
E v o l D i r

November 1, 2008

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

Forward

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

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

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



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Conferences

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Berlin Celebrating Darwin Mar3-6

Dear evolutionary biologists, Darwin's 1859 book "On the Origin of Species" contained only a single figure depicting a tree diagram of species origins and relationships. This little scheme was nevertheless the starting point for the ubiquity of phylogenetic trees in today's zoology. Every week numerous cladograms representing animal relationships at all levels are published. An increasing number of these articles deal with the phylogeny of the major groups of multicellular animals (Metazoa). However, these publications show that neither sequence data nor available morphological character sets produce phylogenies that converge to a widely accepted consensus. It is obvious that some traditional views cannot be maintained and that a new framework of animal phylogeny is emerging. Nevertheless, the large number of contradicting trees indicates that some fundamental problems of phylogenetic studies have not been discovered or resolved.

The international conference "Celebrating Darwin: From /The Origin of Species/ to Deep Metazoan Phylogeny" brings together mathematicians, theorists, molecular systematists, and morphologists interested in a critical review of known pitfalls and in the presentation of new analytical tools, new types of characters, and a synopsis of molecular and morphological characters. It is intended to get a critical and constructive view of the state of the art.

On behalf of the organising committee we would like to invite you to this conference, which will take place from *3th - 6th March 2009 *at the Humboldt-University and the Museum of Natural History in Berlin, Germany. The meeting will consist of sessions with several invited speakers and open sessions with short presentations. In addition, there will be the possibility to show posters. The meeting focuses on three major themes:

- *1) Innovations in analyses of molecular and morphological data*
- *2) Molecular phylogeny: new markers and phylogenomic analyses*
- *3) The indispensability of morphology *

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

www.dmp2009.org Please block this period or time in your appointment calendar.

– Zoologisches Forschungsmuseum Koenig Leibniz-Institut für die Biodiversität der Tiere

Susanne Düngelhoef Sektion Coleoptera Adenauerallee
160 53113 Bonn

(0049) (0)228 9122342 s.duengelhoef.zfmk@uni-bonn.de

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 <s.duengelhof.zfmk@uni-bonn.de>

Susanne

Duengelhof

Ecology - Ecology in Genes

Friday, 11/14/08 to Saturday, 11/16/08

Kansas City on the Plaza

Early registration, poster abstract, and hotel deadlines are Tuesday, October 14, 2008.

This is a friendly reminder that the deadline for discounted registration fees of Tuesday, October 14, is approaching fast. After October 14, we will continue to welcome your registration to attend the 6th Annual Genes in Ecology, Ecology in Genes Symposium at a slightly higher cost.

Also, please note that if you would like to have your poster abstract considered for an oral presentation, the deadline for submission is Tuesday, October 14. Abstract submission guidelines for submitting your poster abstract online are available at: <http://ecogen.ksu.edu/symp2008>.

The deadline for hotel reservations at the InterContinental Hotel on the Plaza in Kansas City is also Tuesday, October 14, 2008. The low rate of \$129/night is only available until the room block is depleted or October 14 - whichever comes first - so make your reservations TODAY!

The Symposium will begin on Friday evening, November 14, and conclude on Sunday, November 16, at noon. The Symposium site is the InterContinental Hotel in Kansas City on the beautiful Country Club Plaza. For complete registration, hotel and poster abstract information, please visit our Symposium website, <http://ecogen.ksu.edu/symp2008>.

FEATURED SPEAKERS:

-Kathleen Donohue, Duke University, Seeds and seasons: Germination and life-history variation in *Arabidopsis thaliana*

-Michael B. Eisen, University of California-Berkeley, Genomes and Genomics of *Drosophila*

-William Jeffery, University of Maryland at College Park, Dark Caves and pleiotropy: Evolution of blindness in the Mexican cavefish, *Astyanax*

-Carol Eunmi Lee, University of Wisconsin-Madison, Exploring genomics targets of selection during habitat invasions

-Bryant F. McAllister, University of Iowa, Genome structure and local adaptation

-Leonie C. Moyle, Indiana University, Salad Speciation: Genetics of adaptation and reproductive isolation in *Solanum*

-Patrick Phillips, Center for Ecology and Evolution-

Christchurch NewZealand BIOED2009 Feb12-15

BIOED 2009

The New Zealand Allan Wilson Centre is pleased to host BioED2009 - one of six international "Darwin 200 Symposia" being coordinated to celebrate the 200th birth date of Charles Darwin <http://www.iubs.org/newiubs/products/Darwin%20200%20Symposia.pdf>

These meetings are being run under the auspices of the International Union of Biological Sciences (IUBS) and the United Nations Educational Scientific and Cultural Organization (UNESCO). The aim of "Darwin 200 Symposia" is to celebrate the impact of Darwin's ideas on current scientific knowledge, with scientific symposia and satellite meetings taking place on five continents.

