciences (http://lifesci.rutgers.edu/~molbiosci/).

The positions are open to US and international researchers/students but strong English skills are required. Postdoc applicants should submit a CV, letter of intent describing motivation, qualifications, and experience relevant to this position, and contact information for three references. PhD applicants should send a CV and a letter describing their motivation and prior experience. Send all application materials to cariveau@aesop.rutgers.edu. Review of applications will begin immediately. Please visit our lab website for additional information about our research interests and recent publications.

Best regards,

Debashish Bhattacharya Professor, Department of Ecology, Evolution and Natural Resources Institute of Marine and Coastal Science Rutgers University, New Brunswick, NJ 08901, USA Telephone: (732) 932-8165 ext. 184 Email: bhattacharya@aesop.rutgers.edu

cariveau@AESOP.Rutgers.edu

SanDiegoStateU EvolutionaryBiol

SDSU and UCR Joint PhD in Evolutionary Biology (JDPEB)

San Diego State University (SDSU) offers a doctoral degree program in Evolutionary Biology in collaboration with the University of California, Riverside Graduate Program in Evolution, Ecology and Organismal Biology. This joint program involves research training under the supervision of participating SDSU Faculty, whose members are drawn from Evolutionary Biology, Ecology, and Molecular and Cell Biology Program ar-

eas in the Department of Biology. The faculty research interests address a wide range of topics (e.g., biodiversity studies, molecular evolution, genomics, paleontology, population biology and systematics) and reflect the interdisciplinary nature of evolutionary biology. Financial support Annual stipends are provided for all joint Ph.D. students, as is the full cost of tuition/educational fees. Students also receive a complete health benefits package.

For more detailed information, visit our website:

http://www.bio.sdsu.edu/eb/jdeb.html JDPEB program contact: Dr. Annalisa Berta Coordinator, Evolutionary Biology Doctoral Program Department of Biology San Diego Diego State University San Diego, CA 92182-4614 Email: aberta@sunstroke.sdsu.edu

aberta@sunstroke.sdsu.edu

StockholmU 2 LepidopteranEvolution 2

Sorry for the double posting, but apparently, the link in my first posting got mangled in evoldir's processing. So I make another attempt and also provide an alternative link to a pdf file with the announcement.

I currently have a PhD position opening in Animal Ecology, and I would appreciate if you could circulate this information to anyone interested.

The title of the project is "Effects of climate on niche utilization in nettle-feeding butterflies" and the application deadline is November 20 2010.

Full details can be found in the announcement: http://www.su.se/pub/jsp/polopoly.jsp?d=3D11447&a=3D85838 or, if the above link still does not work: http://www.zoologi.su.se/about/lediga/Utlysning_Oktober_2010_NJ.pdf Best regards, Niklas Janz – Niklas Janz, Ph. D. Department of Zoology, Stockholm University, 106 91 Stockholm, Sweden Phone: +468 16 4022, Fax: +468 16 7715

Science: [http://www.zoologi.su.se/research/janz] Fiction: [http://www.niklasjanz.se] niklas.janz@zoologi.su.se

StonyBrookU EvolutionaryBiology

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution in the Department of Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2011. The program trains students in Ecology, Evolution and Biometry. For information on the program see http://life.bio.sunysb.edu/ee/programs.htm The following faculty are seeking graduate students:

H. Resit Akcakaya http://life.bio.sunysb.edu/ee/akcakayalab/ Stephen B. Baines http://life.bio.sunysb.edu/ee/baineslab/ Michael A. Bell http://life.bio.sunysb.edu/ee/belllab/ Liliana M. Dávalos http://life.bio.sunysb.edu/ee/davaloslab/Welcome.html John G. Fleagle http://www.anat.stonybrook.edu/people/facultypage/fleagle Lev Ginzburg http://life.bio.sunysb.edu/ee/ginzburglab/ Catherine Graham http://life.bio.sunysb.edu/ee/grahamlab/ Jessica Gurevitch http://life.bio.sunysb.edu/gurevitchlab/ Jeffrey Levinton http://life.bio.sunysb.edu/marinebio/levinton.main.html Dianna K Padilla http://life.bio.sunysb.edu/ee/padillalab Joshua Rest http://life.bio.sunysb.edu/ee/restlab/ John J. Wiens http://life.bio.sunysb.edu/ee/wienslab/homepage.html Patricia C. Wright http://icte.bio.sunysb.edu The deadline for receipt of all application materials is January 15, although earlier submission is encouraged to ensure full consideration for available fellowships. For additional assistance, e-mail our Graduate Program Coordinator, Iris Roth, iroth@notes.cc.sunysb.edu

"Liliana M. Davalos" <lmdavalos@gmail.com>

Switzerland BirdEvolution

A PhD position is available at the Swiss Ornithological Institute in Sempach to study ecological and evolutionary aspects of breeding dispersal in birds. The study species will be the little owl (Athene noctua) and the

study area is Württemberg, Germany. This ongoing research project in cooperation with the Max-Planck Institute of Ornithology is funded by the Swiss National Science Foundation.

The project will investigate the individual life history traits, ecological trade-offs and evolutionary processes shaping dispersal behaviour. These remain elusive because dispersing or unreproductive individuals are very difficult to follow. We study dispersal as the interface between individual traits and fates, and the demographic processes and gene flow at a meta-population scale. The meta-population of the little owl in southern Germany is an ideally suited model system for this study. Advanced very high frequency (VHF)tracking technology will be used to track survival and movements of large samples of individuals. Emphasis is on clarifying the effects of ecological factors (such as habitat structure and food availability) and life history variables (such as reproductive success, sex, age) on adult dispersal rates and survival. Under the general hypothesis that variation in habitat quality and reproductive success will cause differential dispersal rates, experiments with food supplementation will disentangle the effects of intrinsic and environmental determinants of breeding dispersal.

We invite applications for a 3-year PhD program from students holding a master's degree in biology. We are looking for a creative and highly motivated biologist with a strong background in behavioural, population, and evolutionary ecology and with a keen interest in doing field work at night, under all weather conditions and working in a team.

Closing date for application is 26 November. The position is envisioned to start January 1, 2011. For more information, please visit our website at http://www.vogelwarte.ch/home.php?lang=d&cap=-mitarbeit&subcap=dipldiss#owlPhD Applications should be received as e-mail attachments to Dr. Beat Naef-Daenzer: beat.naef@vogelwarte.ch Dr. Martin Grüebler: martin.gruebler@vogelwarte.ch

Dr. Martin Grüebler Projektleiter Tel. ++41 41 462 97 22 martin.gruebler@vogelwarte.ch www.vogelwarte.ch Schweizerische Vogelwarte | Seerose 1 | CH-6204 Sempach | Schweiz Station ornithologique suisse | Seerose 1 | CH-6204 Sempach | Suisse Stazione ornitologica svizzera | Seerose 1 | CH-6204 Sempach | Svizzera Swiss Ornithological Institute | Seerose 1 | CH-6204 Sempach | Switzerland

Grüebler Martin <Martin.Grueebler@vogelwarte.ch>

TowsonU AntSystematics

Towson University V Ant Systematics, Evolution and Biodiversity

Seeking masters-level graduate students to participate in on-going studies of ant systematics, evolution, and biodiversity. The LaPolla Lab at Towson University is involved in several ant research projects ranging from revisionary systematics and phylogenetics to biotic inventories and is actively looking to add additional graduate students to conduct independent thesis projects. Students will have the opportunity to conduct both lab and field work in a variety of settings. Interested students should contact Dr. John LaPolla at jlapolla@towson.edu. Deadline for submission of application materials (Fall 2011 admission) is March 15, 2011.

For further information about the Towson University Biology Graduate Program see: http://wwwnew.towson.edu/biologicalsciences/-graduate_program.html John S. LaPolla, Ph.D. Assistant Professor of Biology Dept. of Biological Sciences 8000 York Road Towson University Towson, MD 21252 USA

phone: 410-704-3121 fax: 410-704-2405

"Lapolla, John S." <JLapolla@towson.edu>

UAlabama GreenAlgalEvolution

Graduate students positions in green algal evolution

Teaching/research assistantships are available for MSc or PhD students in the Department of Biological Sciences at The University of Alabama under the supervision of Dr. Juan Lopez-Bautista beginning Fall 2011. Our Laboratory is focused on the systematics, biodiversity and evolution of algae. The University of Alabama is located in Tuscaloosa, AL (50 min from Birmingham).

This opportunity involves participation in an NSF-funded AToL project GRAToL: Assembling the Green Algal Tree of Life. This investigation is aiming to

study the systematics and phylogenetic relationships of green algae, in particular the class Ulvophyceae, using a multi-gene dataset. Students interested in green algal evolution, systematics and phylogenetic analyses are particularly encouraged to apply.

Visit the Department of Biological Sciences in the web at http://bsc.ua.edu/site/index.htm, and the Graduate Program for an application at http://bsc.ua.edu/site/-gradapply.htm Interested students are encouraged to contact Juan Lopez-Bautista (jlopez@ua.edu) for more information.

Juan Lopez-Bautista, PhD Associate Professor Ecology, Evolution and Systematics Section Department of Biological Sciences The University of Alabama 500 Hackberry Lane 425 Scientific Collections Tuscaloosa, AL 35487 Phone 205-348-1791 http://www.as.ua.edu/-phycolab/ jlopez@UA.EDU

UAlaska Fairbanks AvianSpeciation

SEEKING A PhD STUDENT IN THE GENOMICS OF AVIAN SPECIATION, under the supervision of Kevin Winker at the University of Alaska Fairbanks (pending the availability of funding). Students with an MS, demonstrated lab abilities, decent grades and GRE scores, experience with museum specimens, and capable of data analysis and writing are preferred and encouraged to apply.

Alaska is a remarkable state in which to study birds. Situated at the confluence of the Old and New world avifaunas, and with a deep interglacial history of refugia and the Bering land bridge, Alaska's rich avifauna provides a fertile ground for avian studies. The Winker lab is also involved with research in the New and Old world tropics (see the publications associated with this lab here: http://kevinwinker.org/). The University of Alaska Fairbanks is renowned for its strengths in wildlife, ecology, and evolutionary biology research. Fairbanks itself is a great place to live, provided you enjoy winter. Details about the University, the Museum, and the Department of Biology and Wildlife can be found at www.uaf.edu, www.uaf.edu/museum, and www.bw.uaf.edu.

Interested students are invited to send letters of interest, curriculum vitae (including summaries of grades and GRE scores), and the names of references to: Kevin Winker, University of Alaska Museum, 907 Yukon Drive, Fairbanks, Alaska 99775-6960, kevin.winker@alaska.edu.

– Kevin Winker Curator of Birds and Professor University of Alaska Museum 907 Yukon Drive Fairbanks, AK 99775

Kevin Winker <kevin.winker@alaska.edu>

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>

UBarcelona PopulationVariation

Universitat Autonoma de Barcelona Dep of Genetics and Microbiology

We are looking for a student, preferably a biologists, to start a PhD grant in the study of variation and evolution:

-The research will focus in analysis of the patterns of morphological variation in natural populations of different species. For that purpose 3D morphometrics and micro-CTscanning will be used. The project includes also the study of variation in development and between developmental stages.

Programming skills or a willingness to acquire them is required.

The grant is provided by the Spanish ministry of science and innovation for 4 years

For an outline of the group's research:

http://bioinf3.uab.cat/grupgbe/index.php?option=-com_content&task=view&id=64&Itemid=104 The rest of the group works in theoretical evo-devo or genomics

For further inquiries:

isaac.salazar@uab.cat

Genomics, Bioinformatics and Evolution Group

Example article:

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. It has its own "green" campus. It is the university with more PhD students (in proportion of its size) in Spain.

Isaac.Salazar@uab.cat

UBritishColumbia Biodiversity

The Biodiversity Research Centre at the University of British Columbia would like to announce the availability of BRITE Graduate Fellowships available through our NSERC-CREATE Training Program in Biodiversity Research. The Biodiversity Research Centre is a world-class collection of researchers in ecology, evolution, and organismal diversity. See http://-/www.biodiversity.ubc.ca/ for more details about the Centre or http://www.biodiversity.ubc.ca/BRITE/-index.html for details about fellowships. Interested students of any nationality are eligible to apply. Students are encouraged first to contact possible faculty mentors from the Centre (http://www.biodiversity.ubc.ca/-research/pfaculty.html), and mentors will forward names of interested students to the fellowship adjudication committee.

whitlock@zoology.ubc.ca

UCentralFlorida InsectSystematics

Insect Systematics Research at the University of Central Florida

An integrative research program in insect systematics and evolution is being led by Dr. Hojun Song in the Department of Biology at the University of Central Florida (UCF). The Song Laboratory of Insect Systematics and Evolution focuses on the study of an insect order Orthoptera (grasshoppers, crickets, and katydids) and other insects and aims at understanding behavioral, ecological, physiological, morphological and molecular evolution in a phylogenetic framework. Specific research programs include: Phylogenetic systematics of Orthoptera (Insecta), Density-dependent phenotypic plasticity in grasshoppers and locusts, Evolution

of insect male genitalia, Nuclear mitochondrial pseudogenes, and Mitochondrial genomics. The Song Lab is currently supported by funding from NSF (DEB-0816962).

The Song Lab is equipped with modern facilities to conduct diverse areas of research, including collection-based, molecular lab-based, behavioral and field-based studies. Additionally, there are a number of resources available from the Department of Biology at UCF, including the UCF Collection of Arthropods (UCFC), an active research collection with more than 420,000 specimens, all of which are specimen-level databased. It is regionally focused on Central Florida and its taxonomic strengths lie in Hymenoptera and Coleoptera. UCFC has been recently dedicated to its founder Stuart M. Fullerton in recognition of his life-long service to create this amazing collection. Dr. Hojun Song recently joined UCFC as the curator to further develop the collection. More information on the UCFC can be found at http://biology.cos.ucf.edu/bugs and a newly updated website will be available soon.

UCF is located in Orlando, Florida and it is one of the fastest growing universities in the country. Currently, it is the third largest university in the U.S. with a total number of students around 56,000. UCF is striving to become one of the major metropolitan research universities. Cultural diversity, nearby tourist attractions, great foods, and awesome weather are some of the perks of living in Orlando. For more information, please visit www.ucf.edu. The Department of Biology at UCF (http://biology.cos.ucf.edu) is a broad based department with research active faculty in all areas of inquiry within the biological sciences. Prospective students will have ample opportunities to interact with faculty members whose research strengths lie in ecology/evolution/conservation and genetics/cell/development.

The Song Lab is currently recruiting motivated graduate students (MS or PhD) interested in working with Orthoptera in the following areas: systematics (descriptive/revisionary taxonomy and phylogenetics), evolution of male genitalia, and phenotypic plasticity. Funding for graduate students is guaranteed during academic semesters for the duration of graduate program, and summer support is available for the first two years. Research support (supplies and travel) is also available. Additionally, there are very attractive fellowships and scholarships available from the university for exceptional students.

Interested students should visit the lab website at www.schistocerca.org/SongLab and click on "Graduate Students" under "Prospective Students" tab or directly contact Dr. Hojun Song (song@mail.ucf.edu) for further information. The deadline for graduate school application for Fall 2011 is January 15, 2011.

Hojun Song, Ph.D. Assistant Professor Curator of UCF Collection of Arthropods Department of Biology University of Central Florida 4000 Central Florida Blvd. Orlando, FL 32816-2368

song@MAIL.UCF.EDU

UCincinnati EvolutionaryBiol

Graduate Positions in Ecology and Evolutionary Biology at the University of Cincinnati

The Department of Biological Sciences at the University of Cincinnati is recruiting highly talented students wishing to pursue graduate degrees (MS or Ph.D.).

The department is integrative with strengths in Ecological areas such as Behavior (Buschbeck, Jayne, Layne, Polak, Rollmann, and Uetz), Populations and Communities (Cameron, Culley, Lentz, Matter, Maurer, and Petren), and Ecosystems (Buffam, Maurer, and Shann) as well as Ecological and Evolutionary mechanisms at Genetic and Genomic levels (Baucom, Buchholz, Culley, Gross, and Petren). Inter-departmental collaborations promote basic Ecology relating to Landscape Ecology (Buffam, Cameron, Culley, Lentz, and Matter) and Biogeochemistry (Buffam and Shann). Additionally faculty have specialized interests ranging from climate change, invasive species, and co-evolution to nutrient cycling and urbanization.

The department offers competitive support packages for qualified students.

Interested students are encouraged to look at the web pages of individual faculty members and contact them for further information.

http://www.artsci.uc.edu/collegedepts/biology/-fac_staff/byDeptMembers.aspx More information about graduate studies in the department of Biological Sciences can be found at:

http://www.artsci.uc.edu/collegedepts/biology/-grad/application_info.aspx Information concerning Graduate admission at the University of Cincinnati is available at:

http://www.grad.uc.edu/ApplyOnline.aspx – Regina S. Baucom Dept of Biological Sciences 721 Rieveschl

Hall University of Cincinnati Cincinnati, OH 45221 (513) 556-9721 gina.baucom@gmail.com

gina.baucom@gmail.com

UFlorida Evolution SexAllocation

Ph.D. position, University of Florida. Evolution of sex allocation.

The Hoy and Miller labs at the University of Florida, Gainesville, are seeking outstanding applicants for a Ph.D. position to investigate the evolution of sex allocation using parahaploid mites. The production of male or female offspring and the amount of resources allocated to these offspring are important life history decisions and provide an excellent venue for studying natural selection. Metaseiulus occidentalis is a member of an important family of mites (Arthropoda: Chelicerata: Acari: Phytoseiidae) that are effective natural enemies of pest mites in agricultural systems around the world. Females must mate to produce viable eggs, but paternal chromosomes are inactivated and eliminated during early development in embryos destined to result in haploid sons, while daughters are diploid. Work on other mites suggests that sex allocation may be an adaptive decision by females and may vary according to environmental context. This work could potentially have broad applications to both basic and applied research.

The successful applicant will be co-advised by Marjorie Hoy (http://entnemdept.ufl.edu/hoy.htm) and Christine W. Miller (www.millerlab.net) and will have excellent facilities to conduct this research including ongoing technical support in mite breeding. This mite is currently being developed as a genetic model organism, with a variety of inbred and outbred lab lines available as well as molecular genetic tools. Transcriptome and genome sequencing of this species is underway.

A Ph.D. student achieving a University Fellowship will receive four years of guaranteed support, including a competitive stipend. Teaching assistance in an introductory entomology lab for three semesters over the four years is expected.

The University of Florida has excellent expertise in evolutionary biology, genetics, behavior, and entomology and has a highly collaborative atmosphere across departments. Gainesville is a pleasant mid-sized city (http://en.wikipedia.org/wiki/Gainesville,_Florida) in north-central

Florida, with a wide variety of outdoor recreational opportunities and a vibrant cultural life. The Atlantic and Gulf coasts are each within a 90-minute drive.

More information on the UF Entomology and Nematology Department and Graduate Program can be found at: http://entnemdept.ufl.edu/index.html . Applicants should send a cover letter, CV, GRE scores, and an unofficial transcript to Dr. Hoy or Dr. Miller. Promising candidates will then be asked to submit full applications to the graduate program at UF for entry into the program in Fall 2011.

Please send materials or direct email inquiries to:

Dr. Marjorie Hoy, mahoy@ufl.edu, http://-entnemdept.ufl.edu/hoy.htm -or-

Dr. Christine W. Miller, cwmiller@ufl.edu, www.millerlab.net cwmiller@ufl.edu

UFlorida LifeHistoryEvolution

Are you interested in mechanisms underlying adaptive life history evolution, phenotypic plasticity, tradeoffs, and sexual competitiveness? I am currently seeking graduate students to join our research group at the University of Florida (Dan Hahn's Lab, http://-entnemdept.ufl.edu/hahn/lab/). We take an integrative approach to understanding life history plasticity and life cycle evolution in insects that includes combining analyses of costs and benefits in organismal performance, organismal and cellular physiology, functional genomics, and population genetics. Our two current main projects are:

1) Using the famous apple maggot sympatric speciation system to study how seasonal adaptation (overwinter diapause) can drive allochronic isolation and genetic divergence between populations. For this project we will integrate field collections with laboratory physiology, functional genomics, and high-throughput population genetics and QTL analyses to identify the genes and physiological pathways that matter for speciation in Rhagoletis flies and their wasp parasitoids that also appear to be diverging in parallel. This project is a collaboration with Jeff Feder's lab at Notre Dame (http:/-/federlab.nd.edu/) and there are angles for speciation, cascading speciation between hosts and their parasites, seasonal adaptation, stress biology, geographic variation, and adaptation to climate change.

2) Using the Caribbean fruit fly lek mating system to study the effects of oxidative stress on reproductive physiology and performance. Oxidative stress is ubiquitous and can have serious effects on male-male competition, female choice, and life-history tradeoffs. This project will include a mix of lab and field behavior with lab physiology and functional genomics (e.g., gene expression, RNAi, and transgenic overexpression of antioxidants in Caribflies and Drosophila) and will be performed in collaboration with Christine Miller at UF (http://www.millerlab.net/) and Al Handler at USDA (http://www.ars.usda.gov/pandp/-people/people.htm?personid=2278).

Interdisciplinary training at UF could include coursework, research, and interactions across campus including the Department of Biology, the USDA Center for Medical and Veterinary Entomology, the UF Genetics Institute, various departments in the medical school, and more. Tuition, health care, and a competitive salary are included.

Interested students please contact Dan Hahn (dahahn@ufl.edu) right away including a copy of your resume and a short statement of interests and I will be happy to send you papers or talk more about it.

Daniel A. Hahn Assistant Professor Department of Entomology and Nematology University of Florida P.O. Box 110620 Gainesville FL 32611-0620 Ph:352-273-3968 Fax:352-392-0190 dahahn@ufl.edu http://entnemdept.ufl.edu/hahn/lab/index.htm dahahn@ufl.edu

UGeneva PopulationGenetics

PhD Position in Population Genetics and Demographic Modeling

The Laboratory of Molecular Phylogeny and Evolution in Vertebrates, leaded by Dr. Juan Montoya-Burgos, and the Laboratory of Anthropology, Genetics and Peopling History, represented by Dr. Mathias Currat, Section of Biology of the University of Geneva, seek for a PhD candidate with strong interest in evolutionary biology and good skills in population genetics and/or demographic modeling. RESEARCH PROJECT: Biodiversity loss by interspecific hybridization and invasive species. Current global climate changes will impact rainfall regimes resulting in a reduction of river flow, especially in small tributaries and headwaters. As a consequence, freshwater organisms will have to respond by downstream population displacements leading to new interactions among populations and species.

This research project aims at modeling the impact of entropic modifications on the genetic integrity of freshwater organisms and the evolutionary consequences. The fishes of the family Cyprinidae will be used as model organisms as they represent most of the fish biodiversity in European continental waters and because they are particularly subjected to interspecific hybridization. The research program will include two steps: (1) the development of a simple model based on two well studied species inhabiting the river Rhône and which display natural and viable hybrids (Rutilus rutilus X Abramis brama). This model will allow an assessment of the effects on the genetic diversity of the predicted increase of spatial and temporal overlap of the spawning period. (2) Then, the influence of non-native invasive species that compete or hybridize with local species will be added to the model.

Ideal candidates will have an M.Sc. degree in biology with special focus on evolutionary or ecological biology (phylogenetics, population genetics, ecological modeling), should be experienced in bioinformatics and/or programming, with good skills in demographic analyses and/or in population genetics. The position is initially for three years. CLOSING DATE: Open until filled, but application files, including a CV, a letter of motivation, copies of published or in-press papers, and at least one letter of recommendation should be received by 30 of November 2010 to ensure full consideration. The position will start at the earliest possible date. Candidates should indicate in a cover letter when they could take up the position.

Please send application files to: Juan Montoya-Burgos, Dept. Zoology and Animal Biology, University of Geneva, Sciences III, 30 quai Ernest Ansermet, 1211 Geneva 4, Switzerland; or to Mathias Currat, Dept. of Anthropology and Ecology, University of Geneva, 12 rue Gustave-Revilliod, 1211 Genève 4, Switzerland.

For inquiries please contact juan.montoya@unige.ch or mathias.currat@unige.ch

Juan.Montoya@unige.ch

UGeorgia PlantEvolution

The Department of Plant Biology at the University of Georgia in Athens, GA seeks highly motivated Ph.D.

students to join our graduate program in evolutionary biology. Ongoing research in the Department investigates fundamental questions in organismal and molecular evolution using a range of approaches including population and quantitative genetics, evolutionary development, molecular systematics, and comparative genomics.

Graduate fellowships, assistantships, research support and travel grants are available for qualified candidates. Applications are due on December 15th.

More information can be found on the web at:

http://www.plantbio.uga.edu/programs/graduate=-5Fprogram/

Plant Biology-affiliated faculty with evolutionary interests include:

Mike Arnold (http://www.genetics.uga.edu/-people=5Fbio=5Farnold=5Fm.html) Jeff Bennetzen (http://www.genetics.uga.edu/jlblab) John Burke (http://www.theburkelab.org/) Shu-Mei Chang (http://www.plantbio.uga.edu/ ~ chang/chang.html) Katrien Devos (http://www.cropsoil.uga.edu/-personnel/faculty/devos.html) Lisa Donovan (http://-www.plantbio.uga.edu/~donovan/donovan.html) Mark Farmer (http://www.uga.edu/cellbio/farmer.html) Jim Hamrick (http://www.plantbio.uga.edu/-~ hamrick/hamrick.html) Richard Lankau (http:/-/www.plantbio.uga.edu/directories/faculty/-lankau_richard/) Jim Leebens-Mack (http://-www.plantbio.uga.edu/~jleebensmack/JLMmain.html) Wolfgang Lukowitz (http://www.plantbio.uga.edu/-~ lukowitz/Home.htm) Russell Malmberg (http://-www.plantbio.uga.edu/ ~ russell/index.html) Rodney Mauricio (http://www.genetics.uga.edu/mauriciolab) Andy Paterson (http://www.plantgenome.uga.edu/) Kathrin Stanger-Hall (firefly.genetics.uga.edu) Richard Shefferson (http://www.sheffersonlab.com/) Dorset Trapnell (http://www.plantbio.uga.edu/directories/-faculty/trapnell_dorset/) Xiaoyu Zhang (http://-www.plantbio.uga.edu/ ~ xiaoyu/) Wendy Zomlefer (http://www.plantbio.uga.edu/~wendyz/wendyz.html)

Jim Leebens-Mack 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

jleebensmack@plantbio.uga.edu

UGreifswald MyxomyceteEvolution

At the Institute of Botany and Landscape Ecology, Greifswald, Germany, we invite applications for a

PhD position (3 years)

to work within a project funded by the Deutsche Forschung Gemeinschaft (DFG) entitled: Reproductive systems of myxomycetes (slime moulds, amoebae): How does evolution shape the relative proportion of sexual and asexual reproduction in species that are able to do both? We will investigate this question using the acellular slime-moulds (Myxomycetes, Amoebozoa), a group of common and widespread unicellular organisms that have a sexual as well as an entirely asexual life cycle. Both culminate with the formation of macroscopic fruiting bodies. Because they represent the offspring of two parents, the millions of spores released from the fruiting bodies will be a tool to identify which modes of reproduction occur in nature. We will use cell-cycle analysis and molecular tools to investigate the rate of sexual versus asexual reproduction in selected species. New insights into the balance between sexual and asexual reproduction, one of the fundamental questions in biology, will be gained. Prominent publications are expected, in which the PhD student will take part. Requirements The job will combine classical biology (field work, microscopy, cultures), molecular work (sequencing and fingerprint methods), statistics and bioinformatics. You will work in a small team (General Botany and Plant Systematics), under the supervision of Prof. Martin Schnittler and Dr. Anna Maria Fiore-Donno. We are looking for a highly motivated student interested in broad questions in evolution, able to develop molecular methods, showing initiative and able to work independently. To apply, you must have a masters degree in biology, natural sciences or biochemistry and have acquired some experience in molecular methods. Fluency in English is required. We also welcome experience in bioinformatics, such as knowledge of Perl/BioPerl, Linux/Ubuntu; cultivating protists or fungi, or being familiar with Myxomycetes. What is offered Greifswald is a small but expanding city in North-Eastern Germany, on the Baltic Sea. The University is one of the oldest in Germany and is steadily growing, with many facilities for the ca. 13 000 students.(see http://www.uni-greifswald.de/en.html and http://www.greifswald.de/-

en/englisch/tourism.html). The position is paid according to TV-L 13, 50% (plus fringe benefits like contributions to health insurance).The salary should cover cost of living and the rent for a small apartment. There are no university fees. The contract is initially for one year, with the possibility of an extension for up to three years. The Ernst-Moritz-Arndt University of Greifswald, an equal opportunity employer, seeks to promote careers of women and therefore explicitly encourages women to apply. Qualified disabled persons are also encouraged to apply. The position is open to candidates of all nationalities. Application expenses cannot be refunded by the state of Mecklenburg-Western Pomerania. Application Please send a short letter explaining your motivation for this position, curriculum vitae and list of publications (all documents as a single pdf file and in English) by December 7, 2010 to afioredonno6@gmail.com. Do not hesitate to use this address as well forenquiries if necessary. Only complete and relevant candidatures will receive an answer. Interviews (preferably by Internet) will be held in January, selection will be completed by the end of January 2011. Selected candidates may be requested to provide digital copies of certificates and the names of two referees.

afiore-donno6@infomaniak.ch

UHongKong ClimateAdaptation

Postdoc and Graduate position Vacancies in Ecological Demography

The University of Hong Kong is looking to recruit at the postgraduate and postdoctoral levels with projects which seek to understand how wildlife populations respond and adapt to environmental change.

The projects will be based in the Laboratory of Wildlife Demography, School of Biological Sciences, but will involve interactions with other departments in the Faculty of Science and beyond. The projects will combine insights from several disciplines, most notably ecology, evolutionary biology, demography, statistics, and climatology. There will be an emphasis on understanding how changing climatic conditions can affect wildlife population processes. Attention will be given to the ecological consequences of change in not just average temperatures but also in other aspects of climate such as inter-annual variability. The projects will involve analysis and interpretation of long-term wildlife population data, including data on wetland birds. More information can be found at http://www.biosch.hku.hk/-dthomson/home.html . Applicants should have good academic track records with a relevant university degree. The projects will require the ability to develop not just an interest in ecology, but also strong analytical skills and the full range of abilities needed to follow an interdisciplinary research project through to fruition. Versatility and excellent communication will be required as the projects will involve the comprehension, synthesis and presentation of ideas from quite different fields. The University of Hong Kong operates in English, and language fluency is a requirement.

Applications should include a CV with a statement of academic interests and relevant experience, full academic transcripts for all qualifications, a list of any publications, and the contact details of 3 referees. Applications should be submitted by e-mail (apply-wildlife-demography-2010@hku.hk) to Dr. David L. Thomson.

Review of applications will begin right away, continuing until decisions have been made and recommendations on all available positions have been passed to the respective university committees for approval.

Postdoctoral appointments: funding is already available and appointments can commence as soon as possible after a formal offer has been made by the university and once the candidate has been awarded their degree of PhD. Postdoctoral appointments will be of 1 year duration with further extension being dependent on the availability of funding.

Postgraduate appointments (funding already available): in some cases, funding has already been allocated to these projects and appointments can commence as soon as possible after a formal offer has been made by the university and after an appropriate undergraduate degree has been awarded. MPhil appointments can be completed in two years, PhD appointments can be completed in four years though this can be reduced to three if the candidate already holds an appropriate Masters degree.

Postgraduate appointments (funding available in competition): as well as postgraduate positions for which funding is already allocated to the above research line, further scholarship positions are also available from the university in open competition, and strong candidates will receive the necessary endorsement and assistance with that process. That endorsement should be sought now as the applications for those scholarships need to be submitted by 1st December for the main round. There are further clearing rounds in May and September. Those appointments will normally be taken up at the start of the coming academic year after a formal offer has been made and after award of an undergradu-

ate degree. See http://www.hku.hk/gradsch/web/ for more information on postgraduate scholarships.

The University of Hong Kong ranks among the worlds top 25 universities and is recognised as the best university in Asia. Appointments are internationally competitive and the successful candidates will have access to all that is needed to work effectively and live comfortably in Asias world city. Further information is available at http://www.hku.hk . Dr. David L. Thomson Associate Professor School of Biological Sciences University of Hong Kong Kadoorie Biological Sciences Building Pok Fu Lam Road Hong Kong

Tel./Fax (+852) 22990665 Mobile (+852) 66265350 Website: http://www.biosch.hku.hk/dthomson/-home.html

Visit http://www.hku.hk to learn more about why the University of Hong Kong is ranked among the world's top 25 universities and as the best in Asia

"David L. Thomson" <dthomson (at) hku.hk>

UMiami TropicalPlantEvolution

Three-year Graduate Fellowship in Tropical Plant Biology at the University of Miami

The Lisa D. Anness Fellowship at the University of Miami provides three years of competitive stipend (plus tuition waiver) and two years of TA or RA funding, as needed. The holder will be in the University of Miami Ph.D. program in Biology, co-mentored by researchers at UM and the Fairchild Tropical Botanical Garden. Potential research areas include tropical plant systematics, evolution, ecology, eco-physiology, and conservation. The University of Miami is located within a short driving distance to three National Parks and some of the most endangered habitats in the country. Tropical plants abound in gardens, living collections, and natural areas within minutes from the classroom, providing unparalleled opportunities for botanical research.

Details on faculty interests can be found at:

http://www.bio.miami.edu and http://www.fairchildgarden.org.

Applications to the UM graduate program are due December 1, for admission in Fall, 2011. Information on the application procedure is at:

http://www.bio.miami.edu/grad.html –

Barbara A. Whitlock Associate Professor Department of Biology University of Miami Coral Gables, FL 33124 whitlock@bio.miami.edu www.bio.miami.edu/whitlock (305) 284-5412

whitlock@bio.miami.edu

UOregon EvolutionaryBiology

Applications are now being accepted for integrative graduate education in Ecology, Evolution, Development, and Genomics at the University of Oregon (UO).

The Department of Biology and the Center for Ecology and Evolutionary Biology (CEEB) at the University of Oregon seek outstanding applicants for the PhD program. We are looking for highly motivated students who wish to develop high-caliber research programs in any area of ecology and evolutionary biology.

CEEB consists of a dynamic, energetic, and highly interactive group of faculty members, graduate students, and postdocs whose research interests are world-renowned and span traditional disciplines. Particular strengths of the group include molecular evolution, evolutionary genetics and genomics, evolution of development, and microbial, population, community, and ecosystems ecology. CEEB maintains close ties with other research institutes and departments on campus, including the Institutes of Molecular Biology and Neuroscience, the Oregon Institute of Marine Biology, and the Departments of Chemistry, Geography, Computer Science, Geology, and Landscape Architecture. Our integrative approach to research and graduate education is supported by numerous grants, training grants, and fellowships from both federal and privately-funded sources.

The University of Oregon is located in the heart of Eugene, a progressive and very livable city of approximately 200,000 people. Eugene provides many opportunities for intellectual and cultural stimulation, and its location is ideal for the naturalist at heart being within an easy 1-2 hour drive of both the Cascade Mountains and the Oregon Coast. It is consistently voted one of the top ten greenest cities in the U.S.

For more information about CEEB and individual faculty research interests, please see the CEEB website (http://ceeb.uoregon.edu) as well as individual lab websites. For information about graduate studies in the Department of Biology, or to submit an online

application, please see: http://biology.uoregon.edu/-graduate/apply.php/ . The deadline for online applications is December 15, 2010. For specific inquiries about the graduate application process, please contact the Biology Department Graduate Recruiting Coordinator, Lynne Romans (lromans@uoregon.edu).

mstreis@gmail.com

UOtago EvolutionaryBiol

GRADUATE OPPORTUNITIES IN EVOLUTIONARY BIOLOGY AT OTAGO

The Department of Zoology at the University of Otago offers a range of research programs in evolutionary biology. Many of our faculty are also involved in interdepartmental programs in Ecology and Genetics. We invite applications from high-quality motivated students to join our PhD program in Zoology.

Scholarships (competitive), research support, travel/conference support and demonstrating/teaching assistant positions are available for qualified candidates. Applications can be made at any time.

Zoology faculty working on fundamental evolutionary problems include:

Ian Jamieson Conservation Genetics http://-www.otago.ac.nz/Zoology/staff/otago008925.html Martin Krkosek Evolutionary Ecology http://-www.otago.ac.nz/Zoology/staff/otago009352.html Shinichi Nakagawa Behavioral Ecology http://-www.otago.ac.nz/Zoology/staff/otago008929.html Robert Poulin Evolutionary Parasitology http://-www.otago.ac.nz/Zoology/staff/otago008915.html Bruce Robertson Molecular Ecology http://-www.otago.ac.nz/Zoology/staff/otago008933.html Hamish Spencer Population Genetics http:/-/www.otago.ac.nz/Zoology/staff/spencer.html Graham Wallis Evolutionary Genetics http://-www.otago.ac.nz/Zoology/staff/otago008937.html Jonathan Waters Phylogeography http://-www.otago.ac.nz/Zoology/staff/otago008938.html More information on the application process can be found at: http://www.otago.ac.nz/international/-postgraduate/otago002221.html#1 More information on support for international students can be found at: http://www.otago.ac.nz/international/-studentsupport.html Graham Wallis office +64 3 479 7984 Department of Zoology fax +64 3 479 7584 University of Otago home +64 3 455 4048 PO Box 56, Dunedin 9054 courier 340 Great King St Aotearoa-New Zealand email g.wallis@otago.ac.nz

Professor in Genetics http://www.otago.ac.nz/-Zoology/staff/otago008937.html Graham Wallis <g.wallis@otago.ac.nz>

UOtago QuantConservationBiol

PhD Position in Quantitative Conservation Biology, University of Otago, New Zealand

Opportunity exists for one PhD project on the population dynamics and conservation biology of the critically endangered New Zealand takahe. The takahe, Porphyrio hochstetteri, is the world's most critically endangered flightless rail (˜300 individuals) and is supported by one of New Zealand's most intensive and costliest recovery programs. The PhD project will involve the development, parameterization, and analysis of a population model to help focus conservation and restoration efforts. Analysis of the model when subjected to the economic constraints of various management scenarios may help inform the optimization of recovery efforts. The student will be co-supervised by Dr. Martin Krkosek (www.zoology.otago.ac.nz/-pubs/krkosek/MK_Lab.html) and Assoc. Prof. Ian Jamieson (www.otago.ac.nz/threatenedbirdgroup/-Home.html) in the Department of Zoology at the University of Otago. The successful candidate will apply for and receive an Otago Doctoral Scholarship (www.otago.ac.nz/study/scholarships/-postgraduate_scholarships.html) or have other independent funding. Prospective candidates please send letter of interest and cv to martin.krkosek@otago.ac.nz.

Martin Krkosek, PhD

Lecturer Department of Zoology University of Otago www.zoology.otago.ac.nz/pubs/krkosek/MK_Lab.html ph (w): +64 03 479 7991 ph (c):+64 02 152 7991

Martin Krkosek <martin.krkosek@otago.ac.nz>

UOttawa EvolutionaryGenetics

PhD positions (with funding) in evolutionary ecology/genetics

Dept. of Biology, University of Ottawa

The Rundle lab has funding for PhD students interested in pursuing one of several projects including:

- the population genetic responses to selection during a factorial evolution experiment manipulating natural and sexual selection in Drosophila serrata; - the genetic basis of multimodal female mate preferences (wing song and pheromones) in D. serrata; - experimental tests of the conditions favouring sex in the filamentous fungus Aspergillus nidulans; - the alignment of natural and sexual selection using long-term experimental evolution in yeast.

Interested candidates should consult our lab website (http://www.science.uottawa.ca/ ˜ hrund050) for further details. We are located in Ottawa, Canada, a vibrant G8 capital (http://www.ottawa.com/-main_e.shtml). National and international candidates are welcomed.

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

URochester Evolution

Subject: Graduate position: Study Evolution at the University of Rochester

Study Evolution at the University of Rochester

The University of Rochesters PhD program in ecology and evolutionary biology is pleased to announce the availability of positions in several laboratories beginning in the Fall of 2011. Our program investigates a diverse range of topics, with particular strength in the study of speciation, adaptation, symbiosis, selfish genetic elements, and the use of genetic and phylogenetic approaches to address basic questions in biology. Our students investigate these topics using field studies, lab work, and theory, with genetics as a unifying theme.

Training of early career students features laboratory rotations during the first year and a two-year course during which each faculty member leads a module on core topics in ecology and evolutionary biology. All students in our program are offered a competitive stipend, complete waiver of tuition and fees, and benefits. Funding is readily available for international students. Teaching loads for PhD students in our program are relatively light, with many students teaching the minimum of two semesters and no students exceeding one course taught per year.

The University of Rochester is a private research institution located along the banks of the Genesee River at the southern edge of the city of Rochester. Rochester, which was recently ranked among the ten best mid-size cities in the United States for college student life, features a rich cultural environment, an active night life, and easy access to surrounding natural areas.

Interested students are encourage to visit our program's home on the web for additional information and instructions on how to apply: https://blogs.rochester.edu/-EEB/ . Richard E. Glor Assistant Professor Department of Biology University of Rochester RC Box 270211 Rochester, NY 14627-0211 Phone: 585-734-8493 (mobile), 585-276-3346 (office), 585-276-2297 (lab) E-mail: rglor@ur.rochester.edu Web: www.lacertilia.com Address for FEDEX deliveries: Richard E. Glor 213 Hutchison Hall University of Rochester River Campus Rochester, NY 14627

Richard Glor <rglor@UR.Rochester.edu>

USouthFlorida EvolutionaryBiol

The Department of Integrative Biology is accepting applications for students to enter their integrative graduate education program in Organismal Biology, Ecology and Evolution. Our department is committed to train the next generation of graduate students to prepare them for professional success in the fields of biological sciences that mirror our facultyâs expertise, which emphasizes organismal interactions and adaptations to the environment at all scales, from microorganisms to complex plants and animals. Our program of graduate study is designed to foster the development of technical and analytical skills used in existing and emerging fields of discovery. Increasingly, students are given opportunities to include an international experience in their research projects and also be involved in outreach activities. The research and training ongoing in the Department of Integrative Biology contributes to advancements in both basic science and applications to

real world problems.

Application files must be complete and received by the Biology Graduate Office before January 1, 2011 to be considered for Fall 2011 Teaching Positions or the University Graduate Fellowship (see http://-biology.usf.edu/ib/grad/prospective/domesticap/).

Students can pursue a M.S. or Ph.D degree in Biology. Each of the degrees requires a student to identify an area of concentration. The program offers: â M.S. in Biology, Concentration in Ecology and Evolution (EEV) â M.S. in Biology, Concentration in Environmental and Ecological Microbiology (EVM) â M.S. in Biology, Concentration in Physiology and Morphology (PMY) â Ph.D. in Biology, Concentration in Ecology and Evolution (EEV) â Ph.D. in Biology, Concentration in Environmental and Ecological Microbiology (EVM) â Ph.D. in Biology, Concentration in Physiology and Morphology (PMY)

Faculty research interests include: biomechanics and functional morphology; microbial physiology; ecophysiology; marine and freshwater ecology; restoration, population, community and ecosystem ecology; conservation biology; ecological genetics; ecotoxicology; environmental microbiology; gene transfer; genomics; evolution; and response to climate change.

Faculty who are currently accepting students into their laboratories (more information at http://-biology.usf.edu/ib/faculty/):

* Bell, Susan- Marine Ecology * Crisman, Thomas- Freshwater Ecology * Deban, Stephen- Physiology, Biomechanics, and Evolution * Fox, Gordon- Plant Ecology, Conservation Biology, and Population Biology * Harwood, Valerie- Microbial Water Quality * Lajeunesse, Marc- Ecology, Evolutionary Biology and Research Synthesis * Lewis, David- Ecosystem & Landscape Ecology * Martin, Lynn- Ecological Physiology and Immunology * McCoy, Earl- Conservation Ecology * Motta, Philip- Functional Morphology * Pierce, Sidney- Cellular Physiology and Biochemistry * Richards, Christina- Plant Ecological Genomics and Epigenetics * Rohr, Jason- Ecology * Scott, Kathleen- Microbial Physiology and Biogeochemistry * Stiling, Peter- Ecology

“Richards, Christina” <clr@usf.edu>

UToronto Mississauga EvolutionSex

Marc Johnson’s EvoEco lab (< http://www.evoeco.org > www.evoeco.org) is accepting a new Ph.D. student to start in the Ecology and Evolutionary Biology Graduate Program (< http://www.eeb.utoronto.ca > www.eeb.utoronto.ca) at the University of Toronto on the Mississauga campus starting Fall 2011.

I am specifically seeking applicants who would be interested in examining how the loss of sexual recombination and segregation in plants affects genomic evolution. Some of the questions we hope to answer include: How does the loss of sex influence genome-wide patterns of genetic diversity within populations? Do sexually reproducing plants exhibit faster adaptive molecular evolution than asexual plants? Is asexual reproduction an evolutionary dead-end?

Students will have the opportunity to work on an international collaboration and to learn new (second generation) sequencing technologies, bioinformatics tools, and statistical tools for analyzing genomic sequence data.

Interested applicants are encouraged to view the lab web page (www.evoeco.org) and to send me a CV and an unofficial transcript at marc.johnson@utoronto.ca.

Marc Johnson Assistant Professor Department of Biology University of Toronto Mississauga Mississauga ON CANADA

Email: marc.johnson@utoronto.ca

Web: www.evoeco.org marc_johnson@ncsu.edu

UTubingen MicroEvolution

*Ph.D. position in Microevolution *

A Ph.D. position is available at the University of Tübingen within a multidisciplinary graduate school coordinated by the interdepartmental Evolution and Ecology Forum Tübingen. The positions are available for an initial period of two years, starting between October 1st, 2010 and March 1st, 2011. A third year will be granted after an evaluation of the progress made in the first two years.

The programme is entitled */’Morphological variability of organisms under environmental stress/*’ and bridges between disciplines and across spatial and temporal scales. The overarching question deals with the evolution and ecological consequences of morphological variability under environmental stress, with special emphasis on symmetry of organisms. The project includes also

coordinated teaching programme.

The focus of the announced subproject is as follows:

/The role of stress proteins in determining morphological variability in snails under temperature stress/

Contact: Professor Heinz-R. Köhler; Animal Ecophysiology; Dept. of Biology

heinz-r.koehler@uni-tuebingen.de

Applicants are referred to Köhler H-R, Lazzara R, Dittbrenner N, Capowiez Y, Mazzia C, Triebskorn R (2009): Snail phenotypic variation and stress proteins: do different heat response strategies contribute to Waddington's widget in field populations? J. Exp. Zool. (Mol Dev Evol) 312B, 136-147 < http://www3.interscience.wiley.com/journal/-121686082/issue >. Further questions should be addressed to Heinz Köhler.

Candidates should hold a Diploma or M.Sc. Degree in a relevant subject. Candidates should send the following documents _via Email_ to the respective contact person for each project (see above) by November 15, 2010: 1) Statement of interest; 2) Curriculum Vitae; 3) Name & address (Email) of two references.

Heinz Köhler <heinz-r.koehler@uni-tuebingen.de>

UWashington PopulationGenomics

Population Genomics Positions (Graduate Student)

School of Aquatic and Fishery Sciences at the University of Washington anticipates accepting 2-4 graduate students to work on studies of population genomics or genome wide association studies in finfish starting fall of 2011. Number of positions will depend upon the mix of MS and PhD students and approved funding. Skills, or at least a driving interest in, bioinformatics and genomics using NGS are a must. Potential projects include studies of SNP discovery, haploid mapping, genotype-environment interaction, and GWAS using RAD sequencing on salmonids and pelagic marine species. Application procedures are found at: http://-www.fish.washington.edu/graduates/index.html. University deadline for graduate student applications is December 15, 2010.

Interested applicants should contact one of the PIs directly.

Jim Seeb jseeb@uw.edu

Lorenz Hauser lhauser@uw.edu

Kerry Naish knaish@uw.edu

Lisa Seeb lseeb@uw.edu

Jim Seeb <jseeb@u.washington.edu>

UWisconsinMadison InsectGeneFlow

The Laboratory of Dr. Johanne Brunet at the University of Wisconsin-Madison, Department of Entomology is looking for a Master or PhD student to work on a project examining the impact of the landscape on gene flow by distinct insect pollinators. Interests in pollination biology and evolutionary biology are a must and previous research experience in these areas is highly desirable. Preferred starting date is June 2011 although applicants for September 2011 will also be considered.

Information on the Department of Entomology at UW-Madison can be found at:

http://www.entomology.wisc.edu Information on the JF Crow Institute for the Study of Evolution at UW-Madison can be found at:

http://www.evolution.wisc.edu For further information on the research contact Dr. Johanne Brunet at the University of Wisconsin Madison at jbrunet@wisc.edu or 608-265-3587.

For further information on the application procedures contact Sara Rodock at rodock@wisc.edu or 608-262-9926.

Interested applicants are asked to e-mail theStudent Services Coordinator, Sara Rodock (rodock@wisc.edu), the documents listed below (in one PDF file). -cover letter -resume/cv

-Unofficial transcripts

-Names and contact information for 3 references

Johanne Brunet <jbrunet@wisc.edu>

UWisconsinMilwaukee ConservationGenetics

CONSERVATION GENETICS OF PRAIRIE-CHICKENS. A GRADUATE ASSISTANTSHIP is available for a student to pursue a Ph.D. degree with Drs. Peter Dunn and Linda Whittingham at the Department of Biological Sciences, University of Wisconsin-Milwaukee.

We are currently looking for a graduate student to study the introgression of genes following a translocation of prairie-chickens from Minnesota to Wisconsin. The Wisconsin population of prairie- chickens went through a population bottleneck during the late 1950's causing a decrease in genetic variation (Bellinger et al. 2003. Con. Biol. 17:717-724). Through a collaborative project with the WI Dept. of Nat. Resources, birds were moved to Wisconsin to restore genetic variation that was lost during the bottleneck. This project will determine the success of the translocation in restoring genetic variation at neutral and functional (eg, MHC) genes. Support during the academic year is provided by Teaching Assistantships, and in the summer by NSF grant support. More information about our research and graduate studies at UWM can be found at: http://www.uwm.edu/People/pdunn/info.html .

Qualifications: B.S. in relevant field, strong work ethic and motivation, ability to work as part of an interdisciplinary team and strong interest in conservation genetics.

Interested students should send an email detailing their interests, relevant background and GPA and GRE scores by 15 Dec 2010 (preferably asap) to:

PETER DUNN (pdunn at uwm.edu) or LINDA WHITTINGHAM (whitting at uwm.edu), Department of Biological Sciences, P.O. Box 413, University of Wisconsin-Milwaukee, Milwaukee, WI 53201.

pdunn@uwm.edu

UZurich MaternalEffectsBirds

PhD Position in Avian Evolutionary Ecology - University of Zurich

A 3-year PhD position on the causes and evolutionary consequences of prenatal maternal effects in birds is available in Barbara Tschirren's group at the University of Zurich, Switzerland.

The environment a mother provides for her offspring before birth can have significant and long-lasting consequences for her offspring's morphology, physiology and behaviour later in life. Such prenatal maternal effects are therefore considered to be an important mediator of phenotypic plasticity and a major source of variation in evolutionary fitness. Yet, we still know very little about how the environment shapes the adaptive value of maternal effects, and how maternal effects influence the evolutionary dynamics of natural populations.

In this project, we investigate how environmental variation and environmental predictability influence maternal reproductive investment, as well as its consequences for offspring performance, and what role maternal effects play in the adaptation of natural populations to environmental change.

Applicants should have a keen interest in doing experimental work with wild birds in the field (nestbox-breeding great tits, Parus major, will be the main study system), and in performing molecular analyses and physiological assays in the lab. The ideal candidate for this project has a background in evolutionary ecology (or a related field), is highly motivated, creative and independent. A MSc (or equivalent) in biology is required.

The successful applicant will be based at the Institute of Evolutionary Biology and Environmental Studies of the University of Zurich, providing ample opportunities for collaborations and interactions with researchers working in related and complementary fields (http://www.ieu.uzh.ch/index.html). The groups are very international and the working language is English. The student will participate in the PhD program in Evolutionary Biology of the University of Zurich (http://www.evobio.uzh.ch/index.html).

Zurich is a beautiful city that consistently ranks amongst the cities with the highest quality of life. While it offers all the pleasures of living in a bigger city, thanks to it's central location and excellent public transport connections, it is very easy to get out of the city and head for the mountains for outdoor activities such as hiking, climbing or skiing.

Applications should include 1) a cover letter outlining why you want to work on this project, 2) a detailed curriculum vitae, 3) the contact details of two academic referees, and 4) a 1-page summary of your MSc project or undergraduate work. Send the above as a single .pdf file to barbara.tschirren@zooekol.lu.se

Review of applications will start on January 6 2011, but candidates will be considered until the position is filled. Preferred starting date is March 1 2011, but this is to some degree negotiable. For more information, feel free to contact me!

Dr. Barbara Tschirren SNSF Assistant professor Institute of Evolutionary Biology and Environmental Studies University of Zurich Winterthurerstrasse 190 8057 Zurich Switzerland

Tel: +41 44 635 47 77

Barbara.Tschirren@zooekol.lu.se

WashingtonU MicrobialSociality

David Queller and Joan Strassmann are moving to Washington University in St. Louis and are seeking new students interested in studying social evolution (especially microbes) in a superb graduate program. We work primarily on cooperation and conflict in the social amoeba Dictyostelium discoideum. This amazing species has highly altruistic (suicidal) altruism, cheating, kin recognition and more! Compared to more standard social organisms (animals), it has the advantage of a sequenced genome, genetic manipulability, and the ability to do many-generation selection experiments. This allows us to apply and test social evolution theories in new ways, and to uncover genetic mechanisms.

A major reason for our move to Wash U is the graduate program, which is extremely flexible for both students and faculty, with programs reaching across the Biology Department, the Medical School, and beyond. The program in ecology and evolution is highly ranked (#1 in one of the recent NRC rankings). Admitted students are well supported and graduates from the program do well on the job market. You can apply at: http://dbbs.wustl.edu/dbbs/-website.nsf/6c18fc53358d390286256cde00604464/-404f759861d021d6862571d8006bd429?OpenDocument Choose the program in Ecology Evolution and Population Biology (and others if you like, that's part of the flexibility). DEADLINE: DECEMBER 1

For more details of our research program see our webpages at Rice University (http://www.ruf.rice.edu/-~evolve/) but remember that we will be at Washington University next year! You can contact us directly at queller@rice.edu or strassm@rice.edu.

queller@rice.edu

Yale GeographyPhylogeny

The laboratories of Thomas Near and Walter Jetz in the Department of Ecology and Evolutionary Biology at Yale University are seeking to recruit a Ph.D. student to develop research questions integrating species geographic distributions and phylogenetic relationships. One particular opportunity concerns North American freshwater fishes. Clades for which multi-gene time calibrated phylogenies are available or in development include darters (Percidae), sunfishes and black basses (Centrarchidae), minnows (Cyprinidae), and bullhead catfishes (Ictaluridae). Other opportunities include work on select terrestrial vertebrate systems at continental to global scale or macroevolutionary patterns in ray-finned fishes.

Applications for the 2011-2012 academic year are due 15 December 2010. Go to the website http://-/www.eeb.yale.edu/grad/index.htm for details on the application procedure.

Persons interested in applying for this particular set of projects should contact Thomas Near (thomas.near@yale.edu) and Walter Jetz (walter.jetz@yale.edu).

thomas.near@yale.edu

Jobs

ArizonaStateU EvolutionaryGenomics

Faculty Positions in Genomics at Arizona State University

The School of Life Sciences and The Biodesign Institute at Arizona State University invite applications for three tenure-track faculty positions at the level of Assistant Professor in the area of Genomics. We seek outstanding candidates who employ an integrated approach to address fundamental principles in the development, evolution, characterization and diagnosis of health-related disorders. Methods can include theoretical and empirical approaches in population genetics, functional and comparative genomics, bioinformatics, and experimental studies.

Successful candidates will be expected to develop an innovative, extramurally-funded, independent research program, fulfill teaching requirements at both the undergraduate and graduate levels and have a commitment to outreach and service at levels within and outside the University community. Successful candidates will be expected to mentor undergraduate, graduate and postdoctoral students. A competitive start-up package and teaching load compatible with high research productivity will be provided. Arizona State University has made a commitment to accelerating the translation of basic discoveries into practical benefits for society through the construction of state of the art research facilities and the recruitment of world-class faculty. Successful candidates would participate in a university-wide health initiative supported by core facilities for functional genomics and next generation sequencing, functional proteomics, high throughput cellular screen, bioinformatics, high performance computing, and imaging. More information on genomic research opportunities at ASU can be found at http://-genomics.asu.edu . Candidates must have a Ph.D. (or equivalent) in an appropriate field, and a minimum of 2 years of postdoctoral training is preferred. Demonstrated teaching and research excellence is preferred. To apply, send cover letter, your curriculum vitae, three representative publications, separate statements of future research plans and teaching philosophy and interests, and arrange for three letters of reference to be sent to Alan Rawls, Chair, Genomics Faculty Search Committee, School of Life Sciences, PO Box 874501, Tempe, AZ 85287-4501. Electronic applications sent as pdf files to " solsfacultysearch@asu.edu" are preferred. The initial closing date for receipt of applications is January 15, 2011; applications will be reviewed weekly thereafter until the search is closed. A background check is required for employment. Arizona State University is an equal opportunity/affirmative action employer committed to excellence through diversity. Women and minorities are encouraged to apply. For additional information on this position and the School of Life Sciences, please visit http://sols.asu.edu/jobs . Brian C. Verrelli, Ph.D. Associate Professor School of Life

Sciences Arizona State University Tempe, AZ 85287-4501 Tel: 480-965-0398 Fax: 480-965-6899 E-mail: brian.verrelli@asu.edu

bverrell@asu.edu

ArizonaStateU LabTech ConservationGenetics

The Dowling lab in the School of Life Sciences at Arizona State University invites applications for a Research Specialist. The individual will assist with multiple aspects of research focused on conservation of native fishes of the southwestern United States. Applicants are expected to have a B.Sc. degree or higher in biology, with laboratory experience preferred. The principal duties of the individual pertain to the collection and organization of data and lab management. Applicants should be proficient with basic molecular procedures (DNA/RNA extraction, PCR, electrophoresis, molecular cloning, sequencing). Precision and reliability are essential. Duties will also include contributing to lab management such as oversight of undergraduate student workers, safety awareness, ordering, chemical inventories and the repair of minor equipment.

Salary will be commensurate with experience. Additional information on the position and instructions for application are provided at the following web address:

https://hrsa.oasis.asu.edu/psp/asusaprd/-EMPLOYEE/PSFT_ASUSAPRD/c/-HRS_HRAM.HRS_CE.GBL?Page=-HRS_CE_JOB_DTL&Action=A&JobOpeningId=-25450&SiteId=1&PostingSeq=1 Go to job #25450. The closing date is 16 November 2010. If you have any additional questions email me at thomas.dowling@asu.edu.

Thomas E. Dowling Faculty Leader and Professor of Genomics, Evolution, and Bioinformatics School of Life Sciences PO Box 874501 Arizona State University Tempe AZ 85287-4501

Office: 480-965-1626 Fax: 480-965-6899

thomas.dowling@asu.edu

Bonn Programmer MolecularBiodiversity

The Zoological Research Museum Alexander Koenig (ZFMK) has recently established a new Center of Molecular Biodiversity. The ZFMK is a Leibniz Institute that works closely with the University of Bonn and is funded by the Federal State of NRW. The Center of Molecular Biodiversity has been established to foster molecular research spanning from genomics and speciation genetics to phylogenetics and high-throughput barcoding.

The ZFMK invites applications for the position of a Scientific Programmer (E12, TVL-12) as a member of the Center of Molecular Biodiversity Research.

We are looking for a Scientific Programmer to accompany scientific projects of the center by providing help in scripting and programming. We expect the person to develop analysis software and pipelines in tight coordination with the scientists at the center. The position offers the opportunity to participate in biodiversity research and to interact closely with local and international scientists. We offer a multinational environment.

The candidate should have experience in administrating Linux-based computer clusters and excellent knowledge in at least two computer languages, preferentially C++ and Perl. Applicants with a degree in computer science or a related discipline and proven knowledge of English are preferred. Salary and benefits are according to a public service position in Germany (E12, TVL-12). The ZFMK advocates gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference. The contract will start as soon as possible and will initially be restricted to December 31, 2013, with the possibility of an extension up to five years. A favorable review of the first five years can result in a permanent position.

Please send your application, which should include a detailed CV and the names of three potential referees, electronically to Prof. Dr. Bernhard Misof, Head of the Center of Molecular Biodiversity Research: b.misof.zfmk@uni-bonn.de).

The position is open until a suitable candidate has been found.

oliver.niehuis@googlemail.com

ColumbiaU EcolEvolution

ColumbiaU.EcologyEvolution

Columbia University's Department of Ecology, Evolution and Environmental Biology (E3B) invites applications for a Lecturer position in ecology or evolution. E3B represents broad interests in ecology, evolution, behavior, conservation biology, and environmental science and maintains strong links to the American Museum of Natural History, the Wildlife Conservation Society, the New York Botanical Gardens, and the EcoHealth Alliance (formerly Wildlife Trust). We seek applicants who will complement and augment existing expertise in teaching and research. Candidates must be committed to teaching, but also demonstrate an interest in research. Maintaining an active research program using existing departmental facilities and participating in student committees will be encouraged but not required. In addition to teaching at the undergraduate and graduate levels, the successful applicant will oversee E3B's Postbaccalaureate Program. Initial appointment is for one year with renewal up through a third year contingent on successful review.

Candidates should submit a cover letter, curriculum vitae, 2-page statement of teaching and mentoring philosophy and experience, a list of 5 courses the applicant wishes to teach, a 1-page syllabus for one of those courses, and contact information for 3 references.

To apply please visit our online site:https://-/academicjobs.columbia.edu/applicants/-Central?quickFind=3D53965 . Questions about the position may be directed to Dr. Dustin Rubenstein, the chair of the search committee. Screening of applications will begin December 1, 2010 and will continue until the position is filled.

Columbia University is an Equal Opportunity/Affirmative Action employer.

dr2497@columbia.edu

CornellU BioinformaticsProgrammer

Bioinformatics Programmer in Computational Genomics at Cornell University

A bioinformatics programmer position is available in the laboratory of Alon Keinan at the Department of Biological Statistics and Computational Biology at Cornell University, to join a group of investigators using computational approaches to tackle current problems in the analysis of whole-genome data.

The position involve developing and applying computational methods as part of multiple research projects at the interface of human population genomics, human complex disease risk prediction, and the analysis of large-scale sequencing data. Responsibilities include programming, database construction and management, and research-related tasks.

The ideal candidate will have a strong quantitative background involving graduate-level research in computer science, mathematics, physics, or a related field, substantial programming experience involving large data sets, and an interest in working in genetics.

Competitive salaries commensurate with experience and skills will be offered, as well as generous benefits. Visa sponsorship is not available for this position. For further details and application, visit https://cornellu.taleo.net/careersection/10164/-jobdetail.ftl?lang=en&src=JB-10360&job=223689
Alon Keinan, PhD Assistant Professor, Department of Biological Statistics & Computational Biology 102A Weill Hall | Cornell University | Ithaca, NY 14853 ak735@cornell.edu | 607-254-1328 phone | 607-255-4698 fax http://keinanlab.cb.bscb.cornell.edu/ alon.keinan@gmail.com

EarlhamCollege NaturalHistoryMuseum Director

Below is a job ad for a Museum Director position. Evolutionary Biologists are encouraged to apply (the academic backgrounds of acceptable applicants is broad - any "natural history"- related field).

Director, Joseph Moore Museum of Natural History, Earlham College The Joseph Moore Museum at Earlham College invites applications for Director, a fulltime endowed tenure-track academic/administrative position starting in July 2011. The Director's responsibilities include managing the museum's collections, raising funds for continuous museum improvements, maintain-

ing an active research career involving undergraduates, supervising student workers at the museum, teaching one course per year, and providing educational experiences for students both on campus and in the Richmond community.

A PhD in a natural history related field (e.g. Anthropology, Astronomy, Biology, or Geology) and postdoctoral experience, especially in a museum environment, is preferred, although ABD candidates will be considered. Although no previous museum experience is required, the strongest applicants will have experience in curating a natural history museum, including management of collections, staff, and external funds. Administrative management experience, a proven ability to manage budgets, and proven fundraising ability are also desirable. Because of the museum's position in a small liberal arts setting, strong candidates will also have a history of effective teaching and a passion for science education and outreach. Women, underrepresented minorities and Quakers are especially encouraged to apply.