BioED2009 http://awcmee.massey.ac.nz/IUBS_BioEd_2009/index.htm brings together an international community interested in science, secondary and tertiary education. The meeting aims to promote understanding of biodiversity and the importance of evolutionary biology through an international exchange of ideas and knowledge about current research and education. It will embrace multiple cultural perspectives, technological advances, curricular practices and materials, informal education, and curiosity of the natural world. The development and sharing of class room ready resources is an important component of BioED2009. Please visit the website to see an extensive list of confirmed Plenary and Session speakers.

Venue: Christchurch Convention Centre, Christchurch New Zealand 12th-15th Feb 2009

Contact: Susan Adams s.i.adams@massey.ac.nz

brhollan@googlemail.com

KansasCity Genomics Nov14-16

ECOLOGICAL GENOMICS SYMPOSIUM, Genes in

ary Biology, University of Oregon, Perception and environmental context: The ecological genomics of the response to temperature, chemicals, and food within the nematode *C. elegans* and its relatives

-Ralf J. Sommer, Max Planck Institute for Developmental Biology, Tuebingen, Germany, Tritrophic interactions of *Pristionchus* nematodes with beetles and bacteria

-Stephen M. Welch, Kansas State University, Floral gene pathway sensitivity estimation by photothermal modeling

-Mark Young, Montana State University-Bozeman, Viral population dynamics in Yellowstone's hot springs

DEADLINES:

10/14/08 Poster Abstracts are due 10/14/08 Early Registration (Fees increase on 10/15/08) 10/14/08 Hotel Reservations at the InterContinental Kansas City

Symposium Organizing Committee:

Michael Herman, Co-Chair, Division of Biology Loretta Johnson, Co-Chair, Division of Biology Ted Morgan, Division of Biology Tim Todd, Department of Plant Pathology Kun Yan Zhu, Department of Entomology Lindsey Fallis, Graduate Representative, Biology

QUESTIONS:

If you have questions, please contact us at (785) 532-3482 or dmerrill@ksu.edu.

Additional information about this interdisciplinary research initiative is available at www.ecogen.ksu.edu <<http://www.ecogen.ksu.edu/>> .

Funding for this symposium is provided by Kansas State University.

Ecological Genomics Institute

Project Directors:

Dr. Loretta Johnson and Dr. Michael Herman Kansas State University 104 Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, www.ksu.edu/ecogen by

Doris Merrill, Program Coordinator Ecological Genomics Institute Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, dmerrill@ksu.edu

www.ecogen.ksu.edu

KansasCity Genomics Nov14-16 FinalUpdate

GENOMICS SYMPOSIUM, Kansas City, 11/14-16/2008

Symposium website: www.ecogen.ksu.edu/symp2008

Hotel and Poster Submission Deadlines Extended; Registration continues to be open; Schedule is now available.

It's not too late. You can still register to attend and submit a poster abstract for presentation at the:

6th ANNUAL GENOMICS SYMPOSIUM

November 14 to 16, 2008

Kansas City, InterContinental Hotel on the Plaza

The Symposium will begin on Friday evening, November 14, and conclude on Sunday, November 16, at noon. The Symposium site is the InterContinental Hotel in Kansas City on the beautiful Country Club Plaza.

DEADLINES:

10/28/08 Hotel Reservations at the InterContinental Kansas City on the Plaza

11/4/08 Extended deadline for Poster Abstracts

11/15/08 Registration

Online registration and hotel reservation links, the schedule, and additional information are available at: www.ecogen.ksu.edu/symp2008 .

FEATURED SPEAKERS:

**Kathleen Donohue, Duke University, Seeds and seasons: Germination and life-history variation in *Arabidopsis thaliana*

**Michael B. Eisen, University of California-Berkeley, Genomes and Genomics of *Drosophila*

**William Jeffery, University of Maryland at College Park, Dark Caves and pleiotropy: Evolution of blindness in the Mexican cavefish, *Astyanax*

**Carol Eunmi Lee, University of Wisconsin-Madison, Exploring genomics targets of selection during habitat invasions

**Bryant F. McAllister, University of Iowa, Genome structure and local adaptation

**Leonie C. Moyle, Indiana University, Salad Speciation: Genetics of adaptation and reproductive isolation in Solanum

**Patrick Phillips, Center for Ecology and Evolutionary Biology, University of Oregon, Perception and environmental context: The ecological genomics of the response to temperature, chemicals, and food within the nematode *C. elegans* and its relatives

**Ralf J. Sommer, Max Planck Institute for Developmental Biology, Tuebingen, Germany, Tritrophic interactions of *Pristionchus* nematodes with beetles and bacteria

**Stephen M. Welch, Kansas State University, Floral gene pathway sensitivity estimation by photothermal modeling

**Mark Young, Montana State University-Bozeman, Viral population dynamics in Yellowstone's hot springs

QUESTIONS:

If you have questions, please contact us at (785) 532-3482 or dmerrill@ksu.edu.

We look forward to seeing you in Kansas City in November!

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Loretta Johnson, Co-Chair, Division of Biology

Ted Morgan, Division of Biology

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Kansas State University

104 Ackert Hall, Manhattan, KS 66506-4901

(785) 532-3482, www.ksu.edu/ecogen

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The e-Biosphere 09 Conference will be held in London on 1-3 June 2009. The conference has three principal goals:

* To highlight the achievements and capabilities of Biodiversity Informatics; * To provide practitioners and users of Biodiversity Informatics with opportunities to interact and share information; and * To gather input from practitioners and users that will help guide the development of Biodiversity Informatics over the coming 5-10 years. Representatives of major Biodiversity Informatics initiatives will meet for two days following the Conference to use this input to develop an R&D roadmap.

The Conference will stress panel discussions, break-out discussion groups, and other meeting formats that will promote active involvement by participants. The Conference agenda will include time for break-out discussion meetings of communities of practitioners and users of Biodiversity Informatics. The Conference organizers will soon launch web-based discussion groups and town-hall meetings through which these communities can develop Position Papers that will be finalised at the Conference.

The e-Biosphere 09 Conference will be an excellent opportunity for developers of biodiversity databases and software to give demonstrations to the community. Instructions for exhibitors is available at <http://www.e-biosphere09.org/assets/files/-Exhibitors07Jul08.pdf>. The Conference website (www.e-biosphere09.org) now has:

* The Programme of speakers * Call for Abstracts for poster presentation * Applications for Travel Bursaries for participants from developing countries and doctoral students, and * Pre-registration online form * Hotel information

Comments and questions about the Conference can be sent to inquiries.e-biosphere09@si.edu.

David E. Schindel, Executive Secretary

Consortium for the Barcode of Life

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Email: SchindelD@si.edu
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Room CE-119

London e-Biosphere Jun1-5 2

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 P.O. Box 37012, MRC-105
 Washington, DC 20013-7012
 "Schindel, David" <schindeld@si.edu>

London EvoDevo Nov7

Evolution and Development - Experimental and Theory
 Friday, Nov 7th 2008, 10.00-17.30

Annual meeting at CoMPLEX, University College London

We have an excellent line up of International Speakers including:

James Briscoe, NIMR, London Julian Lewis, CRUK, London John Odling-Smee, Anthropology, Oxford Paola Oliveri, Cell and Developmental Biology, UCL Pat Simpson, Zoology, Cambridge Eörs Szathmáry, Plant Taxonomy and Ecology, Budapest Miltos Tsantias, Plant Sciences, Oxford Andreas Wagner, Biochemistry, Zürich

All Welcome. Register online: <http://www.ucl.ac.uk/-complex-annualmeeting/> Fee for non-UCL members: £50 or £30 students (lunch, refreshments and drinks included)

For further information: complex@ucl.ac.uk (please enter subject line Annual meeting)

ucbhpom@ucl.ac.uk ucbhpom@ucl.ac.uk

Marseilles 13thEvolutionaryBiol Sep22-25

Dear All,

We are pleased to inform you that the 13th Evolutionary Biology Meeting at Marseilles will take place on 22nd, 23rd, 24th, 25th September 2009.

Yours sincerely,
 Axelle Pontarotti
 Egee@univ-provence.fr

Marseilles EvolutionaryBiol Sep22-25

Dear All,

We are pleased to inform you that the 13th Evolutionary Biology Meeting at Marseilles will take place on 22-25 September 2009 and that you can already register at <http://sites.univ-provence.fr/evol-cgr> For more information, do not hesitate to go on: <http://sites.univ-provence.fr/evol-cgr> Best wishes,

Axelle Pontarotti

Universite EGEE <Egee@univ-provence.fr>

NaturalisMuseum Leiden IslandEvolution Feb12-13

Announcement International Congress ISLAND EVOLUTION 150 YEARS AFTER DARWIN

150 Years after Darwin's On the Origin of Species, island evolution is entering a new phase. By habitat fragmentation, we humans create more and more islands, while at the same time, by transporting species from their native biomes, we remove the dispersal barriers that kept habitats isolated.