Interested candidates should send curriculum vitae, a statement of teaching philosophy, and a statement of research interests that includes a vision for the museum and undergraduate training, along with the full contact information of at least three references electronically to Dr. Andrew Moore (moorean@earlham.edu). Paper copies may also be sent to Dr. Moore at the Department of Geosciences, Earlham College, 801 National Rd. West, Richmond, IN 47374, (765) 983-1672. Review of completed applications will begin December 15th and continue until the position is filled. For expanded information, please visit Earlham's jobs page at http://www.earlham.edu/jobs . Chris R. Smith Assistant Professor Department of Biology Earlham College 801 National Road West Richmond, IN 47374 USA tel: 765-983-1377

crsmith.ant@gmail.com

Halle Germany LabTech MolEvol

Lab technician in molecular genetics, Halle (Germany)

A technical assistant/lab technician is sought for the newly established group of Robert Paxton lab at the University of Halle, Germany. The lab works with insects in the areas of social evolution, host-parasite relations, conservation genetics and insect pollination, and we make heavy use of molecular genetic techniques. We seek a meticulous, well-organized and motivated computer-literate technical assistant with experience in a wide variety of molecular genetic techniques to support our lab-based research and teaching in these areas. The working language of the lab is English but knowledge of German, or a willingness to learn German, is equally important. This is a full-time, permanent position and, though the start date is flexible, we seek a person to commence as soon as possible. Given the nature of the position, it is only open to an EU National. Halle is a delightful, historical city approximately 2 hours SW of Berlin. The salary is on the standard German technical assistant scale TV-L E6, which translates to approximately Euro 23,000 per annum upwards (dependent on experience).

Further details of the position can be obtained from Robert Paxton (robert.paxton@zoologie.uni-halle.de).

Please post or send applications as a single pdf file, to include:

post reference number N-7187/10, a cv, and contact details of two referees

to Robert Paxton (robert.paxton@zoologie.uni-halle.de) by November 18th, 2010 or by snail mail to:

Natural Sciences Faculty I

Institute for Biology

Zoology/General Zoology

- Prof. Dr. R. Paxton -

Martin-Luther-Universität Halle-Wittenberg

D-06099 Halle (Saale)

Germany

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

LundU EvolutionaryBiol

Dear EvolDir-members,

A tenure-track position in biology "(Associate Senior University Lecturer") is now open to applicants from all different biological sub-disciplines. The candidate should have finished his/her PhD no more than five years before the last date of the application.

This highly attractive position is the first one that is

announced at the newly formed Department of Biology (a merger between Departments of Ecology and Cell- and Organismal Biology) at Lund University (Sweden). The Department of Biology has 300 employees, of which about 80 are graduate students.

Research in the department span many different fields, including animal, microbial, theoretical ecology, plant ecology and systematics, chemical ecology and ecotoxicology, aquatic ecology and marine biology, genetics, microbiology, plant physiology, animal physiology and zoology. Further information about the research and teaching at the department can be found here:

http://www.biologi.lu.se/o.o.i.s/21735 Within the position, there will be room for at least 70 % research, in addition to teaching. The proportion between teaching and research can change over time, and other duties can be included. Initially, the position is limited to four years, but after this time period, but can be made permanent following an evaluation procedure.

Last day for application is December 13 2010. Informal questions for about the position should be directed to the head of the Biology Department Christer Löfstedt (Christer.Lofstedt@ekol.lu.se).

More detailed information about application procedure can be found here:

http://www.science.lu.se/upload/-LUPDF/natvet/Utlysningar/-Utlysningstext_BUL_biologi_eng_101018.pdf Sincerely yours,

Erik Svensson

Professor Department of Biology Lund University SE-223 62 LUND SWEDEN

Phone: +46 46 222 38 19 Fax: +46 46 222 47 17 E-mail: erik.svensson@zooekol.lu.se

Webpage: http://www.zoo.ekol.lu.se/epb/-people-en/es-en/es-en.htm Lab blog: http://-svenssonresearchlaboratory.blogspot.com/ Researcher ID: http://www.researcherid.com/rid/E-8324-2010

Erik Svensson <Erik.Svensson@zooekol.lu.se>

MaxPlanckInst FieldAssist BonoboEvolution

Research Assistant - LuiKotale Bonobo Project

Hiring Organisation: Max Planck Institute for Evolutionary Anthropology

Position Description: I am looking for a field assistant to assist with data collection for my Ph.D. project on female mate choice and mating strategies in bonobos (Pan paniscus) at LuiKotale - a long-term field site near Salonga National Park in the Democratic Republic of Congo. This study is part of an ongoing project and all collected data will be handed over at the end of the appointment; therefore, this position is not suitable for candidates looking to pursue individual projects. The research assistant will be trained on site, and will learn to identify individual bonobos in a habituated community of bonobos. The assistant will work alongside an existing team of personnel, recording detailed behavioural observations and collecting faecal and urine samples. Fieldwork includes long-distance walking through very difficult terrain, and the assistant should be prepared to work long days, sometimes from dawn to dusk, in all weather conditions.

Information about the field site and research activities at LuiKotale is available at http://www.eva.mpg.de/-primat/files/bonobo.htm . This position will provide the successful applicant with an excellent opportunity to gain extended fieldwork experience with detailed behavioural research.

Qualifications/Experience: Essential requirements are: (1) field experience; (2) above average physical fitness; (3) above average resistance to social/psychological stress; and (4) the ability to live in a very remote and basic camp, and work with an international team of students, volunteers and local staff.

Candidates should have: (1) practical and technical skills required for orientation and navigation in the forest (e.g. experience with GPS units and compass reading); (2) strong social skills and patience; (3) high degree of self-motivation and responsibility; (4) respect for local customs. Candidates with field research experience in Africa, behavioural research on primates, and basic knowledge of French will be preferred.

Salary/funding: Salary/funding: 300 Euros/month

Support provided for field assistant (travel, meals, lodging): - Food (a variety of local foods with some western food items) - Lodging (in tents under thatched roofs) at the field site - Airfare and airport tax for one domestic return flight from Kinshasa to the field site - Contribution of up to 800 Euros for an international return flight (reimbursement ONLY AFTER SUCCESSFUL COMPLETION of a 9-MONTH term of appointment) - Expenses for visa (reimbursement ONLY AFTER SUCCESSFUL COMPLETION of a 9-MONTH term of appointment) * Please note that expenses during the stay

in Kinshasa on the way in/out of D.R. Congo cannot be covered by the project.

Term of Appointment: 9 months starting in March 2011

Application Deadline: November 15, 2010

Comments: To apply, please send: (1) a letter of interest/motivation; (2) your CV or resume detailing relevant experience; and (3) names and e-mail addresses of two people who would be willing to provide references to heidi_douglas@eva.mpg.de by the November 15th deadline.

Contact Information: Pamela Heidi Douglas Department of Primatology Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6 04103 Leipzig Germany Telephone Number: ++49 (0) 341 3550 264

E-mail Address: heidi_douglas@eva.mpg.de

Heidi Douglas <highland_chimp@yahoo.ca>

NewMexicoStateU Outreach

NMSU-HHMI Outreach Laboratory Facilitator position is available in the Biology Department at New Mexico State University. Details below and by accessing the NMSU Human Resources posting (Laboratory Facilitator Req#2010008461) http://www.nmsu.edu/-˜personel/postings/professional/16313738.html Questions can be directed to: Dr. Ralph Preszler rpreszle@nmsu.edu

Qualifications: Masters degree in biology, biochemistry, molecular biology, microbiology or related field plus three (3) years of related experience. â Knowledge of advanced genomics and bioinformatics; database computing. â Skills in short-and long-range planning; problem analysis and resolution; oral and written communication; public contact and relations especially with high school science teachers and their students; teaching experience and expertise at the high school or higher education level; molecular biology laboratory techniques. â Ability to qualify for NMSU drivers license; Direct, evaluate, train, and supervise the work of program participants; develop and maintain effective working relationships with high school teachers and NMSU faculty and staff; maintain accurate and orderly records; use independent judgment and initiative; organize and direct activities; analyze and evaluate information; travel extensively.

Examples of Duties: â Develops and implements outreach activities targeted to New Mexicoâs high school science teachers. â Assists with summer outreach activities directed toward providing high school science teachers with an increased knowledge of molecular biology skills and techniques. â Maintain strong working relationships with program participants including high school science teachers. â Supervise, direct, and evaluate work of program participants. â Disseminates information about outreach activities. â Collects outreach assessment data. â Assists with implementation of database for storage of assessment data and provides data management of the assessment database. â Generates assessment reports for all components of the HHMI-NMSU Programs. â Statewide travel is required. â Performs related duties as required.

Benefits Offered: Group medical and hospital insurance, group life insurance, long-term disability insurance, state educational retirement, workers' compensation, sick leave, annual leave and unemployment compensation. Opportunity for educational advancement.

Reply to/Deadline for Applications: Submit a formal letter of interest, current resume, college transcripts and three professional references with names, titles, addresses and daytime phone numbers to- Dr. Ralph Preszler, Attn- Outreach Position, Department of Biology, New Mexico State University, PO Box 30001, MSC 3AF, Las cruces, NM 88003

Review of applications will begin on November 1, 20010 and applications received after this date may be considered. Incomplete application packets will not be considered.

Christin Slaughter HHMI-NMSU Outreach Coordinator - MML Facilitator Department of Biology MSC3AF New Mexico State University PO Box 30001 Las Cruces, NM 88003-8001 (575) 646-2175

Christin Slaughter <hhmi_mml@nmsu.edu>

NorthernMichiganU EvolutionaryBiologist

Note: Individuals with a background and interest in evolution/ecology would be appropriate candidates for this position.

Biology Faculty Position Biologist

Northern Michigan University anticipates filling a tenure-earning faculty position at the level of Assistant

Professor in Biology beginning August 2011. The position requires a Ph.D. or equivalent. We seek a biologist with training in zoology, parasitology, and/or animal disease committed to excellence in teaching and scholarship. The ability to serve as advisor for the preveterinary program is desired. An active research program involving undergraduate and graduate students (M.S.) will be expected. Teaching responsibilities may include comparative anatomy, parasitology, epidemiology, introductory biology and courses in area of specialization.

Application review begins December 10, 2010. The position will be posted until January 3, 2011. Selection criteria can be viewed at http//www.nmu.edu/-biology. For questions or assistance, contact <biology@nmu.edu>. Submit a cover letter, curriculum vita, transcripts and the names, addresses and telephone numbers of three references to https://-employme.nmu.edu . Marquette, MI, is consistently named as one of the top ten places in the nation for quality of life and for raising a family.

NMU is an equal opportunity, affirmative action employer and is strongly committed to increasing the diversity of its faculty.

Application Information Contact: Dr. Patrick Brown, Department Head Department of Biology Northern Michigan University Phone: 906-227-2310 Fax: 906-227-1063 Online App. Form: https://-employme.nmu.edu

Katherine C. Teeter, Ph.D. Assistant Professor Biology Department Northern Michigan University kteeter@nmu.edu

kteeter@nmu.edu

OregonStateU ResAssist

This post has a molecular evolutionary focus - a pedigree analysis comparing hatchery and wild Chinook interaction for adults (& their juveniles) passed over a dam wall into habitat that has been unavailable for over 50 years. Given that this is a very common feature in the southern part of the range for a number of salmon - we're hoping to learn about which habitat genotype associations would make similar efforts more successful.

—

Full time, Faculty Research Assistant, COMES, Oregon State University, Newport, OR. Molecular pedigree analysis comparing hatchery and wild Chinook interactions in new habitats using microsats, SNPs & next generation sequencing. To review job posting and apply, go to http://oregonstate.edu/jobs see posting number 0006522. Please apply by 11-18-2010 . OSU is an AA/EOE.

Michael A. Banks, Director Cooperative Institute for Marine Resources Studies Assosciate Professor, Coastal Oregon Marine Experiment Station Hatfiled Marince Science Center, Department of Fisheries and Wildlife Oregon State University 541-867-0420 (land-line) 541-270-6159 (cell) http://oregonstate.edu/groups/cimrs/- http://marineresearch.oregonstate.edu/genetics/

"Banks, Michael" <michael.banks@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>

Portugal 2 ResTech ChimpanzeeConservationGenetics

2 RESEARCH TECHNICIANS required (field work in Guinea-Bissau for sample collection/chimpanzee faeces and lab work for DNA extraction, PCR and microsatellites genotyping)

Position Description: We seek full-time research technicians at CAPP at the Technical University of Lisbon, Portugal. The positions start December, 2010 (exact start date may be flexible) and currently has funding for 12 months (that may be renewable for 24 months). The technicians will work in the framework of chimpanzee genetic conservation. Tasks are fieldwork for sampling and molecular analyses of samples in the lab.

Qualifications: The successful candidate will be expected to independently perform basic molecular biology techniques such as DNA extraction, PCR, and microsatellite genotyping. A Master's degree in a relevant subject and previous experience performing molecular techniques is required.

Contact: for inquiries and to apply (electronic resume, cover letter, and references - please see attachment for complete info) email Catarina Casanova (ccasanova@iscsp.utl.pt).

Closing Date: Applications will be considered as received until November 26th

Profa. Doutora Catarina Casanova CAPP & CBA ISCSP Pólo Universitário do Alto da Ajuda, Rua Almerindo Lessa 1300-663 begin_of_the_skype_highlighting1300-663end_of_the_skype_highlighting Lisboa Telefone: 21.361.94.30 (ext.3097) Fax: 21.361.94.42 Endereço-electrónico:ccasanova@iscsp.utl.pt

Catarina Casanova, D.Phil CAPP & CBA ISCSP Polo Universitario do Alto da Ajuda, Rua Almerindo Lessa 1300-663 Lisboa PORTUGAL Phone: 00+351+21.361.94.30 Fax: 00+351+21.361.94.42 E-mail address: ccasanova@iscsp.utl.pt

ccasanova@iscsp.utl.pt

SaintLouisU EvolutionaryGenomics

Faculty Position in Ecological or Evolutionary Genomics

Saint Louis University, a Catholic, Jesuit institution dedicated to student learning, research, health, and service, is seeking applicants for a tenure-track faculty position in Ecological or Evolutionary Genetics/Genomics in the Department of Biology. Competitive applicants will have a Ph.D., post-doctoral experience, a record of research productivity, and a commitment to undergraduate and graduate student training. The successful candidate will be expected to establish an independent, extramurally funded research program that applies genetic and/or genomic approaches to fundamental questions in ecology or evolutionary biology. Possible areas of inquiry include but are not limited to: mechanisms underlying the diversification of lineages and adaptive responses of organisms to contemporary environmental conditions. Excellent facilities and a competitive start-up package are provided, and abundant opportunities exist to develop collaborative projects with Saint Louis University researchers and with scientists at the nearby Missouri Botanical Garden, Danforth Plant Science Center, St. Louis Zoo, and local universities. The faculty member will contribute to an undergraduate course in Genetics, a graduate course in the candidate's area of expertise, and/or a general biology course.

All applications must be made online at http://-jobs.slu.edu (Req ID 20100990) and include a cover

letter, curriculum vitae, a research statement, and a statement of teaching experience and philosophy. In addition, please have three letters of reference sent to Dr. Robert Wood, Department of Biology, Saint Louis University, 3507 Laclede Avenue, St. Louis, MO, 63103. Review of applications will begin on 15 December and continue until the position is filled. Additional information on the Department of Biology can be found at http://www.slu.edu/x14762.xml . Saint Louis University is an Affirmative Action/Equal Opportunity Employer (AA/EOE), and encourages nominations of and applications from women and minorities.

Robert M. Wood, Ph.D. Professor and Chair Department of Biology Saint Louis University 3507 Laclede Ave. St. Louis, MO 63103-2010 Voice: 314-977-3904 Fax: 314-977-3658

Robert Wood <wood2@slu.edu>

Smithsonian InvertebrateZoologist

If you might be interested in joining the Smithsonian NMNH community as a research zoologist, please check out the advertisement linked below. And feel free to pass it on.

http://jobview.usajobs.gov/GetJob.aspx?JobID=-91767617&JobTitle=Research+Zoologist&brd=-3876&vw=b&FedEmp=Y&FedPub=Y&x=83&y=-18&jbf574=SM03&pg=2&re=3&AVSDM=2010-10-29+00%3a03%3a00 Cheers, –Allen

Dr. Allen G. Collins - phone: (202) 633-0645, fax: (202) 633-8848 Zoologist, National Systematics Laboratory of NOAA Fisheries Service Curator, Smithsonian National Museum of Natural History MRC-153, P.O. Box 37012, Washington, DC 20013-7012 USA

For FedEx (or other couriers), please use: Smithsonian Institution, MRC 0163, Natural History, West Loading Dock 10th and Constitution Avenue, Washington, DC 20560

"Collins, Allen" <COLLINSA@si.edu>

StonyBrook EvolutionaryStatistics

Assistant Professor in Ecological/Evolutionary Statistics

The Department of Ecology and Evolution at Stony Brook University invites applications for a tenure-track position at the Assistant Professor level to begin in August 2011. We seek a statistical ecologist or evolutionary biologist with broad experience in statistical theory and methods. We especially encourage applications from individuals developing new statistical approaches in these disciplines. The specific research area is open. Possible areas of research could include statistical genetics, genomics and bioinformatics, community and landscape ecology, population dynamics, and morphometrics using approaches including multivariate analysis, Bayesian and maximum likelihood methods, meta-analysis, and spatial statistics, among others. The successful candidate will teach a core graduate course in statistics for students in ecology and evolution and related disciplines, as well as undergraduate courses according to their area of expertise.

The successful applicant for this position will have an outstanding research program and a commitment to excellence in teaching, and will be expected to obtain outside funding. We are a dynamic department in a Tier I, AAU university offering competitive teaching loads and startups. Information about our collegial and diverse faculty and strong graduate training program is available at http://life.bio.sunysb.edu/ee/. Interactions with members of other programs on campus and in the area are strongly encouraged; these include the Consortium for Inter-Disciplinary Environmental Research at Stony Brook, the School of Marine and Atmospheric Sciences, the Departments of Anthropology, Anatomy, and Applied Math, the Genetics Program, Brookhaven National Laboratory, and Cold Spring Harbor Laboratory. The campus is situated close to major marine and terrestrial research sites, including 50,000 acres of legally protected pine barrens and woodlands. Stony Brook is located in eastern Long Island, NY, with extensive farmlands and vineyards, miles of beaches, and easy access to the cultural resources of New York City.

Applicants must have a Ph.D. and a strong publication record; post-doctoral experience is preferred. Applicants should submit CVs and statements of teaching and research interests online at http://-life.bio.sunysb.edu/ee/recruitment.htm. In addition, applicants should have three letters of recommendation sent by email to biostatrefs@life.bio.sunysb.edu or by mail to: Ecological/Evolutionary Statistics Search, Department of Ecology and Evolution, Stony Brook University, Stony Brook, NY 11794-5245 USA.

Applications will be considered as they are received until 12/10/2010.

Stony Brook University is an equal opportunity/affirmative action employer and educator. Women, people of color, individuals with disabilities and veterans are encouraged to apply.

Walter F. Eanes Professor Dept. of Ecology and Evolution Stony Brook University Stony Brook, New York 11794 http://life.bio.sunysb.edu/ee/eaneslab/ weanes@notes.cc.sunysb.edu

SwarthmoreC 1year EvolBiol

EVOLUTIONARY BIOLOGY POSITION

The Department of Biology at Swarthmore College invites applications for a 1-year faculty leave replacement position in Evolutionary Biology at the assistant professor level, beginning September 2011. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education.

Teaching responsibilities include a broadly based, intermediate-level course in evolution with weekly laboratories, an advanced seminar with laboratory in some area within evolutionary biology, and participation in the Department's team-taught introductory course in organismal and population biology.

Applicants should submit a CV and a statement of teaching and research interests, either electronically or as hard copy. Three recommenders should send signed, hard copy of their letters under separate cover:

Dr. Colin Purrington Evolutionary Biology Search, Department of Biology Swarthmore College Swarthmore, PA 19081-1390

All application materials should be received by January 7, 2011.

Ad is at http://www.swarthmore.edu/x31358.xml Colin Purrington <cpurrin1@swarthmore.edu>

UACh Chile 2 Systematics

This is a curricula competition to hire 2 full time and permanent Academic positions, with degree of PhD, assigned to the Faculty of Sciences, in order to support the PhD Program in Systematic and Ecology (SISTECOL; www.sistecol.cl) in the following areas: (1) Marine Ecology, and (2) Plant Biology

Position 1 - PhD possessing consolidate trajectory in Marine Ecology, conducting scientific research demonstrable throughout competitive research grants and publications in highly cited ISI journals. The candidate should work on population dynamics, integrated studies in ecosystems (modeling of productive or altered systems), and/or management of marine bio-resources, and will be hired to perform research and teaching at Institute of Marine Biology (Institute of Marine and Limnology Sciences from 2011).

Position 2 - PhD conducting scientific research in Plant Biology, with emphasis in higher plants, demonstrable throughout competitive research grants and publications in highly cited ISI journals working in some of the following sub-disciplines: ecology, genetics, evolutionary biology, molecular biology, plant-insect interactions, systematic. The candidate should be well trained in modern analytical tools, able to be part of a multidisciplinary research team in ecological and evolutionary sciences, and will be hired to perform research and teaching at Institute of Ecology and Evolution (Institute of Earth Sciences and Evolution).

General Responsibilities for the 3 positions

The academics to be hired are expected to carry out the following activities:

1. Supervision of PhD students, with an active participation in SISTECOL through counseling students and directing PhD theses.

2. Cutting-edge scientific research, through ISI publications, and obtaining national competitive research grants (FONDECYT or similar).

3. Associative scientific research, through national and international cooperation grants.

4. Undergraduate and postgraduate teaching, coordinating courses in their respective areas and collaborating in other courses.

5. Administration, including willingness to participate in committees or work groups, to take academic-administrative positions, and/or to take part in academic management projects.

Application requirements

To be in the possession of the degree of PhD at the moment of being hired, obtained through an accredited program, either national or international.

To pass an exam of Psychological Evaluation

Benefits

Full time contract in an academic category in agreement with their antecedents. Salary in agreement with the academic category the applicant is contracted in. Operational expenses during the first three years of the contract are also included.

Antecedents required for all applicants

To accredit degree of PhD.

To submit a CV and a copy of the 5 most relevant ISI publications to the position they are applying.

Two reference letters issued by remarkable scientists, either Chilean or foreigners.

To explain the motivations for their applications by written.

Availability to start activities from March 1st, 2011.

Procedure for the selection and assessment of submitted antecedents

Antecedents will be evaluated by an ad hoc committee. An academic presentation and/or an interview may be asked to some of the applicants. The antecedents from this process will then be submitted to the final approval of MECESUP 2 with the advising of the Counseling for Advanced Human Capital (Consejo de Capital Humano Avanzado). The University keeps to itself the right of declaring the application deserted either totally or partially, without the obligation to express the reason for such determination.

Deadline for Application: December 22, 2010

Delivery address

Dirección de Personal, Concurso No CD117

Universidad Austral de Chile

PO Box 567

Valdivia

CHILE

Results will be delivered by: January 14, 2011

Name and address of the person responsible

Dr. Christian Figueroa Caro, Instituto de Ecología y Evolución, Facultad de Ciencias, Universidad Austral de Chile, Casilla 567, Valdivia, Chile. Telephone number: (+56) (63) 221 449.

Email: christianfigueroa@uach.cl

Christian C. Figueroa Associate Professor Director Center for Research on Plant-Insect Interactions - iCROP Universidad Austral de Chile Instituto de Ecología y Evolución Casilla 567, Valdivia Phones: +56 63 22 1449 (direct) +56 63 221344 (secretary and fax) www.uach.cl; www.ecolevol.cl; www.icrop.cl

"Christian C. Figueroa" <christianfigueroa@uach.cl>

UAlabama ComputationalBiol

ASSISTANT PROFESSOR Department of Biological Sciences The University of Alabama is among the top academic research institutions in the southeastern United States, and the Department of Biological Sciences is committed to maintaining this tradition of excellence. We currently seek applicants for a tenure-track faculty position at the rank of Assistant Professor in Computational Biology.

All areas of computational biology and bioinformatics will be considered. Applications from candidates with a demonstrated record of developing and/or applying computational approaches to study biological questions in areas including (prokaryotic and eukaryotic) genomics, evolutionary genomics, genetics, cell and molecular biology, and systems biology and a demonstrated interest in collaborative research are especially encouraged to apply. Candidates must have a Ph.D. in the biological sciences or quantitative discipline and postdoctoral experience. The successful applicant will be expected to participate in undergraduate and graduate education and training, and establish an active, externally funded research program. Applicants may contact the chair of the computational biology search committee, Dr. Julie Olson at jolson@bama.ua.edu or 205-348-2633, if additional information is required.

To apply, go to https://facultyjobs.ua.edu, complete the online application (Job # 0804423 COMPBIO), and upload (1) an application letter with a list of at least four references (including contact information); (2) CV; (3) statement of research interests and goals; and (4) statement of teaching interests and philosophy. Consideration of applications will begin December 15 2010, and continues until the position is filled. Prior to the hiring, the final candidate(s) may be required to successfully pass a preemployment background investigation. Additional information on the Biological Sciences Department and the available positions can be found on our webpage at http://bsc.ua.edu The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees

Juan M. Lopez-Bautista Department of Biological Sciences The University of Alabama P. O. Box 870345 425 Scientific Collections Bldg., Tuscaloosa, AL 35487-0345 Ph Office (205) 348-1791; Lab (205) 348-4263/5844 Fax (205) 348-6460 http://www.as.ua.edu/biology/jlopez-bautista.htm jlopez@UA.EDU

UAlabama LabAssist MolSystematics

The Department of Biological Sciences at The University of Alabama seeks a Laboratory Research Specialist to manage the Steven Johnson Molecular Systematics Laboratory (SJMSL). Responsibilities of the Laboratory Research Specialist include management and supervision of SJMSL, which includes billing for lab and/or equipment use, ensuring maintenance of laboratory equipment and lab environment; ordering laboratory supplies and equipment; maintains inventories of reagents, buffers, and laboratory consumables; providing technical guidance training of personnel in techniques used in molecular systematics and population genetics.

Required minimum qualifications: a Masters degree in Biological Sciences or a relevant field and at least 3 years experience with molecular genetics research methods including DNA extraction, PCR, DNA sequencing, and DNA fragment analysis, OR a Ph.D. in Biological Sciences or a relevant field. Ability to effectively communicate and interact with faculty and students required.

Preferred Qualifications: experience with high-throughput molecular data collection and data management and analyses is essential. Applicants must have demonstrated proficiency with up-to-date molecular biology approaches, including standard and alternative methods of DNA extraction, standard laboratory skills for PCR and cloning, gel electrophoresis, DNA sequencing and DNA fragment (microsatellite, AFLP, RFLP) optimization and analysis. Knowledge of automated DNA sequencer usage and troubleshooting is preferred. Must demonstrate familiarity with analyses of DNA sequence and/or microsatellite data. Mac and PC platform proficiency required. Good organizational, time management, and problem solving skills are needed. The ability to perform tasks in an independent, organized, methodical and analytical manner is essential.

For more information see www.bsc.ua.edu/site/ and bsc.ua.edu/site/scf/index.html. For further information, please contact Dr. Phillip Harris at pharris@bama.ua.edu. Closing date is 15 Dec. 2010 (or until filled).

Visit Employment Opportunities at jobs.ua.edu for more information and to apply. Select Search Staff Postings, then Laboratory Research Specialist under Classification Title.

Phillip M. Harris, Ph.D. Associate Professor and Curator of Fishes Dept. of Biological Sciences Box 870345 The University of Alabama Tuscaloosa, AL 35487-0345

Phone: 205-348-1831 FAX: 205-348-6460

pharris@bama.ua.edu

http://bama.ua.edu/ ~ pharris/lab Phillip Harris <pharris@bama.ua.edu>

UCLondon ResTech SexAntagonismQTL

Dear all,

I am seeking to hire a high grade research technician to work on the genetic basis of sexual antagonism in Drosophila melanogaster. The position is funded by a grant from the Natural Environment Research Council to myself and Kevin Fowler and is available from 1st February 2011 (negotiable) for about 25 months.

The post is Grade 7 and for a highly qualified individual to work in an enabling role but with some responsibility and independence. We are looking for somebody who either has experience as a technician or has worked as a researcher. Good molecular biology skills are essential, next-generation sequencing and/or Drosophila experience are helpful.

The official advert is pasted below. For more information and to apply, please visit http://tinyurl.com/-reuter-tech-2011. The application deadline is Wednesday 8th December 2010. Interviews will take place in the week following the deadline.

Best regards, Max

RESEARCH TECHNICIAN (GRADE 7)

Analysing quantitative trait loci of sexual antagonism in fruitflies

A research technician post is available at University

College London to work with Max Reuter and Kevin Fowler on the genetic basis of sexual antagonism in fruitflies. The position is part of a project funded by the Natural Environment Research Council, the aim of which is to identify and characterise quantitative trait loci of sexual antagonism in Drosophila melanogaster. The project combines evolutionary and molecular genetic approaches to fine-map QTL of sex-specific fitness and identify candidate genes underlying sexual antagonism. The post-holder will assist a postdoctoral researcher in phenotypic and molecular analyses and will have primary responsibility for a suite of hemiclonal lines and recombinants. Duties will include fitness assays, genotyping via SNP genomic markers, resequencing of genomic regions of interest, data entry/analysis, insect husbandry and laboratory management. The project will be based in a thriving research group within UCL's GEE. For further information on this project and the group, see http://www.homepages.ucl.ac.uk/-˜ucbtmre/Labsite . This position is an opportunity for a highly motivated, independent and reliable individual who enjoys working in a team. The candidate will need good organisational and research skills and to be positive about using, developing and troubleshooting new methods. Molecular skills are essential. Experience of large-scale experiments with insects and behavioural assays would be advantageous. Education to B.Sc. Hons. level or higher and work experience as a technician or researcher in a relevant discipline is required.

The post is available from 1 February 2011 (negotiable) for up to 25 months, with a starting salary at Grade 7, point 29 on the UCL salary scale: £31,778 (£28,983 plus £2,795 London Allowance).

Application Process: For more information and to apply using the online application process please vitis the post's page on the UCL HR website, accessible through http://tinyurl.com/reuter-tech-2011. It is essential that candidates ensure that their skills and experience meet the post's criteria outlined in the person specification. In case you have difficulties with the online system, plase email Christine Davis (christine.davis@ucl.ac.uk), Divisional Staffing Officer, Faculty of Life Sciences, University College London.

The closing date for applications is Wednesday 8 December 2010, 4pm. Interviews will take place during the week starting 13 December.

Max Reuter

Research Department of Genetics, Evolution and Environment Faculty of Life Sciences University College London 4 Stephenson Way London NW1 2HE, UK

Phone: +44-20-76795095 (internal 25095)

Lab: http://www.homepages.ucl.ac.uk/ ˜ ucbtmre/-Labsite/ Department: http://www.ucl.ac.uk/gee

UHawaii 2 Evolution Genetics

Dear Colleagues

Please see our job below for 2 tenure track positions at the University of Hawaii at Manoa (main campus), open to any taxon. We are not limited to Zoologists, as we are soon to become the department of Biology.

We are looking for Evolutionary biologists and Geneticists who will fit in well with our group here in paradise. Please disseminate widely!

Aloha, Marguerite Butler

FACULTY POSITIONS in Biology Two tenure-track Assistant Professorships

The Department of Zoology at the University of Hawaii (www.hawaii.edu/zoology) is hiring two tenure-track faculty at the rank of assistant professor in the fields of evolutionary biology and genetics. These new colleagues will join the department in a newly renovated research building during a major phase of growth aimed at building strength in evolutionary biology. We are particularly interested in individuals with expertise in phylogenetics or population/quantitative genetics. The study system is open to any biological kingdom. Of particular interest are colleagues whose research programs will capitalize on Hawaii's unique evolutionary legacy or position in the Pacific Rim, as well as individuals who can successfully collaborate across research fields. Teaching responsibilities will include an advanced undergraduate course in either evolution or genetics and a graduate course in the individual's speciality. Applicants must have a PhD, a strong publication record and potential for extramural funding. To apply, please send pdf formatted documents that include a CV, statement of research interests and plans, teaching statement, two publications, and names and contact information (including email address) of three professional references to zsearch@hawaii.edu. For a complete job announcement please refer to http://workatuh.hawaii.edu. Review of applications will begin on December 1 and continue until positions filled. The University of Hawaii is an Equal Opportunity/Affirmative Action institution and encourages applications from women and minority candidates.

Marguerite A. Butler Associate Professor Department

of Zoology University of Hawaii 2538 McCarthy Mall, Snyder 405 Honolulu, HI 96822

Dept: 808-956-8617 Lab: 808-956-5867 FAX: 808-956-9812 http://www.hawaii.edu/zoology/faculty/-butler.html http://www2.hawaii.edu/ ˜ mbutler http://www.hawaii.edu/zoology/ mbutler@hawaii.edu

UHawaiiManoa 2 EvolBiol

Dear Colleagues

Please see our job below for 2 tenure track positions at the University of Hawaii at Manoa (main campus), open to any taxon. We are not limited to Zoologists, as we are soon to become the department of Biology.

We are looking for Evolutionary biologists and Geneticists who will fit in well with our group here in paradise. Please disseminate widely!

Aloha, Marguerite Butler

FACULTY POSITIONS in Zoology Assistant Professor of Zoology

The Department of Zoology at the University of Hawaii (www.hawaii.edu/zoology) is hiring two tenure-track faculty at the rank of assistant professor in the fields of evolutionary biology and genetics. These new colleagues will join the department in a newly renovated research building during a major phase of growth aimed at building strength in evolutionary biology. We are particularly interested in individuals with expertise in phylogenetics or population/quantitative genetics. The study system is open to any biological kingdom. Of particular interest are colleagues whose research programs will capitalize on Hawaii's unique evolutionary legacy or position in the Pacific Rim, as well as individuals who can successfully collaborate across research fields. Teaching responsibilities will include an advanced undergraduate course in either evolution or genetics and a graduate course in the individual's speciality. Applicants must have a PhD, a strong publication record and potential for extramural funding. To apply, please send pdf formatted documents that include a CV, statement of research interests and plans, teaching statement, two publications, and names and contact information (including email address) of three professional references to zsearch@hawaii.edu. For a complete job announcement please refer to http://workatuh.hawaii.edu. Review of applications will begin on December 1 and continue until positions filled. The University of Hawaii is an Equal Opportunity/Affirmative Action institution and encourages applications from women and minority candidates.

Marguerite A. Butler Associate Professor Department of Zoology University of Hawaii 2538 McCarthy Mall, Snyder 405 Honolulu, HI 96822

Dept: 808-956-8617 Lab: 808-956-5867 FAX: 808-956-9812 http://www.hawaii.edu/zoology/faculty/-butler.html http://www2.hawaii.edu/ ˜ mbutler http://www.hawaii.edu/zoology/ mbutler@hawaii.edu

UIdaho Bioinformatics

The Initiative for Bioinformatics and Evolutionary Studies (IBEST) at the University of Idaho is hiring an Assistant Professor in Biology, Math or Statistics. The job ad is below and is intentionally broad to encourage excellent applicants in any IBEST-related discipline. Please distribute to potential applicants and note closing date is coming up soon! We have a vibrant research community here and an outstanding infrastructure for collaborative research.

Assistant Professor in Biological Sciences, Mathematics, and/or Statistics

https://www.sites.uidaho.edu/-AppTrack/Agency/Applicant/-ViewAnnouncement.asp?announcement_no=-10000065144 The successful candidate will hold a 9-month, tenure-track full-time faculty position at the rank of Assistant Professor in the Department of Biological Sciences, Mathematics or Statistics. If appropriate, a joint appointment in two or more of the above departments can be arranged.

CLOSING DATE: Review of applications will begin December 1, 2010 and continue until the position is filled, with priority given to those whose application materials are received by review start date.

MAJOR RESPONSIBILITIES: We seek an outstanding scientist who will conduct research and develop a nationally competitive externally-funded research program at the University of Idaho. Preference will be given to candidates able to contribute to the Initiative for Bioinformatics and Evolutionary Studies (IBEST). The Initiative for Bioinformatics and Evolutionary Studies (IBEST) is an interdisciplinary research

group at the University of Idaho focused on patterns and processes of evolution that occur over comparatively short periods of time. We investigate the relative importance and consequences of mutagenic processes, identify and understand patterns of evolutionary change that emerge during the course of evolution, develop and test models of evolutionary processes, and devise means to analyze large sets of genetic data. IBEST researchers examine evolutionary processes at different levels of biological complexity ranging from studies on the molecular consequences of evolutionary change to the adaptation of organisms on a landscape level. Many but not all of our researchers investigate the evolution of pathogens and parasites, while others investigate the importance of extant genetic diversity within species, speciation, and the phylogeography of species. The hallmarks of IBEST research are the coupling of empirical and theoretical research. We place a high value on interdisciplinary collaborations that blend the expertise of biologists, biochemists, ecologists, evolutionary biologists, mathematicians, statisticians, and computer scientists to examine the underpinnings of evolutionary biology.

MINIMUM QUALIFICATIONS:

Doctorate degree in mathematics, statistics, biology, bioinformatics or a related field. At least one year postdoctoral experience. Knowledge and interest in fundamental aspects of evolutionary ecology and/or population genetics. Evidence of successfully teaching college-level courses. Evidence of an active research agenda. Evidence of potential to acquire external funding.

DESIRABLE QUALIFICATIONS: Ability to collaborate with investigators affiliated with the Initiative for Bioinformatics and Evolutionary Studies (IBEST) and others to develop and test statistical models of evolutionary processes. Evidence of substantive contributions to productive interdisciplinary collaborations. Evidence of successful grant procurement related to the candidate's research interests. For questions, please email: ibest@uidaho.edu

We are especially interested in qualified candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community.

Departments Biological Sciences Department: www.uidaho.edu/biology/ Mathematics Department: www.uiweb.uidaho.edu/math/ Statistics Department: www.sci.uidaho.edu/stat/ Initiative for Bioinformatics and Evolutionary Studies The Initiative for Bioinformatics and Evolutionary Studies (IBEST) is an interdisciplinary group of faculty and students from the biological, computational and mathematical sciences that engage in interdisciplinary research in a supportive and collegial environment. The current strengths of IBEST related to this position include population genetics, molecular phylogenetics, molecular ecology, experimental evolution, stochastic processes, and statistical modeling. IBEST members have access to exceptional computational

— / —

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

ULeicester EvolutionaryAnalysis

Professor of Functional Animal Biology

Department of Biology, University of Leicester, United Kingdom

We are seeking to appoint an outstanding research leader who will also have the opportunity to be appointed as Head of Department. You will have an established well-funded and internationally recognized research programme in Functional Biology defined as the study of whole organism function at molecular, cellular, behavioural or evolutionary levels of analysis. You will also have excellent communication skills, strong leadership qualities, dedication to academic excellence and collegiality, and outstanding administrative skills. You will have a breadth of interest to draw together and direct the activities of our diverse Department, and will have a genuine multidisciplinary approach to biology. Your research programme must complement and integrate with existing research within the Department and should fall within one or both of the following research themes - Genome Science (www.le.ac.uk/-ge/liggs), and Neuroscience and Behaviour (www2.le.ac.uk/projects/neuroweb/neuroscience) Applicants with interests in the Genetic or Neuronal Bases of Behaviour or Systems Biology are of particular interest. A Lectureship will be paired with this post.

Informal enquiries are welcome and should be made to Professor Paul Hart, Department of Biology, by email at pbh@le.ac.uk or by phone at 0046 54 7002299.

"Hart, Paul J.B. (Prof.)" <pbh@leicester.ac.uk>

UMontreal InsectSystematicsBiodiversity

Department of Biological Sciences, UniversitÃ© de MontrÃ©al

Professor in Insect Systematics and Biodiversity

The Department of Biological Sciences invites applications for a full-time tenure-track position as Assistant Professor in Insect Systematics and Biodiversity.

Responsibilities Successful candidates will be expected to teach at all three levels of the curriculum, supervise graduate students, engage in ongoing research and publication, and contribute to the academic life and reputation of the institution. The hired candidate will also act as curator of the Ouellet-Robert Entomological Collection and contribute to the development of the MontrÃ©al Biodiversity Centre.

Requirements â PhD in Biology with a specialization in Insect Systematics and Biodiversity. â Postdoctoral research experience is an asset. â Excellent teaching ability for higher education and ability to use new technology in teaching. â Excellent publication record in international scientific journals. â Able to develop an innovative, competitive world-class research program in Insect Systematics and Biodiversity. â Insect collection management experience desirable and ability to integrate molecular or informatics approaches. â Open to interdisciplinarity and collaboration with department members â Upon arrival, priority to develop an undergraduate course in entomology. â Proficiency in the French Language. The UniversitÃ© de MontrÃ©al is a QuÃ©bec university with an international reputation. French is the language of instruction. To revitalize its teaching faculty, the University is intensively recruiting the worldâs best specialists. In accordance with the institutionâs language policy [http://www.direction.umontreal.ca/-secgen/recueil/politique_linguistique.html], the UniversitÃ© de MontrÃ©al provides support for newly-recruited faculty to attain proficiency in French.

Salary The UniversitÃ© de MontrÃ©al offers a competitive salary and a complete range of employee benefits.

Starting date From June 1, 2011.

Deadline The complete application, including a cover letter, curriculum vitae, copies of three recent publications, a research proposal, and a statement of teaching philosophy and insect collection management, must be received at the address below by January 15, 2011.

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

Bernadette Pinel-Alloul, Director Department of Biological Sciences UniversitÃ© de MontrÃ©al P. O. Box 6128, Station Centre-Ville Montreal, Quebec, H3C 3J7 CANADA

For more information about the Department of Biological Sciences and the MontrÃ©al Biodiversity Centre, please consult the Web sites at: www.bio.umontreal.ca and http://www.biodiversite.umontreal.ca/-index_en.htm . Confidentiality The UniversitÃ© de MontrÃ©al application process allows all regular professors in the Department to have access to all documents unless the applicant explicitly states in her or his cover letter that access to the application should be limited to the selection committee. This restriction on accessibility will be lifted if the applicant is invited for an interview.

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

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

Chris Cameron <ccameron@bms.bc.ca>

UMunich Instructor Evolution

Instructor (full- or part-time)

The section of evolutionary biology at the University of Munich (LMU) invites applications for an instructor (full- or part-time) to organize and teach bachelor- and master-level courses in evolution and related subjects. The full-time teaching load is 18 contact hours per week during the semesters. Teaching may include:

- Introductory evolutionary biology - Molecular and ex-

perimental evolution - Molecular biology for bioinformatics students - Tutorials in statistics for biologists - "Skills" courses (e.g. writing/presentations) for advanced students

Most bachelor courses are taught in German, while master's courses are taught in English, so fluency in both languages is required. The position is available beginning January 1, 2011 and will be paid at the E13 (LfbA) level according to the German salary scale. The position is initially available until the end of 2014, with the possibility of extension.

Although the primary duty is teaching, there is also an opportunity to participate in research projects related to those ongoing in the section of evolutionary biology. For more information, see: http://evol.bio.lmu.de/ A PhD in evolutionary biology (or related subject) is required. Applicants should send a letter of motivation (including teaching experience), a curriculum vitae, and the contact information of at least two personal references, preferably as a single .pdf file, to:

Prof. Dr. John Parsch parsch@bio.lmu.de

The application deadline is Nov. 30, 2010.

The LMU-Munich is an equal opportunity employer with an affirmative action program for the handicapped. Applications from women are encouraged.

parsch@zi.biologie.uni-muenchen.de

UNevada Reno ChairEvolutionaryBiol

Chair, Department of Natural Resources and Environmental Science (NRES) College of Agriculture, Biotechnology, and Natural Resources (CABNR) University of Nevada, Reno (UNR)

The Department of Natural Resources and Environmental Sciences is seeking a Chair that will provide intellectual and philosophical leadership for a strong, productive, and diverse faculty in a multi-disciplinary department offering programs in Environmental Science, Forest and Rangeland Management, Wildlife Ecology and Conservation, and Ecohydrology. The Chair has organizational and administrative responsibilities for all departmental programs including teaching within CABNR and UNR, research and related outreach for the Nevada Agricultural Experiment Station and other extramural supporting agencies, and community education through University of Nevada Cooperative Extension. This is a 12 month, tenured position that reports to the Dean of CABNR.

Qualifications Required: Ph.D. degree in a discipline related to NRES programs. Strong record of scholarly activities, teaching experience at the graduate and undergraduate level, and administrative experience.

Desirable: Knowledge of environmental science and natural resource issues of the western United States including those related to public land management. Familiarity with trends in academic programs of NRES disciplines and ability to work with a multidisciplinary faculty with a solid track record in teaching, research and obtaining extramural funding. Experience with the university land grant mission, and demonstrated ability to develop collaborative relationships with agricultural, natural resource and environmental government agencies, and non-government organizations and stakeholders.

For a complete position description or to apply please go to: https://www.unrsearch.com/postings/8240 . Application deadline 2/1/2011

Marjorie Matocq <mmatocq@cabnr.unr.edu>

UNotreDame EvoDevo

Assistant Professor of Developmental Biology, University of Notre Dame

The Department of Biological Sciences at the University of Notre Dame invites applications for a tenure-track faculty position in the broad area of developmental biology. This position is part of an ongoing hiring initiative that includes positions in mathematical biology, watershed modeling, ecosystem science, physiology, and parasitology. Candidates with research expertise and interests consistent with our growing initiatives in adult stem cell and regenerative biology, cancer biology, evolutionary-developmental biology, and neuroscience are particularly encouraged to apply. The successful candidate is expected to establish a vigorous externally-funded research program that complements a dynamic interdisciplinary research community with existing strengths in cell and molecular biology, infectious disease, ecology, and evolutionary biology. Key research facilities include the AAALAC-accredited Freimann Animal Facility, Notre Dame Integrated Imaging Facility, Harper Cancer Research In-

stitute, Center for Zebrafish Research, Eck Institute for Global Health, Keck Center for Transgene Research, Center for Rare and Neglected Diseases, Center for the Study of Biocomplexity, and Genomics and Proteomics Cores. The successful candidate will also contribute to the undergraduate and graduate teaching mission of the department. The position includes an attractive salary, competitive start-up package, and laboratory space tailored to the applicant's research needs. Information on department and other college faculty and facilities can be found at http://biology.nd.edu and http://science.nd.edu. Opportunities also exist for collaboration with faculty at the adjoining Indiana University School of Medicine-South Bend, http://-/www.medicine.iu.edu/southbend. Review of applications will commence on 15 November 2010 and continue until suitable candidates are identified. Qualified individuals should send in PDF format a cover letter, curriculum vitae, separate statements of research and teaching interests, and three letters of reference to devbio10@nd.edu where queries can also be directed.

The University of Notre Dame, an international Catholic research university, is an equal opportunity employer.

– Hope Hollocher Associate Professor Department of Biological Sciences Galvin Life Sciences University of Notre Dame Notre Dame, IN 46556

Tel. 574-631-4569 FAX 574-631-7413 e-mail: hope.hollocher.1@nd.edu

Hope Hollocher <hholloch@nd.edu>

UppsalaU AnimalConservation

Associate Professor/Senior Lecturer in Animal Conservation Biology (with the possibility of being employed as Professor)

Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University

The position includes teaching at graduate and undergraduate level, research, outreach activities and some administration. The holder of the position is expected to contribute actively to applications for external research grants and to the development of the research and teaching of the department.

In ranking eligible candidates, equal importance will be given to scientific and teaching skills. When judging scientific proficiency special importance will be given to research qualifications within conservation biology, including ecology and genetics with bearing on animal conservation biology.

More detailed information about the position and information about how to apply can be found http://-www.personalavd.uu.se/ledigaplatser/engindex.html

Closing date for application is December 20, 2010

For further information about the position, please contact Professor Jon Agren telephone +46-(0)18-471 2860 or email Jon.Agren@ebc.uu.se

The Evolutionary Biology Centre of Uppsala University offers a vibrant research environment and bridges a broad range of disciplines in the biological sciences. Information about the Evolutionary Biology Centre and the Department of Ecology and Genetics can be found at www.ebc.uu.se

Jon Ågren Plant Ecology/Dept of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D SE-752 36 Uppsala Sweden

Phone: +46-18 471 2860 Telefon: 018-471 2860

jon.agren@ebc.uu.se

UppsalaU EvolutionaryPlantEcology

Assistant Professor/Research Associate in Plant Ecology

Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University

The position includes research, and some teaching within the undergraduate and/or postgraduate programmes in Biology, and supervision of PhD students. The holder of the position is expected to contribute actively to applications for external research grants and to the development of the research of the department. The position can be held for up to four years.

The successful candidate must have a Ph.D. Priority is given to applicants who have completed their PhD within 5 years of the application deadline. In the ranking of eligible candidates, importance will primarily be given to scientific proficiency. In the assessment of scientific qualifications, special importance will be given to research in population ecology and evolutionary plant ecology.

More detailed information about the position and in-

formation about how to apply can be found http://-/www.personalavd.uu.se/ledigaplatser/engindex.html Closing date for application is December 20, 2010

For further information about the position, please contact Professor Jon Agren telephone +46-(0)18-471 2860 or email Jon.Agren@ebc.uu.se

The Evolutionary Biology Centre of Uppsala University offers a vibrant research environment and bridges a broad range of disciplines in the biological sciences. Information about the Evolutionary Biology Centre and the Department of Ecology and Genetics can be found at www.ebc.uu.se

Jon Ågren Plant Ecology/Dept of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D SE-752 36 Uppsala Sweden

Phone: +46-18 471 2860 Telefon: 018-471 2860

jon.agren@ebc.uu.se

UppsalaU PlantConservation

Associate Professor/Senior Lecturer in Plant Conservation Biology (with the possibility of being employed as Professor)

Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University

The position includes teaching at graduate and undergraduate level, research, outreach activities and some administration. The holder of the position is expected to contribute actively to applications for external research grants and to the development of the research and teaching of the department.

In ranking eligible candidates, equal importance will be given to scientific and teaching skills. When judging scientific proficiency special importance will be given to research qualifications within conservation biology, including ecology and genetics with bearing on plant conservation biology.

More detailed information about the position and information about how to apply can be found http://-/www.personalavd.uu.se/ledigaplatser/engindex.html Closing date for application is December 20, 2010

For further information about the position, please contact Professor Jon Agren telephone +46-(0)18-471 2860 or email Jon.Agren@ebc.uu.se

The Evolutionary Biology Centre of Uppsala University offers a vibrant research environment and bridges a broad range of disciplines in the biological sciences. Information about the Evolutionary Biology Centre and the Department of Ecology and Genetics can be found at www.ebc.uu.se

Jon Ågren Plant Ecology/Dept of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D SE-752 36 Uppsala Sweden

Phone: +46-18 471 2860 Telefon: 018-471 2860

jon.agren@ebc.uu.se

UTexasElPaso PlantEvolutionaryBiol

POSITION DESCRIPTION: The Department of Biological Sciences at The University of Texas at El Paso (UTEP) is seeking a Plant Ecologist or Plant Evolutionary Biologist for a tenure-track position at the Assistant or Associate Professor level. The successful candidate is expected to develop a productive research program and mentor and teach both undergraduate and graduate students (M.S. and PhD.) Outstanding applicants in all areas of plant ecology and/or plant evolutionary biology who employ field-based research methods and modern technologies are encouraged to apply. The anticipated appointment date is Fall semester 2011.

The Department of Biology is among the most productive departments at UTEP and contributes to several interdisciplinary programs in Environmental Science, Environmental Science and Engineering, and Bioinformatics. A new Ecology and Evolutionary Biology doctoral program is under review. Areas of faculty expertise span ecological, evolutionary, biomedical, and education research fields. Core facilities include DNA sequencing, real-time PCR, and electron and confocal microscope labs with full time technicians; a herbarium; a green roof; and a greenhouse. The department also manages the 38,000 acre Indio Mountains Research Station in the Chihuahuan Desert. Faculty also conduct research throughout the world and have active research programs in Central and South America, the Arctic and the Congo. More information is available at the Department of Biological Sciences website (http://-/science.utep.edu/biology/).

APPLICATION PROCEDURE: Applicants must have a Ph.D., postdoctoral experience, and a strong record of research accomplishments. Review of ap-

plications will begin immediately and applications will be accepted until the position is filled. Candidates must submit a letter of interest, curriculum vita, statement of research interest, a brief outline of their teaching philosophy, copies of three (3) relevant publications authored or co-authored by the applicant, and contact information for at least three references. Please name your file as follows: <Lastname>_<Firstname>_PlantEcology_<YYYYMMDD>.pdf. Applications should be submitted electronically as a single PDF file to the Search Committee Chair Dr. Craig Tweedie (ctweedie@utep.edu<mailto:ctweedie@utep.edu>) with the subject line: "<Lastname> Plant Biology Faculty Application."

The University of Texas at El Paso is an Equal Opportunity/Affirmative Action employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, genetic information, veteran status, or sexual orientation in employment or the provision of services. Women and minorities are encouraged to apply.

Max Shpak, Assistant Professor Department of Biological Sciences University of Texas at El Paso El Paso TX 79968 (915) 747-8903 (915) 747-5808 (FAX) mshpak(at)utep.edu

"Shpak, Max" <mshpak@utep.edu>

UWesternOntario MolEvolBioinformatics

We invite applications for a position in "Molecular Evolution and Bioinformatics" in the Department of Biology at the University of Western Ontario. UWO is a prominent Canadian university of 32,000 undergraduate students, with approximately 150 graduate students in the Department of Biology. It is located in London, Ontario (Canada), which is a family oriented mid-sized city within a short drive of Toronto and three of the Great Lakes. The formal ad is below.

Assistant Professor in Molecular Evolution and Bioinformatics

Applications are invited for a probationary (tenure track) faculty position at the rank of Assistant Professor in the area of Molecular Evolution and Bioinformatics in the Department of Biology, Faculty of Science, at The University of Western Ontario (www.uwo.ca/biology) starting July 1, 2011. Candidates must have a Ph.D. in Biology or a related field and postdoctoral experience (or equivalent). The successful candidate will be expected to develop an independent, externally-funded research program in Molecular Evolution and Bioinformatics, motivated by questions in Biology, and contribute to the graduate and undergraduate degree programs in Biology. Molecular Evolution and Bioinformatics represents an integral link between the Departments existing research strengths in molecular and evolutionary biology, genetics and developmental biology, and the successful candidate will complement these. The Department of Biology and Faculty of Science provide a research-intensive environment including state-of-the-art computational (www.sharcnet.ca), laboratory and field facilities. Consideration of applications will begin February 01, 2011 and continue until the position is filled. Applications must include a curriculum vita, a statement of research interests, a statement on teaching philosophy, and the names of three references. Applications, submitted electronically as a single pdf file to molevobi@uwo.ca should be addressed to the attention of:

Dr. Mark Bernards, Chair Department of Biology The University of Western Ontario

This position is subject to budgetary approval. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Western Ontario is committed to employment equity and welcomes applications from all qualified women and men including visible minorities, aboriginal people and persons with disabilities.

Dr. Amanda J. Moehring Department of Biology B&GS 2080 The University of Western Ontario London, ON N6A 5B7 Canada

Phone: 519.661.2111 x85596 Fax: 519.661.3935 amoehrin@uwo.ca

Amanda Moehring <ajmoehring@gmail.com>

UWisconsinMadison EvolutionaryEcol

Associate Scientist - Evolutionary Ecology

Trophic interactions, global change, chemical ecology,

"genes to ecosystems" ecology

An Associate Scientist position (PVL# 65957) is available with the Lindroth Research Group at the University of Wisconsin-Madison. The "Scientist" track at UW-M is similar to "Research Faculty" tracks at other universities. Research in the Lindroth group spans a diverse array of disciplines in evolutionary ecology, including plant-herbivore interactions, global environmental change, and "genes to ecosystems" ecology, with chemical ecology as the nexus. For more information about the group, see: http://entomology.wisc.edu/~lindroth/ Principal responsibilities: The Associate Scientist will provide intellectual leadership, supervision and mentoring to a productive research group consisting of postdoctoral, graduate and undergraduate students. The Scientist will coordinate and direct a diverse portfolio of research activities, provide analytical chemistry support, analyze data, and prepare manuscripts. Finally, the Scientist will develop new research initiatives and collaborations, write competitive grant proposals, and provide written annual reports for funded research projects.

Qualifications: Ph.D.; postdoctoral experience strongly preferred. Knowledge of and experience with chemically-mediated evolutionary/ecological processes; strong writing and statistical skills. Must have exceptional organizational and communication/interpersonal skills, and demonstrated record of publication. Grantsmanship experience preferred.

Salary and benefits: Salary commensurate with experience. Excellent medical/dental health plans and retirement savings plans available at minimal cost. Position start date is March 1 - June 1, 2011.

University and Town: The University of Wisconsin-Madison is a premier institution for research in ecology and has ranked among the top five research universities in the United States for each of the past 20 years. UW-Madison ranks first in research expenditures among public universities. Madison is the capital city of Wisconsin, and consistently ranks among the best cities in the U.S.A. for work, education, family and leisure activities.

Application: To ensure consideration, application must be received by January 15, 2011. Send a single pdf document, including a letter specifically detailing your fit to the position (PVL# 65957), c.v., statement of research interests, names/addresses of three references, and representative reprints to:

Ms. Sheila Timme Academic Department Manager smtimme@wisc.edu

UW - Madison is an equal opportunity employer

Richard L. Lindroth, Ph.D. Professor of Ecology and Associate Dean for Research

608-262-6792 (Deans office) 608-263-6277 (Lab office) 146 Agriculture Hall 1450 Linden Drive University of Wisconsin-Madison Madison, WI 53706 U.S.A.

Rick Lindroth <lindroth@wisc.edu>

UWisconsin Madison SystemsBiology

Assistant /Associate / Full Professor SYSTEMS BIOLOGY Wisconsin Institute for Discovery University of Wisconsin-Madison

The University of Wisconsin-Madison seeks to fill three tenure-track faculty positions in Systems Biology. Areas of interest include:

(i) Quantitative Biology - development and application of novel experimental measures of biological entities (e.g., molecules, viruses, microbes), including their levels, functions, activities, and interactions;

(ii) Computational Biology - integration of diverse -omic' and other data to advance predictive models of how viruses, microbes, and/or multi-cellular organisms function and interact; and

(iii) Evolutionary Biology - development of experimental, mathematical and/or computational approaches to better understand how viruses, microbes, and multicellular organisms evolve and coevolve. Areas of special interest encompass: virus-host and microbe-host interactions, innate and adaptive immunity, and ecological and evolutionary dynamics.

Successful candidates will occupy space in the Wisconsin Institute for Discovery (WID), a new state-of-the-art and centrally-located research facility designed to spark and support cross-disciplinary collaborations (see discovery.wisc.edu).

WID is the public half of an exciting public-private pair of Institutes that will advance basic research and facilitate the translation of discoveries to promote human health. Openings are available, and candidates are encouraged to apply immediately for appointments starting in 2011. Candidates must have a PhD or MD in a relevant field; post-doctoral experience is preferred but not required. Senior applicants must have demonstrated excellence in research, teaching, and service. Successful candidates will be appointed to the academic

department of the University that best matches his or her experience and interests. Relevant departments include (but are not limited to): Bacteriology, Biochemistry, Biomedical Engineering, Biostatistics & Medical Informatics, Botany, Chemical & Biological Engineering, Chemistry, Computer Sciences, Genetics, Mathematics, Medical Microbiology & Immunology, Oncology, Pathobiological Sciences, Physics, Statistics, and Zoology. Faculty will be expected to develop a vigorous, independent research program; attract and maintain extramural funding for his/her research program; teach undergraduate and/or graduate courses; develop new course(s) in his/her area of expertise as appropriate; supervise graduate and postgraduate research; participate in faculty governance activities in the department, college and/or University; and actively engage with the national and international scientific community.

Please submit a curriculum vita and concise statement of research and teaching interests on-line at newfac.sysbio.discovery.wisc.edu. Three letters of recommendation will also be required through the online service directed to: Chair, Faculty Search Committee, Systems Biology Theme, Wisconsin Institute for Discovery, University of Wisconsin-Madison, USA.

The University of Wisconsin is an equal opportunity affirmative action employer; applications from qualified women and minority candidates are encouraged. Unless confidentiality is requested in writing, information regarding the identity of the applicant must be released on request. Finalists cannot be guaranteed confidentiality. A background check may be required prior to employment.

Carol Eunmi Lee, Ph.D. Associate Professor Center of Rapid Evolution (CORE) 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

https://mywebspace.wisc.edu/carollee/web/Lee/-Lee.html carollee@wisc.edu

Yunnan China TreeComparativeGenomics

FACULTY POSITION in Comparative Genomics of Tropical Trees at the Associate Professor level in the Chinese Academy of Sciences, based in the Xishuangbanna Tropical Botanical Gardens, Yunnan, China.

The Ecological Evolution group at the Xishuangbanna Tropical Botanical Garden (XTBG), Yunnan invites applications for a full-time faculty position in the comparative genomics and evolutionary biology of tropical trees. The Ecological Evolution group was established at XTBG in 2007 by Dr. Chuck Cannon and has rapidly grown into an international team of researchers and postgraduate students with numerous collaborations with Chinese and international organizations. This position is one of three faculty positions in the research group and has a four year term. We recently moved into a new research facility in the gardens and we plan to expand our bioinformatic and genomic analytical capacity with this new hire. We currently have a genomic sequence data from the Illumina platform for several groups of tropical trees:, including numerous species of figs (Ficus) and tropical stone oaks (Lithocarpus). Our research into the comparative genomics of tropical biodiversity is supported by grants from the Chinese Academy of Sciences and the Yunnan provincial government. XTBG is part of the Chinese Academy of Sciences (CAS), through which these appointments will be made. Please visit the garden's website at < http://en.xtbg.ac.cn/ > for more information about XTBG. Please visit our website < www.ecologicalevolution.org > for more information about our activities and personnel.

Highly qualified candidates pursuing research in any of the following or related areas are encouraged to apply: genomic scale analysis of population variation; bioinformatic approaches for comparative genomics and marker discovery; and biogeographic and ecological studies of plant trait evolution. The candidate's responsibilities, along with their independent research, would include: the development of postgraduate training and research; the development of international collaboration with universities and institutions in Southeast Asia; obtaining external funding; and publication in leading international journals. The successful candidate will benefit from CAS's established research programs and field stations. XTBG has strong cooperative relationship with the local and provincial governments and surrounding countries in developing important and compelling collaborations. The faculty at XTBG is internationally recognized and currently expanding < http://en.xtbg.ac.cn/ju/201010/-P020101020360214472206.pdf >.

Candidates with a strong record of accomplishment should submit a CV, statement of research interests/plans, and pdfs of two publications. Please include three potential references who could provide letters of recommendation. Send these material to Dr. Chuck Cannon <chuck@xtbg.ac.cn> and Ms. Liu Zhiqiu

<lzhq@xtbg.org.cn>.

chuck.cannon@gmail.com

Other

Advice public presentation

Dear Evoldir Colleagues,

I teach the Evolution class in my department, and the Secular Student's Alliance on my campus has asked me to give a presentation on evolution in January. The presentation will be open to the public. I don't know what to expect with respect to whether there will be creationists there and, of more to the point, how rabid they will be.

I'd appreciate any advice or pointers from anyone who has given similar public talks as to what I might expect and what I should be prepared for.

Thanks in advance.

-Leah

– Leah Larkin, Ph.D. Assistant Professor Department of Biological Sciences University of the Pacific 3601 Pacific Avenue Stockton, CA 95211 (209) 946-2182 (Office)

llarkin@pacific.edu

Commercial microsatellites answers

Dear EvolDir people,

Many, many thanks to all that sent information and recommendations for my inquire about microsatellite primers commercially designed.

I have summarized the information I received :

(1) The Savannah River Ecology Laboratory in USA was mentioned several times and it really is the best price/product option. They use 454 sequencing following the enrichment step, producing a large number of primers : http://www.srel.edu/microsat/ Microsat_DNA_Development.html

(2) Other companies were mentioned: Genetic ID Services, but they do not yet have 454 sequencing: http://www.genetic-id-services.com/ Microsynth (www.microsynth.ch) Genetic Marker Services, a microsatellite development service based in the UK (www.geneticmarkerservices.com). This one still has

elevated prices

(3) The general overview was to have 1/8 to 1/2 of a 454 plate (depending on the number of sequences-total primers needed) done through the commercial company of choice; doing multiple species is a good idea at not much extra cost. With the many (tousands) of reads (sequences) obtained, one can then perform 'at home' the identification and design of primers using free software (msatcommander the most recommended) and continue with the testing of polymorphism and amplification, as the cheapest way to go.

See below:

- You could have 1/4 of a plate of 454 done for each of the species, and then use msatcommander to identify and design primers. Macrogen has competitive prices on pyrosequencing, but shop around as many universities have a fee for service too, and may be cheaper. When you shop around, make sure they guarantee a certain number of sequences, or bases, as that will give you some indication as to how confident they are in their service. Contact them, and talk about your problem, I am sure you can get the sequencing done for a fraction of the 24K, and a 1/4 plate each species should yield you enough sequences to obtain at least 10 loci (I wouldn't be surprised if you managed to get more).

- If you have no sequence data, you need to get that and there will be your biggest cost. We used 1/2 of a 454 plate using DNA from 2 individuals (1/4 plate each) (~$5000 a year ago but probably less now). You may be able to get away with 1/8 plate for each species if you only need 10 microsats. Once you have the sequence data, there are free programs that will search the sequence and identify repeats. Then, it is just a matter of testing them in several individuals to see if they are polymorphic. We had about a 60% success rate so if you designed 20 primer sets, you should get at least 10 good ones. I would guess that the costs would be closer to $7000 including the sequencing, primers, and testing.

- We have used 454 sequencing and done the searches and primer design ourselves, which is quite easy with free software (msatcommander) and the searching process for candidate microsatellites took us about a week. The more time-consuming part is testing the primer pairs to ensure they amplify and then screening samples of individuals to assure polymorphism, allele size ranges, and lack of null alleles. Our initial 454-sequencing was conducted with several individuals combined in each DNA sample and and the three DNA samples were fragmented, coded and multiplexed. The sequencing cost was about $4100 USD and used 1/4 plate. We got approximately 250,000 reads with an average length between 400 and 500 bp and from this we were able to find several thousand candidate di-, tri-, and tetra-nucleotide microsatellites with forward and reverse primers. We ordered 40 primer pairs and about 75% of them amplify and so far about one- quarter of them microsatellites amplify in three putative species and are polymorphic in at least two of them

- You could have 1/4 of a plate of 454 done for each of the species, and then use msatcommander to identify and design primers. Macrogen has competitive prices on pyrosequencing, but shop around as many universities have a fee for service too, and may be cheaper. When you shop around, make sure they guarantee a certain number of sequences, or bases, as that will give you some indication as to how confident they are in their service. Contact them, and talk about your problem, I am sure you can get the sequencing done for a fraction of the 24K, and a 1/4 plate each species should yield you enough sequences to obtain at least 10 loci (I wouldn't be surprised if you managed to get more).

(4) Several papers were included that describe 454 sequencing used to develop microsatellite primers, which are of great help!!

— / —

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

Drosophila hypercapnic lines

Dear Evoldir,

Available immediately to a good home or for possible collaborative projects: 4 control and 4 hypercapnic-evolved populations of D. melanogaster from a 40+ generation evolution experiment.

Hypercapnic populations have been housed continuously (i.e. throughout their life cycle) in a mixture of 99% air and 1% CO2, control populations under the same conditions but in 100% air. All were derived from a common lab-adapted and outbred stock. No previous work has been done on these populations.

For additional details contact Howard Rundle (hrundle@uottawa.ca).

Cheers, Howard

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

Eeelbase transcriptome

Dear Evoldir member,

This message is just to let you know that Eeelbase, the European eel transcriptome database, is on line (http://compgen.bio.unipd.it/eeelbase). The paper describing the database and the first high-throughput transcriptome analysis for the endangered eel (Anguilla anguilla) has been published on November 16th (http://www.biomedcentral.com/1471-2164/-11/635). This is the first result of a collaborative effort-between researchers from University of Padova, KULeuven, Aarhus and Laval (now forming the virtual Anguilla Genome Consortium or AGC).

EeelBase is freely available and will be updated 1-2 times a year, each time significant novel data is generated. Considering the multiple factors potentially involved in the decline of the European eel, including anthropogenic factors such as pollution and human-introduced diseases, the resources presented here will provide a rich source of data to discover and identify new genes, characterize gene expression, as well as for identification of genetic markers scattered across the genome to be used in various applications (conservation genetics, genetic stability, functional analysis, reproduction, etc...).

We hope this new resource will be of broad use amongst scientists. Don't hesitate to contact us (see contacts at the links provided) if you would need additional information.

Sincerely,

The Anguilla Genome Consortium members

Evolution practical exercise

Dear all,

I am teaching a second year Evolution course and need a practical to show an aspect of Natural or Sexual Selection to take up to 3 hours. It can involve live animals and preferably will involve the students actually measuring something and obtaining data.

Any suggestions would be gratefully received.

Thank-you,

Judith

j.e.lock@soton.ac.uk

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>

Ghana volFieldAssist BirdEvolution

* BIRD FIELD ASSISTANT, Ghana *

A volunteer is needed to study wintering ecology of Pied flycatchers in Ghana, West-Africa from 1 febr V (beginning/mid) April 2011. This expedition is part of a project of the University of Groningen within the Climate Change Ecology group of Dr. Christiaan Both in which we study the possibilities and constraints in life-cycle adaptation of long distance migrants to climate change. Our study species, the Pied flycatcher Ficedula hypoleuca spends an important part of the annual cycle on the wintering grounds in sub-Saharan Africa, like many other Palearctic migrants. However, very little is known about how timing of migration depends on environmental conditions on the wintering grounds or whether these conditions carry over to affect individual survival or performance later in life.

We seek an adventurous and enthusiastic volunteer to complete our research team (3-4) for this winters expedition to help studying the ecology and spring departure of Pied flycatchers at the sub-Saharan wintering grounds. We plan to visit at least two (woodland) areas in the Savanna zone in Ghana. Fieldwork will include: mist-netting, (color)banding, biometric measures, blood sampling, transect bird surveys, insect sampling, foraging behavior observations, color ring reading (with binoculars & scope) and data entry. The applicant should be willing to spend long hours in the field (under hot weather conditions!) and have good social skills. Experience in handling birds, mist-netting, ringing OR being a keen fieldworker is re-

quired. All participants will work usually 6-7 days a week. Although the work focuses on Pied flycatchers, many other cool (resident) bird species will be seen and caught during the fieldwork! We provide housing, field equipment and local transport. Volunteers must pay own airfare and food expenses (3-4 Euros per day). A refund of flight cost might be possible (depending on pending grant applications).

To apply, please send a resume/CV (relevant details only), a cover letter (interests, career goals, relevant experience for the position and availability) and two references with e-mail addresses to:

Janne Ouwehand

PhD Student Animal Ecology Group Centre for Ecological and Evolutionary Studies University of Groningen PO Box 14, 9750 AA Haren The Netherlands

Email: J.Ouwehand@rug.nl Office : +31 50 363 2298

For further info see:

http://www.rug.nl/staff/j.ouwehand/index AND http://www.rug.nl/biologie/onderzoek/-onderzoekgroepen/dieroecologie/onderzoek/-researchstudies/ We will begin reviewing applications from 15th December 2010 and continue until position is filled.

Janne Ouwehand <janneouwehand@gmail.com>

London MedawarLecture Dec15

Dear all,

The London Evolutionary Research Network (LERN) is pleased to announce this year's annual Medawar Memorial Lecture, by Prof. Robin Dunbar (Oxford University).

Robin is the director of the Institute of Cognitive and Evolutionary Anthropology at the University of Oxford, and will be talking about 'Family, friends and the brain'.

This lecture is free to all and will take place at University College London, UK (Gustave Tuck LT, Wilkins Building) at 6:30pm on Wednesday 15th December 2010.

For more details, please visit: http://-londonevolutionarynetwork.wordpress.com/category/-medawar-lectures/medawar-lecture-2010/ Kind regards,

Peter Heintzman

Peter D. Heintzman, MSc

PhD in Molecular Palaeobiology

'Phylogeography of Quaternary North American Beetles and Eurasian Giant Deer: an Ancient DNA Approach' Supervisors: Dr. Ian Barnes & Prof. Scott Elias

Bourne 5-17, School of Biological Sciences Royal Holloway, University of London Egham, TW20 0EX, UK

Tel: +44 (0)178 444 3769 E-mail: Peter.Heintzman.2009@rhul.ac.uk<mailto:Peter.Heintzman.2009@rhu Web: http://personal.rhul.ac.uk/-puba/065/ Web (lab): http://-www.palaeogenetics.com/ "Heintzman, Peter (2009)" <Peter.Heintzman.2009@live.rhul.ac.uk>

Looking for PspAI

I'm desperately looking for a restriction enzyme PspAI that seems to by discontinued by several companies I know from Europe.

Anyone knowing where to buy PstAI please inform me kalevi.trontti@helsinki.fi

Thank you!

Kalle Trontti PhD, Researcher, Laboratory coordinator

Department of Biosciences P.O. Box 65, Viikinkaari 1 University of Helsinki 00014 FINLAND

Tel. +358-(0)40-3500882

Kalle Trontti <kalevi.trontti@helsinki.fi>

Lyon SMBE2010 videos online

Dear all,

We are happy to announce that the videos of the 4 plenary lectures and 8 presentations at the Walter Fitch symposium of the SMBE 2010 meeting in Lyon are now available on the SMBE 2010 official website:

http://smbe2010.univ-lyon1.fr/en or directly here: http://smbe.ens-lyon.fr/ Enjoy!

With best regards,

Gabriel Marais, Manolo Gouy Lead organizers

Dr Gabriel Marais

Bioinformatics and Evolutionary Genomics Biometry and Evolutionary Biology Dpt. (UMR 5558) CNRS, University of Lyon 1 Mendel's building, 16 Raphael Dubois st. 69622 Villeurbanne cedex France

Tel: (+33) (0) 4 72 43 29 09 Fax: (+33) (0) 4 72 43 13 88

Email: Gabriel.Marais@univ-lyon1.fr Web site: http://lbbe.univ-lyon1.fr/-Marais-Gabriel-.html Gabriel.Marais@univ-lyon1.fr Gabriel.Marais@univ-lyon1.fr

Microsatellite AlleleBining

Hi all,

I am currently working with microsatellite markers in an invasive plant to reconstruct its history and having problem with allele rounding of. Does anyone know of any allele bining methods other than using softwares like TANDEM or Optbin, and also the rationale behind them? Thanks in advance

AVIK *RAY*

– Visiting Fellow (Post Doc) NCBS-TIFR GKVK Campus Bellary Road Bangalore-65 India 080-23666340

AVIK RAY <avik.ray.kol@gmail.com>

Microsatellite AlleleBining answers

Hi all, Many thanks to all who replied back to my query on microsatellite allele binning; here goes the combined feedback, hope this helps

AVIK RAY

1. Mirjamvandevliet@hotmail.com

MSatAllele Alberto F. 2009 MsatAllele_1.0: an R package to visualize the binning of microsatellite alleles /Journal of Heredity./ 100(3):394–397 I used it now for severeal years. Easy to use and you get a clear picture of most possible allele size and if alleles have unexpected sizes (differenent sizes not consisiten with the motif size).

2. olepais@googlemail.com

There were a few methods published these past few years: http://tinyurl.com/3aj9mac < http://tinyurl.com/3aj9mac >

I was quite happy using FlexiBin, an Excell macro from Amos et al. 2007 or MsatAllele, a R package from Alberto 2009.

3. s.schliehe-diecks1@stud.uni-goettingen.de

I'm analyzing the microsattelites for my samples with genemapper from Applied Biosystems (I also run my samples on a sequenzer of Applied Biosystems). There you create allel ranges, before the program reads the allel size and you create them by using your samples as calibration. The programm detects where the the peks are and asigns those ranges to allel names (or numbers,letters). This way, I always got integer allel sizes. I don't know whether this helped. Cheers, Susanne

4. jsmf77@gmail.com

I just found the Flexibin application. It is an excel sheet (so no software at all) for allele binding. You can download it from this web page. http://www.zoo.cam.ac.uk/zoostaff/meg/-amos.htm They have also a PDF tutorial on how to use it.Go to the right panel, click on 'computer programs' . It is the first in the list.

5. reevesp@lamar.colostate.edu

AMOS, W., HOFFMAN, J. I., FRODSHAM, A., ZHANG, L., BEST, S. and HILL, A. V. S. (2007), Automated binning of microsatellite alleles: problems and solutions. Molecular Ecology Notes, 7: 10-14.

http://onlinelibrary.wiley.com/doi/10.1111/j.1471-8286.2006.01560.x/full 6. Sewall.Young@dfw.wa.gov

I work for the Washington State Department of Fish and Wildlife in the Molecular Genetics Laboratory. We have worked with microsatellites, mostly on salmonids, for about 13 years. We have always run our samples on Applied Biosystems instruments (377, 3100, 3730) and used AB's software to call genotypes. We struggled for several years to resolve the binning problem. Finally I constructed an Excel spreadsheet to do it, and I am willing to share it with you if you would like.

Conceptually, it identifies allele clusters by looking for gaps in the distribution of electrophoretic mobilities. We can enter a minimum gap size and it will adjust the allele clusters to satisfy the gap requirement that we specify. We import data by pasting-in columns from Genemapper output files. The mechanics are accom-

plished through formulas entered in cells rather than by running a macro. I would not describe the spreadsheet as elegant, but it allowed us to enforce standard binning in our lab, where data compatibility is important. Let me know if you would like to take a look at it and I will send you a copy and instructions for using it.

– Visiting Fellow (Post Doc) NCBS-TIFR GKVK Campus Bellary Road Bangalore-65 India 080-23666340

avik.ray.kol@gmail.com

MonkeyBible book

Evoldir:

If you haven't seen it yet, I strongly recommend you check out the "Monkey Bible" project, with a book and music CD. The author's laudable goal is to promote understanding and acceptance of evolution, even by those "burdened" with religious belief. It is written in a wonderful style and is focused on a half-human-half-ape protagonist's spiritual and intellectual journey. The book is available via Amazon.com and has received rave reviews from many sectors, including clerics.

Also, if you are an educator, you may want to check out the related youtube videos: > http://-www.youtube.com/user/TheMonkeyBible David H. A. Fitch Professor Department of Biology New York University Main Building, Room 1009 100 Washington Square East New York, NY 10003 U S A Tel.: (212) 998-8254 Fax: (212) 995-4015 e-mail: david.fitch@nyu.edu

http://www.nyu.edu/projects/fitch/ David Fitch <df3@nyu.edu>

NatHistMuseum Lima petition

The Museum of Natural History from LIMA, PERU is under threat. The university authorities are planning to sell the land where it based and risk the thousands of invaluable biological specimens, the richest scientific collection of Peru's fauna and flora, one of the most biodiverse countries in the world.

Please paste the petition link copied below, and help us stop this atrocity from happening.

Thanks for taking time to help!!!

Ursula

"Salvemos el Museo de Historia Natural - MUSM (Lima-Peru) / Save the Museum of Natural History - MUSM (Lima-Peru)"

hosted on the web by PetitionOnline.com< http://-PetitionOnline.com >, the free online petition service, at:

http://www.PetitionOnline.com/musm1710/ Ursula Paredes, PhD. Room C2.04 PO80 MRC Centre for Social, Genetic and Developmental Psychiatry King's College London De Crespigny Park London SE5 8AF

Tel. 0044 207 848 0856 Fax 0044 207 848 0575

ursula.paredes@kcl.ac.uk

Netherlands Volunteer Shorebird FieldAssist

SHOREBIRDS FIELD ASSISTANT, The Netherlands

Volunteers are needed *from 10 March to 10 May 2011* for an ongoing capture-recapture program on the Ruffs, *Philomachus pugnax. *The project is under the supervision of Prof. Dr. Theunis Piersma, head of the Animal Ecology Group of the University of Groningen. The fieldwork consists in the monitoring of colour-banded birds in Southwest Friesland, a characteristic Dutch meadow area in the north of The Netherlands. We collect data on the timing of migration, habitat use, phenotype characteristics, feeding and reproductive behaviour of the birds; but you will also assist with the banding of the birds, blood sampling, and data entry. If interested, possibility to extent your stay to help with the fieldwork for the project on breeding ecology of the Black-tailed Godwit which involves nest searching, nest monitoring, catching and ringing (Ended around 15 June).

Volunteers and students involved will live together in our field station in a small village along the shore of Lake IJsselmeer. We are seeking enthusiastic persons, willing to spend long hours in the field, with good social and team working skills. Experience with handling birds and colour-ring reading is definitely a plus.

A driver license is needed but command of Dutch or Frisian is not necessary ;-).

We provide housing and field equipment. Volunteers must pay own airfare and food expenses (3-4 Euros per day). A refund of flight cost might be possible (depending on pending grant applications).

To apply, please send a resume/CV (keep it to relevant details), a cover letter (interests, career goals, relevant experience for the position and availability) and two references with e-mail addresses to:

Lucie SCHMALTZ PhD Student Animal Ecology Group Centre for Ecological and Evolutionary Studies University of Groningen PO Box 14, 9750 AA Haren The Netherlands.

Email: L.Schmaltz@rug.nl Office : +31 50 363 2091

For further info see: http://www.rug.nl/biologie/-onderzoek/onderzoekgroepen/dieroecologie/-onderzoek/researchstudies/ We will begin reviewing applications from 15th December 2010 and continue until position is filled.

Lucie SCHMALTZ <lucie.schmaltz@gmail.com>

Nevada VolunteerFieldAssist YuccaYuccaMoth Coevolution

Dear Colleagues,

The Smith lab at Willamette University is seeking 3-4 volunteers to participate in field research studying the pollination biology and coevolution of Joshua trees (Yucca brevifolia) in March and April of 2011.

Volunteers will assist in the completion of pollination experiments in a plant hybrid zone located in central Nevada. Participation will require living at remote field site for approximately four weeks, from late March to mid April. All travel costs and expenses will be paid, and volunteers will receive a modest stipend.

Prospective volunteers should submit a CV or resume, the name and contact information for one or more professional references, and a letter describing their interest in the project by email to: csmith@willamette.edu. Please include the words 'Volunteer Field Assistant' in the subject line of your message. Screening of applicants will begin on December 6, 2010, and continue until all positions are filled.

Successful applicants will:

Be of above-average physical fitness (i.e., capable of walking ~10 miles per day over uneven ground while carrying equipment, capable of climbing a 6' ladder, and capable of lifting ~40 lbs).

Be enthusiastic about living in primitive conditions (camping without established restroom or bathing facilities) for extended periods of time, and able to endure variable weather and temperatures (daily temperatures may be as low as 20 F or as high 90 F; wind and sandstorms are a daily event; snow is uncommon but not unheard of).

Possess their own camping equipment (a 3-season tent, a sleeping bag rated to 20 degrees F, shoes suitable for walking over rocky terrain, a backpack and related accoutrements).

Possess a valid US driver's license.

Have an educational background in biology or a related field (there is no degree requirement, but a familiarity with ecology and natural history is required).

Have superlative interpersonal skills.

More information about our research is available at:

http://www.willamette.edu/ ~ csmith/-ChrisSmith.htm http://www.nsf.gov/discoveries/-disc_summ.jsp?cntn_id=3D115956&org=3DNSF
Please feel free to forward this message to potentially interested parties.

Christopher Irwin Smith Assistant Professor Department of Biology Willamette University Salem, OR 97301 ph: 503-370-6181 fax: 503-375-5425

email: csmith@willamette.edu csmith@uidaho.edu chris_smith@post.harvard.edu

http://www.willamette.edu/~csmith/ChrisSmith.htm csmith@willamette.edu

NewMexicoStateU SequencingAvailable

Hello,

I am from the Biology department of New Mexico State University and we are extending our sequencing lab to outside users. I have attached an announcement stating this.

Thank you,

The New Mexico State University Laboratory for Evo-

lutionary and Ecological Genetics (LEEG) is now opening its services to outside facilities. Starting December 1, 2010, the LEEG lab will run samples for sequencing and fragment analysis on the ABI 3100 genetic analyzer. The price is $1.80 per sample, but if you are able to run a full plate, we will give you a 10% discount and charge $1.65 per sample. A brief description of the ABI 3100 is given below, but you can also visit our website at http://biology-web.nmsu.edu/3100ABI/ for more information about the lab, as well as policies and procedures on sending your samples to us. If you are interested in our services or have any questions, please contact the LEEG Lab TA via email at leeg@nmsu.edu.

Description

The ABI Prism 3100 ABI Genetic Analyzer is an automated capillary electrophoresis system that can separate, detect, and analyze up to 16 capillaries of fluorescently labeled DNA fragments in one run. It offers continuous operation with automated polymer and sample injection, separation and detection, and data analysis. The 3100 is a machine capable of running sequence and fragment analysis.

ABI 3100 services

Sequencing analysis Separates a mixture of DNA fragments according to length Provides a profile of the separation Determines the order of the four bases

Fragment Analysis Separates a mixture of DNA fragments according to length Provides a profile of the separation Determines the length of each fragment Estimates the relative concentration of each fragment in the sample

Erin Punke

ebastian@nmsu.edu ebastian@nmsu.edu

Phenotype Network

Dear colleagues:

We are pleased to inform you that NSF has recently funded a Research Coordination Network for researchers who are interested in searching and comparing phenotypes across species and in developing the tools and methods needed in making this possible (http://phenotypercn.org). The representation of morphology, behavior and other phenotypic features using computational methods such as ontologies and controlled vocabularies is in its infancy. Integrating phenotypes with data across all levels of the biological hierarchy, however, is possible if standards are co-developed and coordinated.

This RCN envisions building a broad base of community knowledge and resources so as to maximize the research potential of web-based data. Funding for participation in meetings, presentations and laboratory exchanges for students, postdocs and faculty from ontology and taxonomic domains (initially plants, arthropods, and vertebrates) is available through the RCN (see http://phenotypercn.org/opportunities/ . We are eager to have you join us! Please sign up for our participant and mailing lists for further information (http://phenotypercn.org/participants/add/) and feel free to contact one of the PIs (Paula Mabee, pmabee@usd.edu; Andy Deans, andy_deans@ncsu.edu; Eva Huala, huala@acoma.stanford.edu; and Suzanna Lewis, selewis@lbl.gov).

“Mabee, Paula” <Paula.Mabee@usd.edu>

Software DAPC

Dear colleagues,

We have recently developed a new multivariate approach, the Discriminant Analysis of Principal Components (DAPC), for inferring genetic clusters and describing between-groups genetic diversity. Simulations reveal that DAPC is as accurate as STRUCTURE in simple island models, while performing largely better in more complex situations. The method is flexible, offers unique features, and is faster than Bayesian clustering approaches by several orders of magnitude.

DAPC is presented in the following paper: http://-www.biomedcentral.com/1471-2156/11/94

or, for a pdf: http://www.biomedcentral.com/-content/pdf/1471-2156-11-94.pdf The method is implemented in the adegenet package for R, in the function find.clusters and dapc. Further information, documentation and support can be found from the adegenet website: http://adegenet.r-forge.r-project.org/ Sincerely,

Thibaut Jombart.

–

Dr Thibaut JOMBART MRC Centre for Outbreak Analysis and Modelling Department of Infectious Disease Epidemiology Imperial College - Faculty of

Medicine St Mary's Campus Norfolk Place London W2 1PG United Kingdom Tel. : 0044 (0)20 7594 3658 t.jombart@imperial.ac.uk http://sites.google.com/-site/thibautjombart/ http://adegenet.r-forge.r-project.org/ t.jombart@imperial.ac.uk

Software PLAZA PlantComparativeGenomics

Dear colleagues,

we are happy to announce the public release of PLAZA 2.0 (http://bioinformatics.psb.ugent.be/plaza/).

PLAZA is an on-line centralized platform where data generated by different plant sequencing initiatives is integrated and combined with advanced methods for data mining. This resource integrates structural and functional annotation of published plant genomes together with a large set of interactive tools to study gene function and gene and genome evolution. Precomputed data sets cover homologous gene families, multiple sequence alignments, phylogenetic trees, intraspecies whole-genome dot plots, and genomic colinearity between species. The Workbench provides an efficient environment to analyze user-defined gene setsˆthrough PLAZA's interface incl. GO enrichment analysis for all species.

The second release of the platform integrates structural and functional annotation from 23 plants covering 11 dicots, 5 monocots, 2 (club-)mosses and 5 algae (>840,000 genes). New features include: - Explore orthologous genes in other species (through the integration of a complementary set of data types and methodologies) - functional gene clustering based on GO annotations - GenomeView genome browser - interactive Syntenty Plots to explore local gene organization - interactive Whole-Genome Dotplot viewer to explore gene colinearity between multiple species (on a genome-wide scale)

For more information, please check our Data Overview, Documentation & Tutorials. Reference: PLAZA: a comparative genomics resource to study gene and genome evolution in plants. The Plant Cell 21: 3718-3731

best regards,

Klaas Vandepoele plaza@psb.vib-ugent.be

–

Klaas Vandepoele, PhD Tel. 32 (0)9 33 13822 VIB Department of Plant Systems Biology, Ghent University Technologiepark 927, 9052 Gent, Belgium E-mail:Klaas.Vandepoele@psb.vib-ugent.be Website:http://bioinformatics.psb.ugent.be/ PLAZA, a resource for Plant Comparative Genomics http://-bioinformatics.psb.ugent.be/plaza/ Klaas Vandepoele <klaas.vandepoele@psb.vib-ugent.be>

Softwarer SOFSOG

Dear all,

A new software is freely available on my web page (see below). SOFSOG is a suite of programs that helps to design conservation or breeding plantations. The package contains three programs: Coancestry, to calculate molecular coancestry between individuals (probability of Identity By State or AIS); Divide, to distribute candidates among different available sites (if more than one); and Sofsog, to determine the plantation scheme within plots to avoid inbred offspring, following either the classical neighbourhood design or the recent method by Fernández & González-Martínez (Conservation Genetics 2009 10, 45 57). A more detailed description of the characteristics and possibilities of the software can be found in Fernández & González-Martínez (Molecular Ecology Resources 2009 10, 45 57). Advantages of the new allocation method from the classical one are that it considers all individuals in a plantation (not only the neighbours), it includes different pollen dispersal kernels,

and it takes into account other sources of information too (for example coancestry estimations between individuals).

Although specially designed for forest species, the first two modules (Coancestry and Divide) can be used with any species (either, plant or animal). For example, when we have to distribute fishes into different tanks where they will mate randomly. Or when creating subpopulations in different locations within a ex situ conservation program.

Best wishes

Jesús Fernández Martín

Departamento de Mejora Genética Animal 34-91 3471487

Instituto Nacional de Investigación y 34-91 3478743

(FAX)

Tecnología Agraria y Alimentaria (INIA) jmj@inia.es

Crta. A Coruña Km. 7,5

28040 Madrid (SPAIN)

http://webs.uvigo.es/c03/webc03/XENETICA/XB2/-Jesus/Fernandez.htm

Jesús Fernández Martín <jmj@inia.es>

SouthAfrica VolunteerFieldAssist MiceEvolution

Volunteers needed as field assistants for the project:

Evolution and Socio-Ecology of small Mammals in the Succulent Karoo of South Africa

Open positions from March 2011 onwards

Opportunity: This is a great opportunity for anybody who wants to get more experience in field work relating to evolution, ecology and behavior before starting an MsC or PhD project.

Project: We study the evolutionary and ecological reasons as well as physiological mechanisms of group living, paternal care, communal nesting and social flexibility in the striped mouse. As this species is diurnal and the habitat is open, direct behavioral observations in the field are possible.

What kind of people are needed? Biology/zoology/veterinary students are preferred as candidates. Applicants must have an interest in working in the field and with animals. Hard working conditions will await applicants, as the study species gets up with sunrise (between 5 and 6 o‘ clock), and stops its activity with dusk (19 o‘ clock). Work during nights might also be necessary. Work in the field will be done for 5 days a week. Applicants must be able to manage extreme temperatures (below 0 at night in winter, sometimes over 40C during summer days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small social group.

Work of field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field. Volunteers are also expected to help with maintenance of the research station (water pump, solar power, etc.)

Confirmation letter: Students get a letter of confirmation about their work and can prepare a report of their own small project to get credit points from their university for their bachelor or masters studies.

Costs: Students have to arrange their transport to the field site themselves. Per month, an amount of Rand 1000 (around 110 Euro) must be paid for accommodation at the research station. For students with their own undergraduate project, a fee of Rand 1250 (approx. 135 Euro) per month applies. Students must buy their own food etc in Springbok (costs of about R 2250 or 250 Euro/month). Including extras, you should expect costs of about 400 Euros per month. Students get an invitation letter which they can use to apply for funding in their home country (eg. DAAD in Germany, SANW in Switzerland).

Place: The field site is in the Goegap Nature Reserve near Springbok in the North-West of South Africa. The vegetation consists of Succulent Karoo, which has been recognized as one of 25 hotspots of biodiversity. It is a desert to semi-desert with rain mainly in winter (June to September).

When and how long: At the moment we are looking for volunteers for the period March / April to June and from July / August to November / December. Volunteers are expected to stay at least 2 months, but longer periods of up to 6months are preferred.

How to apply? Send a short motivation letter stating why and for which period you are interested and your CV via email to carsten.schradin@ieu.uzh.ch.

More information under < http://-www.stripedmouse.com/ > www.stripedmouse.com

Contact via e-mail: carsten.schradin@ieu.uzh.ch

Dr. Carsten Schradin Research Assistant, Department of Animal Behavior, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland. Tel: +41 - (0)44 635 5486

Honorary Researcher at the School of Animal, Plant and Environmental Sciences, University of the Witwatersrand, South Africa.

Working as a field assistant in Goegap Nature Reserve

A report by Romy Höppli, student at the University of Zurich, who staid in Goegap June to August 2008

Blue skies without a single cloud for six weeks rocky mountains with little vegetation yellow, orange and pink fields of flowers in whatever direction you look small mammals, lizards and birds in our front yard and Mountain Zebras, Springbok and Ostrich right next door...

This was my time at the Succulent Karoo Research Station in Goegap Nature Reserve in South Africa! During six weeks from the beginning of July until the middle of August I've been living here, studying mice, experiencing nature like never before and being part of a small community where there was always something to laugh and joke about!

After arriving in Goegap, right the next morning my scientific adventure in South Africa began: Setting and checking traps, nest observations and radio-tracking were our daily routine. While I got bitten by the mice quite often in the beginning and my right middle finger was scarred all over, I improved quickly shaking the mice out of the traps, weighing them and checking the number of the ear tag. Other duties like cleaning the cages of the mice in the captive colony, washing the dirt from probably several months out of the traps, painting the new Wendy House and putting in a floor

— / —

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

TravelGrants PlantHistory

microMORPH is pleased to announce a funding opportunity for graduates students, postdoctorals, and assistant professors in plant development or plant evolution. $3,500 is available to support cross-disciplinary visits between labs or institutions for a period of a few weeks to an entire semester. We are particularly interested in proposals that will add a developmental perspective to a study of evolution of populations or closely related species. We are also interested in developmental studies that will incorporate the evolution of populations or closely related species. The deadline for proposals is December 15th, 2010. More information about the training grants and the application process may be found on the microMORPH website:

http://www.colorado.edu/eeb/microMORPH/-grantsandfunding.html These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is 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.

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 L. Baker" <robert.baker@Colorado.EDU>

PostDocs

AuburnU Wormnet

Graduate Positions and Postdoc Opportunities: WormNet II: Assembling the Annelid Tree of Life

An international collaborative research team is seeking graduate students and postdocs to participate in a large-scale project on annelid phylogeny under a recently awarded NSF Assembling the Tree of Life grant.

The team includes Ken Halanych and Scott Santos (Auburn University), Damhnait McHugh (Colgate University), Sam James (Kansas University), Anja Schulze (Texas A&M Galveston), Frank Anderson (Southern Illinois University), Christer Ersus (University of Gothenberg), Torsten Struck (University of Osnabr[1]ck) and Christoph Bleidorn (University of Leipzig). The public summary for the project is listed below.

Potential study areas include molecular and morphological phylogenetics, phylogenomics, bioinformatics, annelid biology, taxonomy and macroevolution.

There is the possibility to work between the above laboratories for cross training.

Public Summary:

The >16,000 recognized species of annelids exhibit immense morphological diversity and include such distinct groups as fireworms, earthworms, bloodworms, leeches, and many more. As sediment feeders, scavengers, and predators, annelids occupy terrestrial and aquatic habitats worldwide and are the most abundant fauna (larger than 1 mm) in the deep sea, Earths most extensive habitat. Annelids have economic importance as bait, pests, invasive species (e.g., oyster borers), and ecosystem engineers. Nonetheless, many fundamental questions about annelids remain unresolved because knowledge of their diversity and evolutionary history is lacking. To fill this gap, this international project will assemble the annelid family tree using a large-scale, multi-tiered approach. The oldest relationships will be examined with high-throughput genomic techniques. Recent relationships will be resolved with traditional DNA approaches and a community-based sequencing service that will examine approximately 3,000 species.

As one of the few segmented phyla, annelids are integral to the understanding of animal evolution. This project has significant interdisciplinary implications in fields such as developmental biology, paleontology, marine biology, physiology, and evolution. Specimens, data, and educational resources will be publicly available. Extensive human resource development includes training >25 undergraduates, >5 graduate students and >4 postdoctoral researchers at four institutions, and recruitment of underrepresented groups. K-12 outreach will foster broad scientific participation with the general public.

Those interested should contact one of the laboratories below (primary responsibilities listed in parentheses):

Dr. Anja Schulze - Texas A&M Galveston (will oversee the mitochondrial community-sequencing project and contribute to sequencing of nuclear genes)

schulzea@tamug.edu

http://eeb.tamu.edu/faculty/schulze.cfm

Dr. Frank Anderson - Southern Illinois University (will oversee collection of clathrin and ribonucleotide reduc-

tase small subunit sequences for non-clitellate annelids, prepare cDNA libraries for sequencing and share responsibility for mitochondrial community sequencing).

feander@siu.edu

http://www.zoology.siu.edu/anderson/

Dr. Scott Santos - Auburn University (will be responsible for the data pipelines, bioinformatic analyses, and database management)

santos@auburn.edu

http://www.auburn.edu/~santosr/

Dr. Ken Halanych - Auburn University (will be responsible for general oversight of the project, and will coordinate preparation of cDNA libraries and oversee next-generation sequencing)

ken@auburn.edu

http://gump.auburn.edu/halanych/lab/

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 Halanych <ken@auburn.edu>

AustralianNatlU 3 EvolutionaryPhyloinformatics

RESEARCH OPPORTUNITIES AT THE AUSTRALIAN NATIONAL UNIVERSITY

Three research positions are available in the Evolutionary Phyloinformatics Group in the Evolution, Ecology and Genetics Division of the Research School of Biological Sciences at the Australian National University in Canberra.

1. Exploring evolvability: its causes, consequences and practical applications in a changing environment. Does evolution result in traits that increase the generation of variation or the efficiency of selection? Does the tempo and mode of evolution increase in particular times, places or lineages? The emphasis of this research program is to frame questions such as these in a way that allows them to be tested and applied to important practical case studies. The postdoc will develop and extend a broad-scale comparative approach to these questions, in particular making use of the analysis of large molecular phylogenies and patterns of molecular evolution. For more information see http://-/jobs.anu.edu.au/PositionDetail.aspx?p=3D1644 . 2. Origins of a biodiversity hotspot flora: diversification of the Australian Proteaceae. Mediterranean-climate regions, such as Australiaâs southwest, often have spectacular botanical diversity, despite poor soils and low rainfall. Using the family Proteaceae as a case study, we will test hypotheses to explain the origins of the richly diverse ïof the southwest, exploring the contributions of lineage age, diversiïrate and ecological 'carrying capacity' to species richness. The postdoctoral researcher will be responsible for generating a species-level molecular phylogeny of the Proteaceae, constructing databases of geographic and ecological information, then using these to analyze patterns of macroevolution and macroecology in the Proteaceae

3. Evolution of halophytes: a phyloinformatic approach to understanding and exploiting the traits underlying salt-tolerance in plants. This project takes a novel biodiversity-based approach to the global problem of increasing environmental salinity, by asking what traits or preconditions underlie the evolution of salt-tolerance across >1500 naturally salt-tolerant flowering plant species? We can use this as a model system for understanding the evolution of complex traits and adaptation to harsh environments. A research assistant is required to undertake DNA sequencing and phylogenetic analysis. The position includes collaborative work that may involve interstate travel.

If you are interested in any of these positions, please send an email with a brief description of your interests and experience, along with a CV, to lindell.bromham@anu.edu.au or marcel.cardillo@anu.edu.au.

Lindell Bromham Centre for Macroevolution and Macroecology, Evolution, Ecology and Genetics, Research School of Biology Australian National University Canberra, ACT, 0200 AUSTRALIA

lindell.bromham@anu.edu.au
www.tempoandmode.com lindell.bromham@anu.edu.au

Barcelona EvolutionaryGenomics

Postdoctoral Position in Evolutionary Genomics in

Barcelona

A postdoctoral position is available in the group of Mar Alb at the Pompeu Fabra University (UPF)/Institut of Medical Research (IMIM), Barcelona, Spain. The group is located in the premises of the recently established Barcelona Biomedical Research Park (PRBB), which hosts nearly 1,200 researchers working in different areas related to molecular biology, bioinformatics, evolution and medicine. For more details on the group please visit our web page (evolutionarygenomics.imim.es).

Current projects in the lab focus on understanding the evolutionary processes that lead to gene functional innovations in eukaryotic genomes, including the birth of new genes, analysis of duplicated genes and the impact of repetitive sequences in the formation of new protein domains. Project details for the successful candidate are flexible. Applicants should have a background in comparative genomics, molecular evolution and programming. At least two publications as first author are advisable.

Funding is initially available for a period of two years. Gross salary is in the range 26,000-29,000 euros depending on experience. Deadline for applications is 12th december. The ideal starting data is between January and April 2011, and no later than July 2011.

Interested candidates please send a short CV, statement of research interests and the names of two references to Mar Alb (malba@imim.es).

Selected recent publications of the group:

Mularoni, L., Ledda, A., Toll-Riera, M., Alb, M.M. (2010) Natural selection drives the accumulation of amino acid tandem repeats in human proteins. Genome Research, 20: 745-754.

Farr, D., Alb, M.M. (2010) Heterogeneous patterns of gene expression diversification in mammalian gene duplicates. Molecular Biology and Evolution, 27:325-335.

Salichs, E., Ledda, A., Mularoni, L., Alb, M.M., de la Luna, S. (2009) Genome-wide analysis of histidine repeats reveals their role in the localization of human proteins to the nuclear speckles compartment. Plos Genetics, 5: e1000397.

Toll-Riera, M., Bosch, N., Bellora, N., Castelo, R., Armengol,Ll., Estivill, X., Alb, M.M. (2009) Origin of primate orphan genes: a comparative genomics approach. Molecular Biology and Evolution, 26:603-612.

M.Mar Alb ICREA Research Professor Evolutionary Genomics Group Pompeu Fabra University/ Institut of Medical Research Dr. Aiguader 80, Barcelona 08003, Spain

malba@imim.es malba@imim.es

BostonU EvolutionaryGenomics

An NSF-funded postdoctoral position is available immediately (flexible start date) to work with Sean Mullen on the comparative genomic basis of butterfly wing pattern variation.

Butterflies display a massive array of color patterns, but much of this diversity appears to be a result of variation in the elements of a conserved wing pattern ground plan. Consistent with this hypothesis, emerging research is revealing that the genetic basis of color pattern mimicry is conserved, at least among closely-related species. Current work in the lab is aimed at identifying the genes responsible for color pattern mimicry in Heliconius, Limenitis, and Papilio butterflies using a novel strategy that utilizes bulk segregant analyses paired with Illumina sequenced RAD tags, fine mapping, BAC contig sequencing, SNP discovery via genome resequencing, and array-based SNP genotyping.

Toward this end, the lab is currently searching for a post-doc with a strong background in evolutionary genomics and/or bioinformatics to assist with analysis of large genomic and population genomic datasets. Significant opportunities exist for collaborative interactions with the lab of Marcus Kronforst at Harvard University as well as with other members of the broader Heliconius butterfly community.

More information about the lab can be found here: http://people.bu.edu/smullen/-Mullen_Lab_at_Boston_University/Home.html To apply, send a CV, a short description of research interests and experience, and the names, addresses, phone numbers, and e-mail addresses of three references to Sean Mullen at smullen@bu.edu or at this address: Department of Biology, Boston University, 5 Cummington St., Boston MA 02215, USA.

Review of applications will begin on December 15th and continue until the position is filled.

Boston University is an Equal Opportunity/Affirmative Action Employer.

smullen@bu.edu

ButlerU EvolutionaryBiol

STRI-Butler University Postdoctoral Associate Position

The Department of Biological Sciences at Butler University, a predominantly undergraduate university based in the liberal arts and located in Indianapolis, IN, is seeking candidates for a Postdoctoral Associate Position in association with the Smithsonian Tropical Research Institute (STRI). The position will begin June 1, 2011 and conclude June 1, 2014. A successful candidate for this position will be a qualified researcher holding a Ph.D. or equivalent degree with an interest in both (1) tropical biology and (2) gaining undergraduate teaching and mentoring experience. The area of specialization is open, but Butler University would be particularly interested in applicants who would be capable of teaching courses in entomology and tropical biology. A successful candidate would receive an appointment for 3 years, with half of the time spent at Butler University where teaching would be the primary responsibility, and the other half of the time in Panama where STRI is headquartered. Teaching expectations would include participation in the introductory biology sequence of courses for majors and development of major's courses in tropical biology and the candidate's area of specialty. There is considerable flexibility in how the research portion of the position may be structured (i.e. the post doc may work in association with a staff scientist, a visiting researcher, or independently). While in Panama, the post doc will also serve as a liaison for Butler students serving as interns at STRI facilities.

Applicants should submit a cover letter, curriculum vitae, a statement of teaching interests and philosophy, a research statement, unofficial transcripts, and email addresses and telephone numbers of three individuals who agree to provide letters of recommendation to Dr. Carmen Salsbury, STRI-Butler Postdoctoral Associate Position, Department of Biological Sciences, Butler University, 4600 Sunset Avenue, Indianapolis, IN 46208. Inquiries may be made by e-mail to: csalsbur@butler.edu. Evaluation of applicant credentials will begin immediately upon receipt and will continue until the position is filled. It is the policy of Butler University to provide equal opportunities for employment and advancement for all individuals regardless of age, gender, race, religion, color, disability, veteran status, sexual orientation, national origin, or any other legally-protected category.

"Salsbury, Carmen" <csalsbur@butler.edu>

CIRAD Montpellier LifeHistoryTraits

A postdoctoral position to begin in January 2011 is available in the "Locust ecology and control" laboratory at CIRAD, Montpellier, France.

We are seeking a postdoc to conduct research on the phenotypic plasticity of life history traits in locusts, which, unlike other grasshoppers, undergo extreme phase change from the low population density solitarious phase to the high population density gregarious phase. Information on the project and application procedure can be accessed at http://www.cirad.fr/en/-jobs/vacancies/researchers/researcher-in-entomology-and-life-history-strategies. Information on the host lab and CIRAD can be found at the following websites: http://www.cirad.fr/ur/acridologie_en and http://www.cirad.fr/en.

Marie-Pierre Chapuis CIRAD Acridologie TA A-50/D F-34398, Montpellier France Office: +33 (0)4 67 59 39 35 Fax: +33 (0)4 67 59 38 73

marie-pierre.chapuis@cirad.fr

DukeU Metagenomics

Subject: Postdoctoral Position in Metagenomics at Duke University We are currently seeking qualified applicants for a postdoctoral position to study functional metagenomics in a keystone plant-microbe symbiosis (pines and ectomycorrhizal fungi). The position is part of a collaborative project to examine multiple levels of diversity (genetic, functional and taxonomic) for ectomycorrhizal fungi across across North America. The metagenomics postdoc will be housed at Duke University and will use next generation sequencing to compare gene expression of plants & fungi in symbiosis and to identify key functional gene differences between species of ectomycorrhizal fungi.

The position is funded under a collaborative research grant between the Univ. of Minnesota (Kabir Peay), Univ. of California Berkeley (Tom Bruns & John Taylor) and Duke University (Rytas Vilgalys). Representative publications from the respective PI's can be found below. The postdoc will have frequent opportunity to interact with PI's at all three institutions during annual project meetings and field work.

Interested candidates should send (1) a cover letter explaining interest and relevant qualifications (e.g. technical or analytical skills), and (2) a CV listing education, relevant publications and contact information for 4 references to Kabir Peay (peay0001@umn.edu). Applicants should have a PhD or plan to complete their degree by summer of 2011. Positions will be funded for 1 year with the possibility of multi-year extensions. Start date is somewhat flexible but applicants should anticipate starting around summer or Fall 2011.

Lab Webpages:

Vilgalys Lab (Duke University): http://fds.duke.edu/-db/aas/Biology/faculty/fungi Taylor Lab (UC Berkeley): http://pmb.berkeley.edu/ ~ taylor/-people/jt.html Bruns Lab (UC Berkeley): pmb.berkeley.edu/~bruns/people/tb.html

Peay Lab (Univ. of Minnesota): plpa.cfans.umn.edu/Kabir_Peay.html

peay0001@umn.edu

ETH Zurich Conservation

Postdoctoral position in Tropical Ecology and Conservation Shortterm opportunity with possibility for two year extension Professorship of Ecosystem Management, ETH Zurich

The Professorship of Ecosystem Management, ETH Zurich, seeks a good postdoctoral researcher to conduct research on tropical ecology and/or conservation. The postdoctoral scientist would be free to develop their own ideas in the context of work relevant to that conducted at the Professorship of Ecosystem Management. Six months of funding is available initially, during which time the postdoc would be expected to develop a research proposal for an ETH Zurich Research Fellowship (see www.vpf.ethz.ch/services/ETH_Fellows). Such a proposal would be developed collaboratively with other members of the group, principally Prof. Jaboury Ghazoul, Dr Lian Pin Koh and/or Dr Chris Kettle, and should build upon and further develop one or more aspects of the existing tropical research of the group: see www.ecology.ethz.ch/research/index for more information on current research activities. As stated above, there is considerable freedom for the postdoctoral candidate to develop their own ideas within this context.

ETH Zurich Research Fellowships provide generous funding for two years, including an excellent salary and funds for travel and consumables. Fellowships are very prestigious, and evidence of research excellence is essential. There are three main criteria that should be met: 1. Completed a PhD within the last 18 months. 2. Published at least three papers in good journals. 3. Applicants from ETH Zurich or the University of Zurich are NOT eligible. See http://www.ecology.ethz.ch/ for more information on the Ecosystem Management group at ETH Zurich.

Any interested candidate should send a full CV and cover letter, including an outline of research ambitions and objectives, to Jaboury Ghazoul at Jaboury.Ghazoul@env.ethz.ch. Applications must be received by 30 November 2010. Expected start date is January 2011.

Kettle Chris <chris.kettle@env.ethz.ch>

Finland FungalMolecularEvolution

Postdoctoral / PhD student position at MTT Agrifood Research Finland (Job Code: 400-222-10)

MTT Agrifood Research Finland seeks a highly motivated postdoctoral researcher or PhD student to work in a study that aims to understand coevolution of fungal endophytes with grasses.

Primary goals are to study molecular evolution of endophytic fungi and their co-phylogeny with host grasses, and conduct manipulative field and common garden studies that elucidate how ecology and genetics interact to shift fungal life history traits between the extremes of sexuality and asexuality and pathogeneity and mutualism. As model grass species we will use red, meadow and tall fescues - tenacious invaders of terrestrial habitats having also great agronomic importance. The research project is a collaborative, team-oriented, research effort among scientists of MTT, University of Turku (Section of Ecology) and University of Helsinki (Finnish Museum of Natural History) covering both basic and applied research questions, and funded jointly

by MTT and the Academy of Finland for the period 01.01.2011-31.12.2014.

Preference will be given to conceptually oriented postdoctoral candidates with a Ph.D. or equivalent degree and an established track record of productivity and innovative research in microbial ecology and/or evolution. Ability to use emerging technologies to study the ecology and evolution of endophyte-plant symbioses is seen as an advantage. The applicant must be willing and able to work in team and individual settings, and to travel and work with flexible hours, occasionally under harsh field conditions.

The position is for two years, with possible extension. To begin the application process, submit (1) a cover letter that includes a brief review of your research experience and interests, (2) resume, and (3) names of two references. MTT applies individual salary negotiations. The ideal starting time is January 2011, but if you are interested in later dates you are welcome to ask. Please send your application, addressed to "Kari Saikkonen - Job Code: 400-222-10", before 30th of November, 15:00 EET to MTT Agrifood Research Finland, Kirjaamo, 31600 Jokioinen, Finland, or preferably by e-mail to kirjaamo@mtt.fi.

For further information, contact prof. Kari Saikkonen, e-mail: kari.saikkonen@mtt.fi

karisaik@utu.fi

GeorgiaTech TeethEvolution

A POSTDOCTORAL POSITION in evolutionary developmental biology is available in the laboratory of Todd Streelman, at the Georgia Institute of Technology. Candidates for this position will be expected to carry out independent research contributing to an understanding of how dentitions evolve and develop diversity. Experience in developmental biology and/or genomics is desired.

More information about research in Streelman's group can be found at the following site: http://-www.biology.gatech.edu/faculty/todd-streelman/. The Georgia Institute of Technology offers exciting avenues for collaboration with biomedical engineers and computational scientists. Georgia Tech was recently voted one of the best places to work, and Atlanta is consistently ranked among the top ten places to live for young professionals.

The start date for this position is flexible; funding is available for at least two years but is contingent upon satisfactory progress in year one. The salary will be competitive and commensurate with experience. Interested individuals should send informal queries or an application consisting of a (i) CV, (ii) a brief description of research and professional goals, and (iii) the names and addresses of 3 references to Todd Streelman, by e-mail (todd.streelman@biology.gatech.edu).

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

J.T. Streelman Associate Professor School of Biology Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332-0230 404-385-4435 (office) 404-385-4436 (lab) 404-385-4440 (fax) E-mail: todd.streelman@biology.gatech.edu http://-www.biology.gatech.edu/faculty/todd-streelman/ todd.streelman@biology.gatech.edu

IowaStateU SocialInsectEvolution

POST DOC ANNOUNCEMENT

NSF-funded postdoctoral position at Iowa State University, "DNA methylation and the evolution of social insect castes", to begin in 2011 (available as early as January)

We are seeking a postdoc for a project investigating the role of DNA methylation in the regulation of queen and worker phenotypes in primitively social Polistes dominulus wasps. This position is funded for two years, with the possibility for additional funds. This highly interdisciplinary project will involve field collections of paper wasps in Iowa, lab rearing and experimental manipulation of colonies, behavioral observations, high throughput RNA- and bisulfite-sequencing, RNA interference, and bioinformatic and statistical analyses. Applicants should have completed the PhD before/around January 2011. Those with previous experience in molecular biology techniques, bioinformatics, and/or entomology (especially social insects) are especially encouraged to apply.

More information about the host lab, department, and university can be found at the following websites:

http://www.public.iastate.edu/ ˜ amytoth/Toth_lab/-Home.html http://www.eeob.iastate.edu/ http://-

www.iastate.edu/

If interested, please send a CV, names of two references, and a short statement of interests to Amy Toth amytoth@iastate.edu by January 1, 2011.

Iowa State University Ecology, Evolution, and Organismal Biology 309 Bessey Hall Ames, IA 50011 office phone: (515)-294-3121 amytoth@iastate.edu http://www.public.iastate.edu/ ˜ amytoth/Toth_lab/-Home.html amytoth@iastate.edu

LoyolaU Biogeography

Postdoc in Biogeography

A postdoctoral position is available in Sushma Reddy's lab at Loyola University Chicago. The lab focuses on molecular systematics and biogeography of birds, using genetic and distributional data to study patterns of diversification. The postdoc will be responsible for analyzing large-scale distributional datasets of passerine birds on continental systems, with a focus on tropical Asia and Africa. S/he will use databases of species localities to infer species ranges, analyze broad geographic patterns of diversity, and for integrating phylogenetic information with distributional data for historical biogeographic analyses. The postdoc will participate in ongoing research projects but is also expected to take the lead on other studies of their own interest. While the position is research-based, opportunities for teaching are available. The successful candidate should have experience in historical biogeography methods, working with geographical databases of species distributions, and using niche modeling applications, GIS, and other biogeographic programs. Relevant analytical and data handling skills, publication record, and an ability to communicate within a research team are a must. Experience with birds or the Old-World tropics is preferable but not required.

Applicants must have a Ph.D. in biology or a related field. The position is available for 1 year with the possibility for renewal depending on satisfactory performance. Anticipated start date is on or before Jan 1, 2010 and salary is competitive with NSF/NIH rates.

Inquires should be sent to: sreddy6[at]luc.edu. Applications, including CV, research statement, and contact information for three references, should be submitted to: www.careers.luc.edu. Review of applicants will start mid-November and continue until the position is filled.

Loyola University Chicago is an Equal Opportunity/Affirmative Action employer with a strong commitment to diversifying its faculty. Applications from women and minority candidates are especially encouraged.

sreddy@fieldmuseum.org

Madrid GreatBustard PopulationGenetics

POSTDOC: POPULATION GENETICS OF THE GREAT BUSTARD IN SPAIN

We are looking for a postdoctoral researcher to work at the National Museum of Natural Sciences (MNCN) in Madrid, Spain, on the population genetics and phylogeography of the Great Bustard (/Otis tarda/), an endangered steppe bird in the Iberian Peninsula.

The position will be supervised by MNCN researchers Juan Carlos Alonso and Borja Mila and will be framed in the context of the long-term ecological studies carried out by Dr. Alonsos group (http://www.mncn.csic.es/-investigador.php?cat=2&pg=6) on a number of leks and populations in central Spain over the last 15 years. Current goals include the use of molecular methods to advance our understanding of the species genetic diversity and structure, spatial patterns of gene flow, dispersal ecology, individual-fitness correlates, and population viability analysis, among others. Specific objectives will be developed jointly by the selected candidate and the projects PIs. Over 900 genetic samples (blood, tissue and feathers) from adult and immature birds are currently available from 60 different leks from several Iberian populations, and further targeted sampling of Spanish populations can be arranged if necessary.

The three-year position will start by spring of 2011. Competitive postdoctoral fellowships are available from the Spanish Ministry of Science (MICINN - Juan de la Cierva Program) and the Spanish Research Council (CSIC - JAE Doc Program). Official calls for applications for these programs will become available over the next month.

Applicants should have demonstrated an interest in molecular ecology, behavioral ecology

or evolutionary biology, and should have a PhD in these or related fields. Preference will be given to applicants who have extensive experience with molecular genetic methods, including sequencing, genotyping, paternity

analysis, and population genetic analysis.

The National Museum of Natural Sciences is a research center of the Spanish Research Council (www.csic.es[1]) located in Madrid, Spain. You can visit the MNCNs web site at: www.mncn.csic.es[2] Applicants should e-mail a detailed CV, a one-page statement of research interests, and the names and e-mail addresses of two professional references to:

Dr. Borja Mila

Department of Biodiversity and Evolutionary Biology

National Museum of Natural Sciences (MNCN)

Spanish Research Council (CSIC)

Jose Gutierrez Abascal 2, Madrid 28006, Spain

Tel: +34 914111328 x1285

Email: bmila@mncn.csic.es

Web page: www.beb-mncn.es/-index.php?option=com_content&view=article&id76&Itemid38[3]

Borja Mila Museo Nacional de Ciencias Naturales - CSIC Dpt. Biologia Evolutiva y Biodiversidad Jose Gutierrez Abascal 2 Madrid 28006, Spain Tel: +34 914111328 x1285 Cel: +34 665836262 Fax: +34 915645078 Email: bmila@mncn.csic.es, borjamila@gmail.com

www.beb-mncn.es/index.php?option=com_content&view=article&id76&Itemid38

Links: —— [1] http://www.csic.es/ [2] http://www.mncn.csic.es/ [3] http://www.beb-mncn.es/index.php?option=3Dcom_content&view=-3Darticle&id=376&Itemid=338 bmila@mncn.csic.es

MasseyU EvolutionaryPhysiology

We seek a Postdoctoral Fellow with experience in evolutionary physiology, who will combine insect physiology and molecular ecology to compare the evolutionary limits of alpine-adaptation of weta populations in New Zealand. The position is for two years, within the Ecology group of the Institute of Natural Resources, Massey University, New Zealand.

The Postdoctoral Fellow will compare cold adaptation among populations of an endemic insect under the project title ?What limits a weta?? We have a naturally-replicated study system that will allow us to investigate the role of gene flow in limiting or facilitating adaptation on an environmental gradient. High altitude populations of orthoptera species will be compared both in the field and laboratory. The project will combine ecology, insect physiology and population genetic tools to address a fundamental evolutionary question.

You will need a PhD in physiology, or related area of evolutionary biology and have proven research capabilities.

The salary for this position is NZ$62,992 per annum, with two years funding.

Enquiries should be directed to Dr Mary Morgan-Richards (telephone +64 6 356 9099 extn 2043, email m.morgan-richards@massey.ac.nz.) or Dr Steve Trewick (email s.trewick@massey.ac.nz). Online applications are invited via our University website: http:/-/jobs.massey.ac.nz/positiondetail.asp?p=6557 Closing date: 21st November 2010

Thanks,

Mary

– Mary Morgan-Richards

Senior Lecturer/ Mother of Ted & Bee Ecology Group/INR Massey University Private Bag 11-222 Palmerston North NEW ZEALAND

wrk phone +64 +6 356-9099 ext 2043 ext 5412 wrk fax +64 +6 350-5626

Ka hou ki te whenua, he t?ngoungou; ka puta ki te rangi he pepe [The pupa enters the earth; a moth emerges to the sky]

M.Morgan-Richards@massey.ac.nz

Montpellier ComparativePhylogeography

Two-year post-doc position open at the Centre for Functional and Evolutionary Ecology, Montpellier, France

Comparative phylogeography of obligate plant-insect mutualisms in rain forests of Atlantic Central Africa

This two-year post-doctoral fellowship is funded by the ANR (National Research Agency) of France.

We are searching for a population geneticist to study the co-structuring of populations of insects and plants engaged in obligate mutualisms. The aim of the study is to examine responses of populations involved in such

intimate interactions to past and current environmental change. How do obligate specific mutualisms persist in the face of environmental change? Do different demographic and evolutionary responses of mutualist pairs to environmental change affect the stability of mutualisms, or drive their diversification? The successful candidate will apply state-of-the-art analytical methods to a diversity of molecular markers (microsatellites, sequences,...) developed for ant-plants and their protective ant mutualists (Barteria/Tetraponera, Leonardoxa/Petalomyrmex) and for figs and their agaonid wasp pollinators. The study will include laboratory work in molecular genetics and some fieldwork in addition to data analysis and writing.

The successful candidate will join a dynamic research team at the CEFE (http://www.cefe.cnrs.fr/-coev/Default.htm, http://www.cefe.cnrs.fr/ibc/-default.htm), in Montpellier, in the Mediterranean climate of southern France.

Please send application letter and CV to Finn Kjellberg, finn.kjellberg@cefe.cnrs.fr . Review of applications will begin right away, continuing until decision has been made.

Rumsais BLATRIX <rumsais.BLATRIX@cefe.cnrs.fr>

NortherArizonaU BacterialGenomics

Postdoctoral Research Associate in Bacterial Genomics Northern Arizona University, Job ID: 558568

JOB DESCRIPTION: Postdoctoral Research Associate position available in the Center for Microbial Genetics & Genomics, Northern Arizona University (NAU), Flagstaff, AZ. The Center, led by Dr. Paul Keim, specializes in the phylogenetics and population genetics of bacterial pathogens. http://www.mggen.nau.edu/ A diversity of lab skills in genetics/genomics (of any taxa) is required, as well as experience in microbiological culturing techniques. The position will involve genetic analyses of several different bacteria, fungi, and birds including Brucella, Bacillus anthracis, and Geomyces destructans. Primary function will be genomic analysis using Next Generation sequencing platforms, as well as leading lab-based culturing work of various pathogens. Position will require knowledge of phylogenetics and population genetics.

PRIMARY DUTIES: * Next Generation sequencing using Illumina's Solexa, ABI SOLiD platforms, or new platforms. * Work in a BSL3 facility with Select Agents * Developing new genetic assays and using these assays to genetically characterize a variety of microbial pathogens * Applying phylogenetic analyses to better understand evolution of these organisms * Utilizing bioinformatic tools to identify informative genetic signatures * Writing for peer-reviewed publication

REQUIREMENTS: Ph.D. in Biology or related field.

PREFERRED QUALIFICATIONS: Experience in genetic analyses, with knowledge of phylogenetics and population genetics. Experience in next-generation sequencing (Solexa, 454, or SOLiD), real-time PCR genotyping, capillary- based fragment analysis with VNTRs, and Sanger sequencing. Experience with bioinformatics and working in a Select Agent BSL3 environment is highly desired.

LOCATION: Flagstaff is a mountain town (i.e. not in the desert) with tremendous outdoor recreation opportunities, including hiking, skiing, and mountain biking. Pretty amazing spot.

GENERAL: This position has been identified as a safety/security sensitive position. Therefore, per AZ Revised Statute, Northern Arizona University requires satisfactory results for the following: a criminal background investigation, employment history investigation, degree verification (in some cases) and fingerprinting. This position also requires an acceptable Department of Justice Select Agent Program Security Risk Assessment.

SALARY: $41,500 to $44,000

BENEFITS: This is a Service Professional position. NAU offers an excellent benefit package including generous health, dental and vision insurance and retirement. More details on NAU HR website.

DEADLINE: Open until further notice, early application is encouraged. Funding anticipated for at least 2-3 years. Position would ideally start in January 2011.

APPLICATION: To apply and for the official nitty gritty details see staff openings at NAU Human Resources http://hr.nau.edu/node/2797 Click "Careers at NAU" and search for Job ID 558568. No need to fill in all of the past job portions of the NAU application or silly things like awards, job training, etc. If it is in your CV, we'll see it. All we really need is a cover letter with a BRIEF description of research interests, CV, and contact information for at least 3 references entered into the NAU Human Resources system. Upload as one file.

For additional information contact: Jeffrey T. Foster,

Ph.D. Assistant Director Center for Microbial Genetics & Genomics Northern Arizona University Flagstaff, AZ 86011-4073 jeff.foster@nau.edu

Jeff.Foster@nau.edu

NorwayU EvolutionaryQuantitativeGenetics

Dear Evoldir members,

As detailed below, a 3-year postdoctoral position in evolutionary biology is available in the lab of Christophe Pelabon in Trondheim to work on on the quantitative gentics of allometry in close collaboration with Thomas Hansen in Oslo and David Houle in Florida.

Sincerely,

Thomas Hansen

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU)

Faculty of Natural Science and Technology V Department of Biology

POSTDOCTORAL POSITION IN EVOLUTIONARY BIOLOGY (EVOLVABILITY OF ALLOMETRY)

A 3-year postdoctoral fellowship in quantitative genetics is available at the Department of Biology, Norwegian University of Science and Technology (NTNU), Trondheim, Norway. The position is related to the project of Allometry, funded by the Research Council of Norway. The project involves both theoretical and experimental research in quantitative genetics related to the evolvability of allometry. Morphological allometry describes the relationship between the size of body parts and the total body size. Its evolution has recently been questioned in a series of experimental works aiming at changing parameters of the allometric relationship. The project aims at testing some hypotheses by the use of artificial selection and comparative study, but also by developing theoretical models to explore the capacity of allometry to evolve. The project is managed by Christophe Pelabon at NTNU, but the Post-doc will also work in close collaboration with Thomas F. Hansen (Oslo University) and David Houle (Florida State University, USA).

Evolutionary interpretations of existing empirical results on the evolution of allometry have been hampered by the lack of models on allometry solidly grounded into quantitative genetics theory. The post-doc will have a main responsibility to develop realistic biological models defining the relative growth of various traits into the quantitative genetics theory, with the aim to help understanding evolution of allometry and replace it in the mathematical framework of evolutionary quantitative genetics. The work is a close collaboration between NTNU and University in Oslo and the post-doc is expected to work with the teams at both institutions as well as visiting Florida State University where part of the empirical work is conducted.

The successful candidate should hold a relevant PhD and have solid knowledge in evolutionary biology and modelling, but she or he would be also able to develop some experimental work with the different model organisms studied in the project.

The postdoc will be formally employed by the Faculty of Natural Sciences at the NTNU, and will become a member of the Department of Biology. The Department of Biology has 36 members of faculty (professors and associate professors), 22 research scientists and about 70 PhD students and post docs. The department has research programs in evolutionary biology, population genetics, aquatic and terrestrial ecology, conservation biology and biodiversity, ethology, molecular biology, cell biology, plant and animal physiology, toxicology, aquaculture, and marine biology. There is considerable collaboration between the disciplines. More information about the Department of Biology can be found at: http://www.ntnu.edu/biology As NTNU would like to increase the representation of females in academic positions applications from female scientists are encouraged.

The appointment of the postdoctoral fellow will be made according to Norwegian guide for universities and university colleges and to the general regulations regarding university employees.

The annual salary of the postdoctoral position is NOK 448.200 per year according to the government pay-scale for university employees. There is 2% deduction for superannuation.

Please contact Professor Christophe Pelabon, tel +47 73 59 03 39, email: christophe.pelabon@bio.ntnu.no or Professor Thomas Hansen, tel +47 22 85 45 21, email: thomas.f.hansen@bio.uio.no for further information about the postdoc, and in case of questions regarding the application procedure.

Applicants should describe why they want the position and why they are well suited for it. Applications should also include a CV with a complete publication list, 3 selected publications (or manuscripts), documentation of

educational background and other relevant experience, and 3 named references (incl. email and phone no.). Please include a brief description of the applicants contribution in cases of multi-authored publications (submitted or listed in the CV) where the applicant is not the first author.

Applications should be submitted electronically through http://www.jobbnorge.no. Application deadline: December 31th 2010. Reference number: NT-52/10.

detailed announcement of the position can be found at the NTNU home page http://nettopp.ntnu.no , at www.nav.no, and at www.jobbnorge.no.

— / —

QueensU Belfast BeeParasiteEvolution

3 year postdoc on bee-parasite relations

A postdoctoral researcher is sought for a recently funded project on the ecology and evolution of honey bee â parasite interactions within Robert Paxtonâs and James Murrayâs labs at Queenâs University Belfast (UK) and the University of Halle (Germany) (Reference: 10/101576). The goals of the research are to understand interactions among parasites (Nosema ceranae and Deformed Wing Virus) and their impact on bee health and immunity. The post-holder will contribute to the recently funded BBSRC/Insect Pollinators Initiative project âImpact and mitigation of emergent diseases on major UK insect pollinatorsâ (collaborating PIs are Dr Juliet Osborne, Rothamsted Research UK, and Dr Mark Brown, Royal Holloway University of London; see:

http://www.bbsrc.ac.uk/funding/opportunities/-2009/insect-pollinators-initiative.aspx that explores the current and future risks of pathogens for the UKâs honey bee and bumble bee populations. Research will involve cell culture techniques, lab and field-based experiments (in the UK and Germany) as well as molecular genetic analysis of bee pathogens. We seek a highly motivated individual with an interest and experience in host-parasite interactions or insect immunity as well as molecular genetic skills, preferably with a background in or knowledge of genomics or analysis of next generation sequence data. Candidates must be willing to undertake experimental work with adult honey bees.

Salary: Â£29,853 - Â£38,951 per annum (including contribution points), on-line application only. For further information and to apply on-line:

http://www.qub.ac.uk/sites/QUBJobVacancies/-OtherJobs/ResearchJobs/ and search for position 10/101576. Closing Date: Monday 20th December 2010. It is anticipated that interviews for the position will be held on Thursday 13th January 2011.

For further information about the post, contact Dr Tom Murray (tomas.murray@zoologie.uni-halle.de).

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

Roscoff Algal SexChromosomes Evolution

Post-doc position on the evolution of genetic sex determination in brown algae

A one-year post-doc position is open at Roscoff's Biological Station (France) to work on the evolution of sex chromosomes in brown algae. The project builds upon preliminary work that has identified a 1 Mbp non-recombining genomic region involved in sex determination in the model brown alga /Ectocarpus/ /siliculosus/ (whose complete genome sequencing has been coordinated by the host lab, /Cock et al. Nature 2010/). This corresponds to the first data on the genetic basis of sex determination in macroalgae. The aim of the post-doc is to explore the molecular evolution of this sex-determination system (history of divergence between the male and female regions, evolutionary consequences of the loss of recombination, conservation of the system in other brown algae). A collection of strains from /E. siliculosus/ and closely related species is already available in the host laboratory; other strains may be collected during the project. The work will involve choosing and obtaining sequences of interest to explore the evolution of this system, and bioinformatic analyses.

The work will be done in collaboration with Susana Coelho and Denis Roze at Roscoff's Biological Station (www.sb-roscoff.fr/en/genetique-algues.html < http://www.sb-roscoff.fr/en/genetique-algues.html >; http://www.sb-roscoff.fr/en/bedim.html < http://-

www.sb-roscoff.fr/en/bedim.html >), and with Gabriel Marais at the University of Lyon (http://lbbe.univ-lyon1.fr/-Marais-Gabriel-.html). Candidates should have a PhD degree in genetics/genomics, and a strong interest in population and/or evolutionary genetics. Experience with /Ectocarpus/ or other algae is not required. Fluency in English is essential, as are excellent oral and written communication skills. French is not required, although it will help for everyday life.

Contact: coelho@sb-roscoff.fr, roze@sb-roscoff.fr

roze@sb-roscoff.fr

RutgersU AlgalEvolution

Postdoctoral and PhD positions are available in the lab of Debashish Bhattacharya at Rutgers University (http://dblab.rutgers.edu/home/index.php). Our group is housed in spacious and modern facilities in Foran Hall at Rutgers University, which is less than 1 hr from downtown New York City. The Bhattacharya lab has an Illumina sequencer, high performance computing facilities, and extensive tools for molecular biology research. In addition to our collaborators inside and outside the USA, we are affiliated with a broad range of marine, ecological, and genetics researchers at Rutgers that offers an intellectually stimulating training environment.

The postdoc and PhD positions would be involved in funded projects using de novo sequencing and functional genomic approaches to understand algal evolution or to conduct biofuel research (http:/-/biotech.rutgers.edu/PDFs/IGERT_flyer.pdf). The postdoc position is initially for 1 year with the possibility for extension based on performance. This individual should have a strong background in evolutionary genomics, molecular evolution, and bioinformatics. Familiarity with the UNIX environment and routine scripting is required. Experience in next-generation sequencing methods, relational databases and high-performance computing are a plus. The postdoc is expected to be a team player who can work independently, travel to conferences and meetings, contribute to grants, and generate publications. Postdoc salary will be commensurate with experience. PhD students should have a strong interest in genomics and evolution and will be trained in modern approaches in these areas. PhD students will affiliate with the Department of Ecology, Evolution and Natural Resources (http:/-/www.rci.rutgers.edu/~deenr/), the Institute of Marine and Coastal Science (http://marine.rutgers.edu/-main/), or the Graduate Program in Molecular Biosciences (http://lifesci.rutgers.edu/~molbiosci/).

The positions are open to US and international researchers/students but strong English skills are required. Postdoc applicants should submit a CV, letter of intent describing motivation, qualifications, and experience relevant to this position, and contact information for three references. PhD applicants should send a CV and a letter describing their motivation and prior experience. Send all application materials to cariveau@aesop.rutgers.edu. Review of applications will begin immediately. Please visit our lab website for additional information about our research interests and recent publications.

Best regards,

Debashish Bhattacharya

Professor, Department of Ecology, Evolution and Natural Resources

Institute of Marine and Coastal Science

Rutgers University, New Brunswick, NJ 08901, USA

Telephone: (732) 932-8165 ext. 184

Email: <mailto:bhattacharya@aesop.rutgers.edu> bhattacharya@aesop.rutgers.edu

cariveau@AESOP.Rutgers.edu

Seattle FishEvolution

Post-doctoral fellowship opportunity Genetics and Evolution Program Northwest Fisheries Science Center Seattle, Washington

We are in the process of conducting long-term studies that use parentage analysis to evaluate how factors such as wild/captive origin, size, age, spawning location, and morphology contribute to variation in individual reproductive success in Pacific salmon and steelhead populations. We are seeking a post-doctoral researcher to add a genomic and quantitative genetic component to these studies. We are particularly interested in evaluating the genetic basis and the genetic architecture of individual and group level variation in reproductive success and related traits and characterizing the form and intensity of natural selection on these traits. We are seeking an outstanding PhD level candidate with a proven track

record in innovative collection and/or analysis of genomic data to address ecological or micro-evolutionary questions.

The fellowship is funded and administered through the National Research Council's Research Associateship Program. See http://sites.nationalacademies.org/pga/rap/ for program information. The opportunity number associated with this position is 26.03.39.B4639 and the application deadline is February 1, 2011. We anticipate a starting date in summer or fall of 2011. Potential applicants are strongly encouraged to first contact Michael Ford (mike.ford@noaa.gov) to learn more about this opportunity before starting the RAP application process. See http://www.nwfsc.noaa.gov/research/divisions/cbd/gene.cfm for more information about Genetics & Evolution Program.

Mike.Ford@noaa.gov

SeoulNatlU EvolutionDiseaseResistance

Post-Doctoral Fellow: Evolution of Resistance to Chytridiomycosis in Amphibians Seoul National University, Korea

We are seeking to appoint a Post-Doctoral Fellow to work on a three-year project on "Responding to the Amphibian Disease Crisis: Mapping Spread of a Pathogenic Fungus and its Immunological Effects on Infected Populations" funded by the National Research Foundation of Korea and the Seoul National University Brain Fusion Program.

The Post-Doctoral Fellow will conduct research on how chytrid fungus affects Asian amphibian populations. The research will track the spread of the pathogen to naive populations and examine selection for evolutionary responses in MHC genes that may confer immunity on infected individuals. The amphibian chytrid fungus only recently was discovered infecting frogs in Korea, its first documented appearance in mainland Asia. This provides a good platform for addressing basic and applied questions in disease ecology and conservation biology.

The project involves collaboration between the College of Veterinary Medicine and the School of Biological Sciences at Seoul National University. The successful candidate will have ample opportunities to interact with Korean colleagues and with our international collaborators in Australia, New Zealand, and the United States.

Experience in molecular biology with a strong interest in evolution is desirable. Research will be conducted in well-equipped, modern laboratory facilities.

Seoul National University is one of the leading universities in Asia and ranks 24th internationally in Life Sciences & Biomedicine (Times Higher Education, 2009). The campus is set in a mountain reserve on the outskirts of Seoul and offers excellent opportunities for outdoor activities as well as the full range of cultural activities of an exciting highly urbanized city. Subsidized housing and meals are available on campus.

Applications should include a curriculum vitae, names of three referees, university transcripts, and a brief statement of research interests and goals. Submissions by email are encouraged.

For more information, please contact Prof Bruce Waldman, email: waldman@snu.ac.kr; telephone +1 512 782 9905 (USA) or +82 10 8686 2121 (Korea); FAX +1 425 871 2891.

Bruce Waldman School of Biological Sciences Seoul National University 599 Gwanak-ro, Gwanak-gu Seoul 151-747 South Korea

http://biosci.snu.ac.kr/professor/484 Bruce Waldman <waldman@snu.ac.kr>

StandfordU CoralGenomicsAdaptation

A postdoctoral position in reef coral genomics and adaptation at Stanford University's Hopkins Marine Station in Pacific Grove, CA

DESCRIPTION:

We seek a postdoctoral researcher to join a funded collaborative project on the role of environmental variation on the evolution and genomics of reef coral resilience. The project seeks to understand the role of variation in temperature and pH on gene expression, growth and survival of corals and their intracellular symbionts. The field site is in American Samoa, and the collaborating partners are at Hopkins Marine Station (Steve Palumbi), the Stanford Genetics Department (John Pringle) and the Carnegie Institution of Washington at Stanford University (Arthur Grossman). This position is based at the Palumbi lab and is concentrated on the role of individual coral microclimate

and genotype on gene expression profiles under natural variation in temperature and pH. It also includes experiments on stress resilience of corals under experimental conditions.

REQUIREMENTS: Ph.D. in Biology or related field

PREFERRED QUALIFICATIONS: Experience in one or more of the following diverse list of skills: molecular population genetics, DNA sequencing and population analysis, high throughput sequencing, RNA Seq protcols and bioinformatics, coral population ecology and demography, calcification biology, the physiology of acclimatization, application of population genetic theory to real populations. We realize this is an oddly broad list but this is a broad project.

APPLICATIONS: Please send a cover letter detailing your qualification, a cv and names of three references to Steve Palumbi at spalumbi@stanford.edu. The position is available as of Jan 1, 2011. It is initially for one year with possibility of renewal.

Lab web page: http://palumbi.stanford.edu/ General public description of overall project: http://www.stanfordalumni.org/news/magazine/2010/julaug/features/palumbi.html Microdocumentary project description for audiences in American Samoa: http://microdocs.org Stephen Palumbi Director, Hopkins Marine Station Jane and Marshall Steele Jr Professor of Biology Stanford University Pacific Grove, CA 93950 (831) 655-6214 spalumbi@stanford.edu http://deathandlifemontereybay.stanford.edu Stephen Palumbi <spalumbi@stanford.edu>

TrentU ConservationGenomics

Post-Doctoral Fellowship in Conservation Genomics Trent University

Natural Resource DNA Profiling & Forensic Centre We are seeking a post-doctoral fellow with research interests in Molecular Genetics and Genomics related to Conservation Biology to examine a large-scale distribution of woodland caribou and associated ecotypes. The candidate should have strong molecular genetic experience in DNA analyses, sequence analyses, genetic profiling and phylogenetic analyses. Experience in next-generation sequencing will be considered an asset as will population genetics and/or landscape genetics. This research will be integrated within an on-going large-scale Caribou Landscape Genetic project under the supervision of Drs. Paul Wilson (Trent University) and Micheline Manseau (University of Manitoba, Parks Canada). The successful candidate should have good communication skills and an ability to work well in a team environment with collaborators and stakeholders.

Application Procedures

Applicants should hold a PhD in Molecular Genetics, or a related area, e.g. Molecular Ecology or Conservation Genetics. All candidates should submit a letter of application, curriculum vita, and names and contact information for three referees to Dr. Paul Wilson, Canada Research Chair in DNA Profiling, Forensics and Functional Genomics, Department of Biology, Trent University, 1600 West Bank Drive, Peterborough, ON Canada K9J 7B8 (email: pawilson@trentu.ca, web page: web.me.com/pauljwilson/Wilson_CRC/Home.html). The search will close as soon as a suitable candidate is found. This position has a commitment of a two-year term with an ideal start date of January 1, 2011, although negotiable. A third year may be available pending satisfactory progress and funding.The project is funded through a Strategic NSERC grant and the successful Fellow will receive $40,000 annually.

pawilson@trentu.ca

TUDelft Netherlands FlagellumEvolutionaryDynamics

Postdoc experimental evolutionary dynamics of the bacterial flagellum

A postdoctoral position to study the evolutionary dynamics of the bacterial flagellum is available in Hubertus Beaumont[1]s lab at the TU Delft Department of Bionanoscience (The Netherlands).

Research in this new department employs the tools of molecular biology, nanotechnology, experimental ecology & evolution, biophysics and synthetic biology to study fundamental biological questions. The Beaumont Lab seeks insight into the mechanisms behind the creative potential of evolution by mutation and selection - from molecules to ecology.

Evolutionary adaptation and innovation are believed to be facilitated by the hierarchical modular architecture of organisms. Although this notion is very well supported by comparative evidence, understanding of the real-time evolutionary dynamics of complex phenotypes

is limited.

The project, which started recently, uses the bacterial flagellum as a model to quantify the evolutionary modularity of a complex phenotype and examine the evolvability it affords. Our approach combines experimental evolution, directed protein evolution, microbial physiology and single molecule biophysics to explore the extent to which mutation & recombination affect modular phenotypic change, and to determine the patterns of adaptive trajectories under different regimes of genetic variation. The postdoctoral researcher will develop a research line within this theme in collaboration with the PI and with the support of a technician.

Qualified candidates have a PhD in experimental evolution, microbiology, biochemistry, biophysics or a closely related field, and have a strong interest in the multidisciplinary investigation of evolutionary dynamics. The appointment will be for an initial period of 1.5 years. To apply or to request additional information, please send an email to Hubertus Beaumont (h.j.e.beaumont@tudelft.nl). Formal applications should include: i) a curriculum vitae, ii) a description of why you are interested in this specific research topic, and iii) contact information of two potential references.

H.J.E.Beaumont@tudelft.nl

UAlabama GreenAlgalEvolution

Postdoctoral Research Associate position available in the lab of Juan Lopez-Bautista at The University of Alabama (http://www.as.ua.edu/phycolab/). Our laboratory is focused on the systematics, biodiversity and evolution of algae. The University of Alabama is located in Tuscaloosa, AL (50 min from Birmingham).

This opportunity involves participation in an NSF-funded AToL project GRAToL: Assembling the Green Algal Tree of Life. This investigation is aiming to study the systematics and phylogenetic relationships of green algae, in particular the class Ulvophyceae, using a multi-gene dataset. Primary responsibilities will include DNA isolation, sequencing, and molecular phylogenetic analyses.

Candidates with a Ph. D. degree in Biology or a relevant field and with significant expertise in molecular phylogenetic analyses and molecular evolution are required. Familiarity with the biology of algae, and ability for independent research are desirable. Salary and benefits will be determined on the basis of applicant's qualifications. Funding is available for three years.

Applicants should send a) letter of intent describing the candidate's motivation, qualifications, skills, and experience relevant to this position, b) curriculum vitae, and c) three letters of recommendation. Please reference #0804361 when applying at Human Resources through www.ua.edu Access this webpage to apply for this position: facultyjobs.ua.edu/applicants/Central?quickFindV942

Review of applications will begin immediately and will continue until the position is filled.

Juan M. Lopez-Bautista Department of Biological Sciences The University of Alabama P. O. Box 870345 425 Scientific Collections Bldg., Tuscaloosa, AL 35487-0345 Ph Office (205) 348-1791; Lab (205) 348-4263/5844 Fax (205) 348-6460 http://www.as.ua.edu/biology/jlopez-bautista.htm jlopez@UA.EDU

UBritishColumbia Modeling multi-specific coevolution

We are looking for a postdoctoral scientist interested in developing mathematical models of ecological and evolutionary processes within multi-species communities. Although the specific questions to be addressed are open, the basic aim is to derive systems of differential or difference equations from a description of interactions among phenotypically variable individuals for a variety of ecological interactions (such as competition, predation, and mutualism) to model the joint population and evolutionary dynamics of communities. The work is part of an ongoing collaboration between Scott Nuismer, Richard Gomulkiewicz, and Michael Doebeli to develop a theoretical framework for coevolution between multiple species.

The position is available for one year, and will be based in either the research group of Michael Doebeli (University of British Columbia; Vancouver) or the joint research group of Scott Nuismer (University of Idaho; Moscow) and Richard Gomulkiewicz (Washington State University; Pullman). Applicants should have a PhD, a background in evolutionary biology or ecology, and an interest in developing and analyzing mathematical models of species interactions. For more information please contact Scott Nuismer (snuismer@uidaho.edu), Richard Gomulkiewicz (gomulki@wsu.edu), or Michael

Doebeli (doebeli@zoology.ubc.ca).

snuismer@gmail.com

UCaliforniaBerkeley PopulationGenomics

Subject: Postdoctoral Position in Population Genomics at UC Berkeley

We are currently seeking qualified applicants for a postdoctoral position to study population genomic diversity in a keystone plant-microbe symbiosis (pines and ectomycorrhizal fungi). The position is part of a collaborative project to examine multiple levels of diversity (genetic, functional and taxonomic) for ectomycorrhizal fungi across across North America. The population genomics postdoc will be housed at UC Berkeley and will use next generation sequencing to compare genomes across populations of closely related species to find islands of introgression, increased rates of nonsynonomous subsitutions, accelerated rates of divergence, and gene duplications, building on similar work at Berkeley on two other fungi, Coccidioides and Neurospora.

The position is funded under a collaborative research grant between the Univ. of Minnesota (Kabir Peay), Univ. of California Berkeley (Tom Bruns & John Taylor) and Duke University (Rytas Vilgalys). Representative publications from the respective PI's can be found below. The postdoc will have frequent opportunity to interact with PI's at all three institutions during annual project meetings and field work.

Interested candidates should send (1) a cover letter explaining interest and relevant qualifications (e.g. technical or analytical skills), and (2) a CV listing education, relevant publications and contact information for 4 references to Kabir Peay (peay0001@umn.edu). Applicants should have a PhD or plan to complete their degree by summer of 2011. Positions will be funded for 1 year with the possibility of multi-year extensions. Start date is somewhat flexible but applicants should anticipate starting around summer or Fall 2011.

Lab Webpages:

Vilgalys Lab (Duke University): http://fds.duke.edu/db/aas/Biology/faculty/fungi Taylor Lab (UC Berkeley): http://pmb.berkeley.edu/~taylor/people/jt.html Bruns Lab (UC Berkeley): pmb.berkeley.edu/~bruns/people/tb.html

Peay Lab (Univ. of Minnesota): plpa.cfans.umn.edu/Kabir_Peay.html

peay0001@umn.edu

UDelaware AphidParasitoidEvolution

Postdoctoral Research Associate - The Beneficial Insect Introductions Research Unit seeks a post-doctoral research associate for research on the evolution and genetic architecture of host specificity in aphid parasitoids. The research will involve determining the genetic architecture of differences in host specificity among species of aphid parasitoids in the genus Aphelinus and testing whether Aphelinus species introduced for biocontrol of exotic aphids have evolved to parasitize endemic aphids. The work will involve development and analysis of molecular markers (SNPs) for genetic mapping, as well as bioassays. A recent Ph.D. in Genetics, Molecular Biology, Entomology, or Ecology is required. Knowledge of quantitative genetics and QTL mapping and experience in molecular biology will be needed. The position is for 2 years, starting January 2011, with an annual salary of $61,254 plus benefits. Please send curriculum vitae and names, addresses (including e-mail), and phone numbers of three references to Dr. Keith R. Hopper, USDA-ARS, 501 South Chapel St., University of Delaware, Newark, Delaware 19713; email khopper@udel.edu, telephone 302-731-7330 ext 238, fax 302-737-6780. ARS is an equal opportunity employer.

Keith Hopper <khopper@UDel.Edu>

UFlorida EvolutionaryGenomics ComputationalBiology

Postdoctoral Position - Evolutionary Genomics and Computational Biology Lab University of Florida Bryan Kolaczkowski, PI

Are you interested in evolutionary genomics and computational biology? Do you want to apply your research to understand and combat human disease? We are looking for rising stars to help build an internationally-

recognized research program using analysis of genomes, gene families and protein interaction networks to understand the evolution of innate immunity, host-pathogen interactions and genetic disease.

We are seeking talented, motivated and creative postdoctoral researchers to join our new lab in the Microbiology and Cell Science Department at the University of Florida. We are a primarily-computational lab using comparative and population-genomic data from humans, flies and plants to understand how evolution contributes to disease and disease-immunity. We have ties to the Genetics Institute and the Emerging Pathogens Institute, with opportunities to interact with a diverse range of faculty, postdoctoral and graduate- student researchers across campus. We also maintain collaborations with researchers at Dartmouth College, UC Davis and UNC Chapel Hill.

The ideal candidate will have a strong interest and/or experience in evolutionary biology, genomics and/or computational biology. Other desirable skills include a knowledge of statistics and/or computer programming. We are looking for researchers interested in using an evolutionary perspective to solve real-world problems and capable of developing innovative research projects. We are a new lab, so this is an exciting opportunity for the right individual to help guide the direction of a larger research program while pursuing their own career development.

More information about our research can be found at:

http://microcell.ufl.edu/egcb_lab/ Informal inquiries are welcome. To apply, please send a CV and 1-page summary of research experience and interests to:

Bryan Kolaczkowski bryank@ufl.edu

Start date is flexible but could be as early as Winter or Spring of 2011.

bryan.kolaczkowski@gmail.com

UHongKong ClimateAdaptation

Postdoc and Graduate position Vacancies in Ecological Demography

The University of Hong Kong is looking to recruit at the postgraduate and postdoctoral levels with projects which seek to understand how wildlife populations respond and adapt to environmental change.

The projects will be based in the Laboratory of Wildlife Demography, School of Biological Sciences, but will involve interactions with other departments in the Faculty of Science and beyond. The projects will combine insights from several disciplines, most notably ecology, evolutionary biology, demography, statistics, and climatology. There will be an emphasis on understanding how changing climatic conditions can affect wildlife population processes. Attention will be given to the ecological consequences of change in not just average temperatures but also in other aspects of climate such as inter-annual variability. The projects will involve analysis and interpretation of long-term wildlife population data, including data on wetland birds. More information can be found at http://www.biosch.hku.hk/-dthomson/home.html . Applicants should have good academic track records with a relevant university degree. The projects will require the ability to develop not just an interest in ecology, but also strong analytical skills and the full range of abilities needed to follow an interdisciplinary research project through to fruition. Versatility and excellent communication will be required as the projects will involve the comprehension, synthesis and presentation of ideas from quite different fields. The University of Hong Kong operates in English, and language fluency is a requirement.

Applications should include a CV with a statement of academic interests and relevant experience, full academic transcripts for all qualifications, a list of any publications, and the contact details of 3 referees. Applications should be submitted by e-mail (apply-wildlife-demography-2010@hku.hk) to Dr. David L. Thomson.

Review of applications will begin right away, continuing until decisions have been made and recommendations on all available positions have been passed to the respective university committees for approval.

Postdoctoral appointments: funding is already available and appointments can commence as soon as possible after a formal offer has been made by the university and once the candidate has been awarded their degree of PhD. Postdoctoral appointments will be of 1 year duration with further extension being dependent on the availability of funding.

Postgraduate appointments (funding already available): in some cases, funding has already been allocated to these projects and appointments can commence as soon as possible after a formal offer has been made by the university and after an appropriate undergraduate degree has been awarded. MPhil appointments can be completed in two years, PhD appointments can be completed in four years though this can be reduced to three if the candidate already holds an appropriate Masters

degree.

Postgraduate appointments (funding available in competition): as well as postgraduate positions for which funding is already allocated to the above research line, further scholarship positions are also available from the university in open competition, and strong candidates will receive the necessary endorsement and assistance with that process. That endorsement should be sought now as the applications for those scholarships need to be submitted by 1st December for the main round. There are further clearing rounds in May and September. Those appointments will normally be taken up at the start of the coming academic year after a formal offer has been made and after award of an undergraduate degree. See http://www.hku.hk/gradsch/web/ for more information on postgraduate scholarships.

The University of Hong Kong ranks among the worlds top 25 universities and is recognised as the best university in Asia. Appointments are internationally competitive and the successful candidates will have access to all that is needed to work effectively and live comfortably in Asias world city. Further information is available at http://www.hku.hk . Dr. David L. Thomson Associate Professor School of Biological Sciences University of Hong Kong Kadoorie Biological Sciences Building Pok Fu Lam Road Hong Kong

Tel./Fax (+852) 22990665 Mobile (+852) 66265350 Website: http://www.biosch.hku.hk/dthomson/-home.html

Visit http://www.hku.hk to learn more about why the University of Hong Kong is ranked among the world's top 25 universities and as the best in Asia

"David L. Thomson" <dthomson (at) hku.hk>

UKonstanz PlantAdaptation

Postdoctoral position in plant ecology at University of Konstanz

I am seeking a postdoctoral assistant to join my new group at the University of Konstanz in Germany. My group will focus on questions related to invasive plants, rare plants, responses of plants to global change, phenotypic plasticity and adaptation, and pollination and reproduction. The University of Konstanz is one of the nine Universities of Excellence in the Federal Republic of Germany, and is located on a small campus in the forests just outside the beautiful university town of Konstanz at the shore of Lake Constance.

Duties:

- Assisting me in building-up a plant-ecology lab

- Research on one of the topics mentioned above

- Teaching and supervision of students (4 hr a week during the semester).

Requirements:

- A PhD degree and two or more years of postdoctoral experience in plant ecology.

- Experience with one or more of the following approaches, large (multi-species) experiments, database studies and meta-analyses.

- Experience in using molecular markers.

- Strong statistical skills

- A strong publication record

The salary will be at scale 13 TV-L . If you are interested in this position, please, send a single PDF or Word document, including a letter of application, a CV, a list of publications and the contact details of three references, to vkleunen@ips.unibe.ch before 30 November 2010. The preferred starting date is 1 February 2011. Initially the position will be for a period of four years, but extension is possible. For more information, contact Mark van Kleunen at vkleunen@ips.unibe.ch.

Mark van Kleunen <mark.vankleunen@ips.unibe.ch>

ULouvain EvolutionLifeHistory

Biodiversity Research Centre - Earth and Life Institute Université catholique de Louvain (UCL), Belgium

Postdoc on the evolution of dispersal and life history traits in relation to phenotypic plasticity

A two-year postdoctoral position is available at the Biodiversity Research Centre, Earth and Life Institute, University of Louvain-la-Neuve (UCL) in Belgium (http://www.uclouvain.be/en-bdiv.html). Focus will be on the evolution of life styles by means of artificial selection performed in lab-controlled environments. The framework of this position is a collaborative 5-year project by a highly active and integrated set of three collaborating research teams, including faculty (Profs. Hans Van Dyck, Nicolas Schtickzelle and Caroline Nieberding), other postdocs and PhD students.

The project aims for 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 unicellular eukaryotic ciliate Tetrahymena thermophila).

According to the model organism, life styles that can be studied involve suits of interrelated plastic traits related to dispersal, sexual selection, kin selection... The work will use GxE experiments to quantify the slope and range of variation of plasticity, and will study the functional significance of plasticity in terms of adaptation and adaptability through a set of experimental evolution experiments. Of particular interest are: (1) the evolution of dispersal, sociality and demographic traits in Tetrahymena thermophila; (2) the evolution of dispersal in Tetranychus urticae; and (3) the relative role of female preference versus male display in the evolution of sexually selected traits (sex pheromone) in Bicyclus anynana. In addition to these lines, the successful applicant will also have the opportunity to develop additional questions related to the main research program, and to participate in more conceptual and review works.

We are looking for a strongly motivated candidate with a PhD in the field of Evolutionary Biology and Ecology with successful experience in one or several of these aspects: experimental evolution, quantitative genetics, life history trade-offs analysis, design and implementation of large scale lab experiments, statistics. Strong written and oral communication skills are essential. Salary ranges between 2000-2200 euros netto per month plus benefits (health insurance,) which are included in the Belgian system. The successful applicant must not have stayed in Belgium more than 24 months out of the last three years. For practical information concerning salaries, benefits, insurances and conditions of eligibility please contact Mrs. D. Socquet at UCL (dominique.socquet@uclouvain.be; +32 (0) 10 47 2720). Applications will be reviewed directly until position is filled. Anticipated start date is January- March 2011 (to be negotiated). Our University is an Equal Opportunity/Affirmative Action Employer, and is in a French-speaking region, but the language for meetings and scientific interactions is English. For background information about our university, see http://www.uclouvain.be/en-index.html

Application should be sent to Hans Van Dyck (hans.vandyck@uclouvain.be), Nicolas Schtickzelle (nicolas.schtickzelle@uclouvain.be) and Caroline Nieberding (caroline.nieberding@uclouvain.be) and include the following: (1) a cover letter describing your research interests and qualifications, (2) a full CV, (3) contact information (email, phone number) of minimum 2 referees, and (4) pdfs of up to three representative publications. Please include ≪ postdoctoral application ≫ in the subject line of the e-mail. Informal inquiries are welcome.

Nicolas Schtickzelle <nicolas.schtickzelle@uclouvain.be>

UMontana PlantEvolutionaryGenetics

A postdoctoral position is available in the lab of Lila Fishman at the University of Montana. We study the evolutionary genetics of speciation, adaptation, and fitness variation in Mimulus (monkeyflowers). The postdoc will focus on a project investigating the mechanisms and consequences of selfish chromosomal segregation (female meiotic drive) in yellow monkeyflowers (see Fishman & Saunders 2008, Science 322, 1559 for more on this system).

This integrative project includes cytogenetics (DNA/antibody FISH to chromosomes) to test whether female meiotic drive is centromeric in origin and mechanism, genetic mapping of potential suppressors of drive, molecular population genetic analyses of the drive region and centromeric proteins, and field and greenhouse experiments to fully characterize the costs of drive. The postdoc's primary responsibility will be the cytogenetics and molecular evolution components of this integrative project, which are enabled by whole genome sequence for M. guttatus (www.Phytozome.net) and re-sequence data from driving and nondriving lines. The postdoc will also be encouraged to develop his/her own research directions and to participate in outreach and training activities associated with the drive project, which is funded by an NSF CAREER grant. The ideal candidate will have a strong laboratory background in molecular cytogenetics, genetics, and/or genomics, as well as excellent writing skills and a strong interest in evolutionary processes.

The postdoc will be based in the Fishman Lab (http://-dbs.umt.edu/research_labs/fishmanlab/) at the University of Montana, located in the beautiful and livable town of Missoula, halfway between Yellowstone and Glacier National Parks. The cytogenetics projects will also involve work in collaborating labs at the University of Georgia. Funding is available for two years, subject to review after the first year, and with expected start-

ing salary of $35,000-38,000 (plus benefits) depending on qualifications. The preferred start date is no later than June 2011, but flexible for the right person.

For more information, or to apply, please contact Lila Fishman (lila.fishman@mso.umt.edu). Applicants should send a letter of interest and CV, including names and contact info for three references, as a single pdf. Review of applications will begin Dec. 1 and continue until the position is filled.

– Associate Professor Division of Biological Sciences University of Montana Missoula, MT 59812

phone: (406) 243-5166 fax: (406) 243-4184

lila.fishman@mso.umt.edu

UNebraska CompBiologist

Computational Biologist/Programmer at the University of Nebraska Lincoln

The Nebraska Center for Virology is looking for a highly motivated and enthusiastic computational biologist with a proven track record in the area of bioinformatics. The candidate will collaborate with groups working on microbial genomics from a number of human, animal and plant viruses including HIV, herpesviruses, papilloma, influenza, pox and algal viruses.

The successful applicant will actively participate in the design of next generation sequencing analysis pipelines and the analysis of next generation sequencing data. In addition the candidate will be responsible for carrying out further bioinformatics data analysis.

The Nebraska Center for Virology is a Center of Biomedical Research Excellence (COBRE) addressing pathogenic and therapeutic questions of some of the most devastating viral diseases.

The position requires a highly motivated, enthusiastic and independent individual with a PhD in Computational Biology/Genomics/Computer Science/Applied Mathematics, strong analytical and programming skills (C/C++, perl/python, R, UNIX environment). Background in viral genetics will be a strong plus but is not essential. Experience with transcriptomics or the analysis of next-generation sequence data is also desirable.

Informal inquiries about the projects are encouraged. For more information about the Center please go to www.unl.edu/virologycenter Applicants should submit a cover letter describing previous experience and fit to the position, full CV and contact information for 3 references. Applications and all queries may be sent to Dr Charles Wood at cwood1@unl.edu

Charles Wood, PhD Director, Nebraska Center for Virology Lewis Lehr/3M University Professor School of Biological Sciences University of Nebraska Rm 102C, Morrison Center, 4240 Fair St Lincoln, NE 68583-0900

damientully@gmail.com

UNebraska-Lincoln MicrobeQTL

Postdoctoral Position in Microbiome Mapping:

Our Microbiome mapping team here at the University of Nebraska has a postdoctoral position available and we are looking for a highly motivated individual to join this discovery group. An example of the type of work this position would be engaged can be found in our recent publication in PNAS: http://www.pnas.org/-content/early/2010/10/04/1007028107.abstract and also here: http://www.genomeweb.com//node/-951561? hq_e=el&hq_m0473&hq_l=3&hq_vÅ61f8b653 Additional information can be found at the gut function web site (http://foodsci.unl.edu/gutfunctioninitiative). The incumbent will be part of a mutli-disciplinary and multi-institutional team working with some of the most sophisticated murine and bovine mapping populations available.

See below for the application details.

Etsuko Moriyama University of Nebraska-Lincoln 403 Manter Hall Lincoln, NE 68588-0118

Email: emoriyama2@unl.edu

==Post-Doctoral Research Associate This is a non-tenure leading post-doctoral research associate position established for a period of two years. Continuation of this position beyond two years is contingent upon the availability of grant funding and satisfactory accomplishment of assigned duties, up to a maximum of five years. Responsibilities: Engage a vigorous basic research program focused on Quantitative Trait Locus (QTL) analysis of microbiome “traits” in murine and bovine systems. Effort will be devoted to two major areas with respect to microbiome traits; identification of complex patterns of microorganisms that behave as quantitative traits and identification of functional characteristics of the microbiome that behave as quantitative traits. Statistical analy-

ses and algorithms will be developed and/or adapted for identifying patterns in microbial populations based on high-throughput sequence analysis of 16S ribosomal DNA genes. Databases and pipelines will also be established for identification of functional characteristics from metagenome data. Will function as part of a multi-disciplinary bioinformatics team focused on QTL analysis of microbiome traits and will work independently on algorithm, database, and pipeline development for microbial trait identification and then as part of a larger team for QTL analysis of the traits. Results are expected to be published in peer-reviewed journals and other professional publications. Participation in the Gut Function Initiative is also expected. To be considered for this position, go to http://employment.unl.edu, requisition 100660 and complete the Faculty/Academic Administrative form. Applicants must attach a letter of application, curriculum vitae, and names and complete contact information for at least three references. Review of applications will begin January 3, 2011, and continue until the position is filled. Applicants must be eligible to work in the United States. All hires are subject to final budgetary approval. The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through affirmative action, equal opportunity, work- life balance, and dual careers.

emoriyama2@unlnotes.unl.edu

UNevada EvolutionaryBiol

Postdoctoral Scholar in Evolutionary Biology at the University of Nevada, Reno

We are seeking a postdoctoral scholar to join a National Science Foundation funded investigation of maternal inheritance of mitochondria as a constraint on male adaptation. Using the pseudoscorpion, Cordylochernes scorpioides, as a model system, the research encompasses whole-genome mitochondrial DNA sequencing, sperm competition studies and analyses of traits important in sperm competitive ability.

Minimum requirements are a Ph.D. in evolutionary biology, evolutionary genetics, molecular genetics or related field, and a record of publication in peer-reviewed journals in evolutionary biology. Applicants with expertise in DNA sequencing, DNA profiling and arthropod dissection/microscopy are especially desired.

Review of applications will begin Dec 15, 2010 and will continue until a suitable candidate is identified. To apply for this position, you must submit: 1) CV; 2) letter of application/cover letter; 3) contact information for three references, and 4) statement of research plans to https://www.unrsearch.com/postings/8551 For further information, please contact Professor David W. Zeh (Search Chair) at zehd@unr.edu or Cheri Briggs (Search Coordinator) at cherib@unr.edu.

The University of Nevada, Reno is committed to Equal Employment Opportunity/Affirmative Action in recruitment of its students and employees and does not discriminate on the basis of race, color, religion, sex, age, creed, national origin, veteran status, physical or mental disability, and sexual orientation. The University of Nevada, Reno employs only United States citizens and aliens lawfully authorized to work in the United States. Women and under-represented groups are encouraged to apply.

Thanks,

David

David W. Zeh Professor Department of Biology & Program in Ecology, Evolution & Conservation Biology University of Nevada Reno, NV 89557

Tel: (775) 784-1648 Fax: (775) 784-1302 email: zehd@unr.edu

David W Zeh <zehd@unr.edu>

UNevada Reno EvolutionaryBiol

Postdoctoral Scholar in Evolutionary Biology at the University of Nevada, Reno

We are seeking a postdoctoral scholar to join a National Science Foundation funded investigation of maternal inheritance of mitochondria as a constraint on male adaptation. Using the pseudoscorpion, Cordylochernes scorpioides, as a model system, the research encompasses whole-genome mitochondrial DNA sequencing, sperm competition studies and analyses of traits important in sperm competitive ability.

Minimum requirements are a Ph.D. in evolutionary biology, evolutionary genetics, molecular genetics or related field, and a record of publication in peer-reviewed journals in evolutionary biology. Applicants with expertise in DNA sequencing, DNA profiling and arthropod dissection/microscopy are especially desired.

Interested applicants should apply online at:

https://www.unrsearch.com/postings/8551 and will be prompted to attach a resume/CV, cover letter, contact information for three references and a statement of research plans.

Review of applications will begin Dec 15, 2010 and will continue until a suitable candidate is identified. For further information, please contact Professor David W. Zeh (Search Chair) at zehd@unr.edu or Cheri Briggs (Search Coordinator) at cherib@unr.edu.

The University of Nevada, Reno is committed to Equal Employment Opportunity/Affirmative Action in recruitment of its students and employees and does not discriminate on the basis of race, color, religion, sex, age, creed, national origin, veteran status, physical or mental disability, and sexual orientation. The University of Nevada, Reno employs only United States citizens and aliens lawfully authorized to work in the United States. Women and under-represented groups are encouraged to apply.

zehd@unr.edu

UOxford GeneExpressionEvolution

Applications are invited for a 5-year post-doctoral position in comparative genomics and the evolution of gene regulation at the University of Oxford. The position is a funded by an ERC grant to Judith Mank, and the successful applicant will join a vibrant and growing research group studying the relationship between selection, gene expression, and phenotypic variation.

The project centers on the integration of next-generation sequencing data (both Illumina and 454) with existing whole-genome sequences in order to address questions regarding the evolution of gene expression and alternate splicing, and how these factors account for phenotypic differences both within and among species, as well as between males and females.

The post will be based in the state of the art Mank lab, which is part of the Edward Grey Institute within the Department of Zoology. In addition to the goals of the project, the successful applicant will be encouraged to develop his or her own research interests, and there is wide scope for collaborations with other members of the research group and across other research groups in the department.

Further details, including the formal application and a more detailed description of the post, can be found at http://www.zoo.ox.ac.uk/jobs/index.htm (reference number AT10036, Postdoctoral Research Assistant - Comparative genomics and the evolution of gene regulation).< http://www.zoo.ox.ac.uk/jobs/adverts/-at10036.pdf >Informal inquiries are encouraged, and can be sent to Judith.Mank@zoo.ox.ac.uk.

Judith Mank Department of Zoology University of Oxford http://www.zoo.ox.ac.uk/egi/people/faculty/-judith_mank.htm http://www.zoo.ox.ac.uk/staff/-academics/mank_je.htm judith.mank@zoo.ox.ac.uk

UOxford ResAssist ComparativeGenomics

UNIVERSITY OF OXFORD Mathematics, Physical and Life Sciences Division

DEPARTMENT OF STATISTICS

POSTDOCTORAL RESEARCH ASSISTANT Fixed term appointment of 2 years' duration Academic-related Research Staff Grade 7: Salary £28,983 - £38,951 (top of scale) per annum

The Research Project: "COGANGS" - Comparative Genomics and Next Generation Sequencing - Software Development for Annotation of very large number of genomes

Applications are invited from researchers for a fixed term 2 years' duration post of Postdoctoral Research Assistant funded by the EU. Candidates should have a relevant background and research experience in computer science/ mathematics or a related field. The project involves collaboration between CLC Bio, BIOBASE, deCODE Genetics, Renyi Institute, University of Göttingen, and Novel Computing Systems in Biology and Professor Jotun Hein (Oxford, UK) to work on the development of software.

Successful applicants should have a doctorate in a relevant scientific field, (or be very close to completing). Biologists with a demonstrated ability to work on large software development projects will also be considered. Further particulars for this post are available on request from the address below or from jobs@stats.ox.ac.uk.

Informal enquiries should be addressed to Professor Jotun Hein at mitchell@stats.ox.ac.uk. Further details of Prof. Hein's Genome Analysis & Bioinformatics Group

can be found at : http://www.stats.ox.ac.uk/research/-genome Applicants MUST send a covering letter, a full curriculum vitae, detailing research interests and publication list, contact details of two referees, completed personal details and equal opportunities monitoring form, to Personnel Administration, Department of Statistics, 1 South Parks Road, Oxford OX1 3TG. Tel ++44 (0)1865 272860, Fax: +44 (0)1865 272595

Please quote reference: AM-10-005 in all correspondence.

The closing date for applications is : 12 noon, Wednesday, 22 December 2010.

Christine Stone Administrative and Personal Assistant Department of Statistics, University of Oxford 1 South Parks Road Oxford OX1 3TG Tel: +44 (0)1865 272866/60 Fax: +44 (0)1865 272595

P Please consider the environment - do you really need to print this email?

UppsalaU ComputationalGenetics

Post-doc position available: Development of methods, algorithms and tools for understanding complex trait genetics

We are looking for a Post-doc to join our young and growing group. We provide a supportive environment and strongly believe in an interdisciplinary approach, so we encourage applicants with a non-standard background to apply. We are based in Uppsala, Sweden at the Swedish University of Agricultural Sciences and also have links with Uppsala University.

Our group use a Computational Genetic approach to understand the mechanisms by which heritable genetic variation regulate phenotypic expression in individuals and populations. As input we use empirical data from experimental or natural populations that have been characterized phenotypically and genetically (e.g. genome resequencing and high-density genotyping). The focus of this post will be to develop methods, algorithms, tools and software for using modern genetics data to understand complex trait genetic inheritance. Part of the project will be spent on developing and supporting publicly available tools and software. A strong background in computer science and programming together with an interest in molecular biology and bioinformatics are crucial components in this process.

Aside from work, you will have the chance to get to know Uppsala, which is a pretty university town, notable for its castle and cathedral. It is 40 minutes by train from Stockholm. We get some snow in winter and beautiful long summer days.

Qualifications A successful applicant should have relevant scientific education, have programming experience, be highly motivated for research and have an interest in molecular, quantitative and computational genetics. A strong mathematical/statistical background is advantageous.

Forms for funding or employment Employment as Postdoctoral researcher student for 1 year with possibility of extension 1+2 years.

If you have questions about us or our work, please contact Örjan Carlborg (Orjan.Carlborg@hgen.slu.se) or Ronnie Nelson (Ronnie.Nelson@hgen.slu.se). You can also find more information about our group at http://-www.computationalgenetics.se We are looking forward to hearing from you!

Selected recent publications: Carlborg, Ö. and Haley, C. Epistasis: too often neglected in complex traits studies? Nature Reviews Genetics 2004 5: 618-625.

Carlborg, Ö., Jacobsson, L., Åhgren, P., Siegel, P., Andersson, L. Epistasis and the release of genetic variation during long-term selection. Nature Genetics 2006 38:418-20.

Le Rouzic, A., Siegel, P. and Carlborg, . Phenotypic Evolution from Genetic Polymorphisms in Radial Network Architectures. BMC Biology 2007, 5:50.

Alvarez-Castro, J., le Rouzic, A. and Carlborg, Ö. How to perform meaningful estimates of genetic effects. PLOS Genetics 2008 May 2; 4(5):e1000062 Le Rouzic, A., Alvarez-Castro, J. and Carlborg, Ö. Dissection of the genetic architecture of body weight in chicken reveals the impact of epistasis on domestication traits. Genetics 2008 179:1591-1599.

Rubin CJ, Zody MC, Eriksson J, Meadows JR, Sherwood E, Webster MT, Jiang L, Ingman M, Sharpe T, Ka S, Hallböök F, Besnier F, Carlborg Ö, Bedhom B, Tixier-Boichard M, Jensen P, Siegel P, Lindblad-Toh K, Andersson L. Whole genome resequencing reverals loci under selection during chicken domestication. Nature. 2010 Mar 25;464(7288):587-91. Epub 2010 Mar 10.

Johansson AM, Pettersson ME, Siegel PB, Carlborg Ö (2010) Genome-Wide Effects of Long-Term Divergent Selection. PLoS Genet 6(11): e1001188. doi:10.1371/journal.pgen.1001188

Orjan.Carlborg@hgen.slu.se

URochester EvolutionaryGenetics

A postdoctoral position is available in the laboratory of Daven Presgraves in the Department of Biology at the University of Rochester.

Research in the lab combines functional, molecular, genomics and population genetics approaches to study the genetics of speciation in Drosophila. Current projects in the lab focus on identifying and characterizing hybrid incompatibility genes; population genomics of speciation with gene flow; determining the evolutionary and molecular basis of the special role of sex chromosomes in speciation; functional characterization of the regulation of sex chromosomes in the germline; and determining the evolutionary history and genetics of selfish segregation distorter systems. The ideal candidate will have a background in evolutionary and population genetics and strong molecular and/or computational skills.

The Ecology and Evolutionary Biology group at the University of Rochester provides an exceptional environment for evolutionary genetics and, especially, speciation. For more information about the EEB group visit:

https://blogs.rochester.edu/EEB/ For more information about the lab visit:

http://www.rochester.edu/College/BIO/professors/-presgraves.html Applicants should e-mail a CV, a brief statement of research interests, and contact information for 2-3 academic references to

daven.presgraves[at]rochester.edu.

USheffield HumanEvolution

POSTDOCTORAL RESEARCHER sought by the Department of Animal and Plant Sciences at the UNIVERSITY OF SHEFFIELD to carry out experimental ecological research on the ORIGIN OF AGRICULTURE. For informal enquiries about the job and department, contact Colin Osborne (c.p.osborne@sheffield.ac.uk or +44 114 222 0146). We seek a highly motivated and dynamic individual to carry out experiments examining the role of plant ecological processes in the origin of agriculture. The postholder will work with Dr. Colin Osborne and Professor Mark Rees, as part of an interdisciplinary project that is held jointly with colleagues in the Department of Archaeology (Dr. Mike Charles and Professor Glynis Jones). The project aims to develop a new ecological model for crop domestication, integrating the roles of environmental change, plant traits, and human agency, under the constraints of the archaeological record. The project has parallel experimental and archaeobotanical strands that will together consolidate the evidence necessary to develop and refine this model. The postholder will be responsible for experiments comparing the ecological traits of multiple plant species under a range of glasshouse and controlled environment conditions. These experiments will characterise the suite of traits associated with seed size in the wild progenitors of crop species, and wild grain species that were never domesticated, using experiments that manipulate subambient CO2 levels, soil fertility, shoot defoliation, and germination conditions. The central goal of the project is to test the hypothesis that specialisation on a limited range of large-seeded species, and selection for larger seed size within these species, were both driven by an interaction between human diet choice and ecological processes. The project is funded by NERC and the post has an initial fixed-term of one year, with an immediate start date of 1 January 2011. It is renewable for up to three years in total. Further details about the position and the university, and information about how to apply, can be found at: http://www.sheffield.ac.uk/jobs. The deadline for applications is 8th December 2010.

Colin Osborne Dept. Animal and Plant Sciences University of Sheffield

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

USouthernCalifornia NGS analysis

Applications are invited for up to 3-year post-doctoral position at the University of Southern California, Los Angeles. The position is a joint appointment with the Molecular and Computational Biology Department and the Preventive Medicine Department, in the research groups of Sergey Nuzhdin and Paul Marjoram.

The project centers on the analysis of next-generation

sequence [NGS] data. The Marjoram lab focuses on the design and analysis of association studies that exploit NGS, methodological work on the evolution of copy number variation [CNV], evolutionary models, and the analysis of high-dimensional genomics data. The Nuzhdin lab focuses on building genotype-phenotype maps using explicit molecular-biology inspired models for early embryo development and for InR/TOR pathway in the Drosophila model. Both groups are part of USC's wider Center for Excellence in Genomic Sciences [CEGS].

While the appointee will be free to pursue a variety of areas of research related to NGS data, a particular focus will be on integrating and analyzing large data sets encompassing different stages of the genotype-to-phenotype map, and on generating functional hypotheses relating various -omics data. These will be tested in collaborations with molecular developmental members of CEGS.

Applications should be sent to either (or preferably both) of: pmarjora@usc.edu snuzhdin@usc.edu Please attach a CV, contact details of at least two references, and a letter describing your research interests.

For more information please contact us on either of the above two email addresses. For information on USC please visit http://www.usc.edu/ Funding is available immediately, so applications from individuals ready to start in the near term are encouraged. USC is an equal opportunity affirmative action employer that actively seeks diversity in its workplace

pmarjora@usc.edu

UTartu MolecularMycorrhizalDiversity

RESEARCHER - MOLECULAR MYCORRHIZAL DIVERSITY

We wish to recruit an enthusiastic *researcher* in the field of *molecular mycorrhizal ecology*, to undertake research on patterns of molecular diversity of arbuscular mycorrhizal (AM) fungi on various spatial scales. The position is at the Centre of Scientific Excellence âFrontiers in biodiversity researchâ at the Institute of Ecology and Earth sciences, University of Tartu, Estonia (http://www.botany.ut.ee/). The research involves describing molecular diversity of AM fungi based on environmental samples and cultivated spores by using different marker genes, and explaining diversity patterns of fungi, with an emphasis on co-variation with plant diversity.

The post is funded for 24 months, with a possibility to prolong the contract. You will work with Maarja Ãpik, Mari Moora and Martin Zobel (see http://-www.botany.ut.ee/). The salary level corresponds to that of EU framework projects and is liable to negotiations. The position is available immediately and the starting date is negotiable.

The successful candidate is expected to have a publication record showing candidateâs skill to write scientific papers, and capability to conduct molecular analysis (DNA extraction, PCR, cloning, sequencing). Skills to conduct bioinformatics analysis of sequencing results, and statistical analysis with diversity data will increase the competitiveness of the candidate.

If interested, please provide your CV with the list of publications and statement of your skills in molecular analyses and data treatment via e-mail to Maarja Ãpik (maarja.opik@ut.ee), with Cc: to Martin Zobel (martin.zobel@ut.ee). Please address informal enquiries to Maarja Ãpik.

Please express your interest before December 20, 2010.

– Maarja Ãpik, PhD Research Fellow in plant ecology Department of Botany Institute of Ecology and Earth Sciences University of Tartu 40 Lai Str., 51005 Tartu Estonia tel +37 27 376 224 fax +37 27 376 222

http://www.ut.ee/ http://moritz.botany.ut.ee/-http://www.maarjam.botany.ut.ee/ Maarja Ãpik <maarja.opik@ut.ee>

UZurich BehaviouralEvolution

A three year postdoctoral position in animal behaviour/evolution is available at the University of Zurich working with Prof Marta Manser and her international team.

The research involves behavioural and vocal studies in relation to physiological aspects on meerkats, with fieldwork performed at the Kalahari Meerkat Project in South Africa. Within this framework, several aspects of research can be pursued including: playback experiments documenting knowledge about other group members; hormone analyses investigating the physiological correlates of status, condition, age and vocal signals;

and the flexibility and individuality in the production and perception of vocal signals. The tasks will consist of collecting observational and experimental data in the natural habitat of the meerkat. The postdoc will be responsible for: (1) conducting the field research; (2) analyses of behavioural and acoustic data; and (3) involvement in supervision of our assistants, MSc and PhD students in the field and back in Zurich. We welcome highly motivated applicants with PhDs in Biology/Zoology. Applicants must have a strong background in collecting and analysing behavioural data. People with experience in acoustic research (i.e. acoustic analysis and playback experiments) are preferred. The working language in the group is English, German skills are not essential.

The position is available from January 2011. Target application date is November 15th, 2010, but open until a suitable candidate has been found. Applicants should please send a cover letter with a brief statement of their research interests, a cv (including publication list), and the names and affiliations of three references. Applications (preferably as a single pdf file) and informal inquiries should be sent to: marta.manser@ieu.uzh.ch

information on our group: http://www.ieu.uzh.ch/-research/behaviour/cognition.html; http://-www.kalahari-meerkats.com/ Alan McElligott <amcellig1@yahoo.ie>

WorkshopsCourses

EBI RNA-Seq analysis Mar7-9

Title: Hands-on training at EBI: Advanced RNA-Seq and ChiP-Seq Data Analysis Date: 7-9 March 2011 Venue: EMBL-EBI, Hinxton, Cambridge, CB10 1SD, UK Registration Closes: 24 January 2011 - 12 noon (GMT) Participation offers by: 31 January 2011 http://www.ebi.ac.uk/training/handson/-course_110228_AdvRNA.html Many thanks

Holly Foster Workshops and Exhibitions Organiser European Bioinformatics Institute, Hinxton, Cambridge, CB10 1SD, UK Tel: +44 (0) 1223 492650 Fax: +44 (0) 1223 492621 Email: Holly@ebi.ac.uk <mailto:Holly.Edwards@ebi.ac.uk> http://www.ebi.ac.uk/training/ Upcoming hands on training courses: EBI Open Day: 2 November 2010 Small Molecule Bioactivity Resources at the EBI : < http://www.ebi.ac.uk/training/handson/-course_110214_smallbioactives.html > 14-18 February 2011 Advanced RNA-Seq and ChiP-Seq Data Analysis: 7-9 March 2011 Programmatic access to biological databases (Java) : < http://www.ebi.ac.uk/training/-handson/course_110509_progjava.html > 9-13 May 2011

Please subscribe at www.embl.de/events/newsletter for our newsletter Follow us on www.twitter.com/-embl_events

Holly Foster <holly@ebi.ac.uk>

Groningen MicrobialEvolution Dec12-17

Graduate Course New Frontiers in Microbial Ecology,

12-17 December, Groningen (Netherlands)

Under the auspices of the Research Schools Ecology & Evolution (RSEE), Production Ecology & Resource Conservation (PE&RC) and Socio-economic and Natural Sciences of the Environment (SENSE), the department of Microbial Biology of the Centre for Ecological & Evolutionary Studies, University of Groningen organizes a 6-day course on New Frontiers in Microbial Ecology.

Aim:

To provide students with key insights in current development in the area of microbial ecology.

Contents and structure Microbes are everywhere on the globe. They were the first to develop and will be the ultimate survivors at the final collapse of the solar system. Microbes are also key drivers of a range of ecosystems, from whole complex ecosystems to systems as small as the human intestine or the skin of an insect. The area of microbial ecology is in great turmoil, as we are explosively enhancing our understanding of the genomics of single organisms as well as of whole ecosystems. This exciting development has opened up a pandora box of new and challenging questions as to the ecological drivers of function and evolution in the microbial world.

This course will deal with a range of topics in the area "The implication of advanced genomics in Microbial ecology". Key people in the area will serve as lecturer's to illustrate recent highlights in their area. Moreover, they will challenge the students with questions about developments in their area, which will be dealt with in (interactive) discussion sessions.

Key Topics (impact of genomics in):

- Metagenomics - Bacterial communication - Interactions with hosts - Microbial diversity - function - Microbial evolution and horizontal gene transfer - Applied microbiology

Speakers and Topics include:

Soil actinobacteria and genomics (Liz Wellington, UK)

Rhizosphere and genomics (Hans van Veen, NL)

Microbial communication in soil and rhizosphere (Ines Mandic-Mulec, Slovenia)

Soil microbial systems - functional assessments (George Kowalchuk, NL)

Marine microbial systems (Lucas Stal, NL)

Microbial diversity and function (Joana Salles, NL)

Metagenomics: analysis and application (Pascal Simonet, France)

Bioinformatics (Rory Michellaind, France)

Microbial evolution (Arjan de Visser, NL)

Horizontal Gene Transfer (Dick van Elsas, NL)

The role of microbial DNA - persistence and transformation (Pascal Simonet, France)

Applied microbial ecology: The human microbiome (Julian Marchesi, UK)

Applied Microbiology: Wastewater treatment (Gijs Kuenen, NL)

Applied Microbiology: Phytopathology (Riitta Nissinen, NL)

The course is aimed at PhD level students but other applications will be considered. More information can be found at: http://www.rug.nl/biologie/-onderzoek/onderzoekScholen/RSEE/phdCourses/-microbialEcologyworkshop2010 Contact:

Corine M. Eising, PhD Centre for Ecological and Evolutionary Studies University of Groningen P.O. Box 14 9750 AA Haren The Netherlands tel: ++.31-50-363-9140 fax: ++.31-50-363-2295 Email: c.m.eising@rug.nl

Corine Eising <C.M.Eising@rug.nl>

Lyon ComparativeGenomics Jan17-28 2

Dear all,

Our European Course on Comparative Genomics will be held at ENS Lyon from January 17 to 28, 2011.

The course is in English and is open to Master/PhD students from all European Universities.

The program is available here: http://lbbe-dmz.univ-lyon1.fr/spip_cg/ Registration is free but required and will close on November 26. Results will be released a couple of days later.

We can provide a couple of very cheap rooms at the ENS residence and there are low-cost flights to Lyon.

Best regards,

Gabriel Marais & Jean-Nicolas Volff

Dr Gabriel Marais

Bioinformatics and Evolutionary Genomics Biometry and Evolutionary Biology Dpt. (UMR 5558) University of Lyon 1 Mendel's building, 16 Raphael Dubois

st. 69622 Villeurbanne cedex France

Tel: (+33) (0) 4 72 43 29 09 Fax: (+33) (0) 4 72 43 13 88

Email: Gabriel.Marais@univ-lyon1.fr Web site: http://-/lbbe.univ-lyon1.fr/-Marais-Gabriel-.html MARAIS GABRIEL <Gabriel.Marais@univ-lyon1.fr>

Smithsonian Panama InvertSystematics Summer

The Smithsonian Tropical Research Institute's Bocas del Toro Research Station announces two summer classes in systematics and identification of marine invertebrates.

Pan American Advanced Studies Institute: Advanced Tunicate Biology: Integrating Modern and Traditional Techniques for the Study of Ascidians. June 9 ' 30, 2011

Taxonomy and Biology of Decapod Crustaceans. August 1-14, 2011.

Fellowships are available.

For more information check http://striweb.si.edu/-taxonomy_training/index.html "Collin, Rachel" <CollinR@si.edu>

UBath Evolution Microbial Cooperation Jan20-21

EPSRC workshop: Evolution of Microbial Cooperation, 20-21 January 2011, University of Bath, UK

This EPSRC funded workshop will bring together experimentalists and modelers interested in microbial cooperation from molecular and genetic detail through to population level interactions.

For more details including the list of speakers and how to register please go to: http://www.mmems.org/ For all scientific enquiries contact Ivana Gudelj (i.gudelj at imperial.ac.uk). For administrative enquiries e-mail Sarah Hardy (srh29 at bath.ac.uk).

Ivana Gudelj <i.gudelj@imperial.ac.uk>

UCDavis AppliedPhylogenetics Mar5-12

UC Davis

WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California

March 5-12, 2011

Sponsored by the

University of California, Davis and Bodega Marine Laboratory

(additional financial support provided by the University of Rochester)

http://bodegaphylo.wikispot.org/2011_Workshop Introduction. Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, playing an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecological communities. The estimation of phylogenetic trees is now a formalized statistical problem with general agreement on the central issues and questions. A nearly standard set of topics is now taught as part of the curriculum at many colleges and universities. On the other hand, application of phylogenetic methods to novel problems outside systematics is an area of special excitement, innovation, and controversy, and perspectives vary widely.

In March 2011, for the twelfth consecutive year, we will teach a workshop for graduate students interested in applying phylogenetic methods to diverse topics in biology. The one-week course is an intensive exploration of problems to which modern phylogenetic approaches are being applied and the most current statistical tools and approaches that are used to solve those problems. We cover a range of topics in ecology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. The course starts with recent advances in phylogenetic methodology, and then focuses on methods and tools that can be brought to bear on these "applied" issues in the context of a given phylogeny.

The course will be held at the Bodega Marine Lab on the Northern California coast, which has extensive computing resources and on-site housing. Our newly increased bandwidth and access to computing clusters

allows us to utilize computer-intensive approaches even in a one-week course. The course format will involve equal parts of lecture, discussion, and hands-on software training. One afternoon during the week will be left free for field trips to local natural areas.

Specific Topics to be Covered

* Estimating, evaluating and interpreting phylogenetic trees

* Recent advances in Bayesian and Maximum-likelihood estimation of phylogeny

* Estimation of species trees, gene-tree/species-tree conflicts

* Divergence-time estimation from sequence data: relaxed clocks, fossil calibration

* Analysis of character evolution: maximum likelihood and Bayesian approaches, ancestral-state estimation, character correlation, rates of trait evolution

* Analysis of morphological form, function of complex character systems

* Inference of diversification rates: detecting rate shifts, testing key innovation hypotheses

* Model specification issues: model selection, adequacy and uncertainty

* Diagnosing MCMC performance

Instructors for the 2011 workshop

* Carl Boettiger * Samantha Price

* Jeremy Brown * Bruce Rannala

* Jonathan Eisen * Michael Sanderson

* Rich Glor * Brad Shaffer

* Tracy Heath * Phil Spinks

* John Huelsenbeck * Bob Thomson

* Brian Moore * Peter Wainwright

* Thomas Near * Justen Whittall

* Greg Pauly

plus guest lecturers!!

Prerequisites. Students should have some familiarity with phylogenetic methods through previous coursework or research experience.

Admission and Fees. Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is $600. This includes room and board at BML for duration of the course (arriving March 5, leaving March 12) and transportation from Davis to BML.

Application Deadline. Applications are due by December 15, 2010. Please send a completed application form (available at http://bodegaphylo.wikispot.org/-2011_Workshop) and one letter of recommendation from your major advisor. Applications should be sent via email as PDFs to pqspinks@ucdavis.edu. Sorry, but due to the limited size of the class, postdocs and faculty are discouraged from applying. Students will be notified via e-mail by 1 January 2011 of acceptance.

Send all application materials to

Dr. Phillip Q. Spinks Department of Evolution and Ecology 2320 Storer Hall University of California Davis Davis, CA 95616

email:pqspinks@ucdavis.edu

pqspinks@ucdavis.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.