To explore the implications of this new era of island evolution, the National Museum of Natural History in Leiden, the Netherlands, together with the Darwin Center for Biogeology in Utrecht, the Netherlands, will organise an international congress on

"Island Evolution 150 Years After Darwin" 12 & 13 February 2009 Museum Naturalis Leiden, the Netherlands

The meeting will bring together traditional students of island biotas, experimental/theoretical community ecologists, and evolutionary biologists, to explore the role of island-biological processes in a world in which

the “island processes” of isolation and dispersal are being drastically altered.

Registration fee: Early (before 15 January 2009): ? 150 (regular participants); ? 100 (students) Late (15 January 2009 and later): ? 175 (regular participants); ? 125 (students) The registration fee covers book of abstracts, ice-breaker, free entry to the museum, lunches, buffet dinner, Darwin Year opening reception, and refreshments.

Registration closes on January 28th, 2009. Abstracts for posters (A1 format, 59.4 x 84.0 cm) should be submitted to Jeremy Miller (miller@naturalis.nl) before December 15th, 2008.

For more information and registration: <http://www.naturalis.nl/darwin2009> Scientific Programme:

Wednesday February 11, 2009

16.00-18.00 Early registration and ice-breaker.

Thursday February 12, 2009

Keynote Address: Mark Lomolino, New York Univ. On the Origin, Evolution and Preservation of Island Life: an Historical and Prospective Overview

Session I. Evolution in Island Systems (organisers: Jeremy Miller & Lars Chatrou) on: What are evolutionary islands, why are they good model systems for evolutionary studies, and what was Darwin’s role in developing island evolutionary biology?

Keynote lecture: Robert Whittaker, Univ. Oxford. Dynamic oceanic island biogeography: development and initial evaluation of a general model

Lecture 1: Peter Linder, Univ. of Zurich on the evolution and diversity of South Africa’s Cape flora [exact title to be announced]

Lecture 2: Menno Schilthuizen, Naturalis. Evolution on a block of rock; land snail speciation on limestone outcrops

Lecture 3: Nicole de Voogd & Leontine Becking, Naturalis, and Katja Peijnenburg, Univ. of Amsterdam. Anchialine lakes: hidden islands within islands

Session II. Evolutionary ecology of isolated ecosystems (organisers: Menno Schilthuizen & Frank Berendse) on: How do isolated ecosystems function and how do they evolve in the face of extinction and invasion?

Keynote lecture: Peter J. Morin, Rutgers Univ. The ecology and evolution of island communities in a changing world

Lecture 1: Jos? Montoya, Univ. London. Unravelling Darwin’s entangled bank: The architecture of ecological fragility

Lecture 2: Han Olff, Groningen Univ. Dynamics of metacommunities and metaecosystems

Lecture 3: Kostas Triantis, Univ. Oxford. Evolutionary species-area curves

Reception and Opening of the Dutch Darwin year programme of events (All conference participants are invited)

Buffet dinner in the restaurant

Friday February 13, 2009

Session III. Evolutionary islands through time (organisers: Frank Wesselingh & Henry Hooghiemstra) on: To show that island ecosystems are of all times and that the nature, context and extent of evolutionary processes on islands can be gleaned from the fossil record

Keynote lecture: Matthias Harzhauser, Natural History Museum Vienna. Evolutionary lessons from ancient long-lived lakes

Lecture 1: Henry Hooghiemstra, Univ. Amsterdam. Evolution of high tropical Andean endemic floras

Lecture 2: John de Vos et al. Naturalis. The island ecosystem of the Hobbit

Lecture 3: speaker to be announced: Neogene micro-mammal evolution and turnover between isolation and continuity.

Session IV. Human perspectives of evolutionary islands (organisers: Martien van Oijen & Kenneth Rijdsdijk) on: Is there a future for evolutionary islands? How do island ecosystems respond to the pressures from human society and how does human society respond to the demise of island ecosystems?

Keynote lecture: Tijs Goldschmidt, Leiden. Temporary and perpetual effects of unplanned and calculated introductions

Lecture 1: Kenneth Rijdsdijk, Naturalis, Leiden. The message of the Dodo

Lecture 2: Frans Witte, Leiden Univ. Lake Victoria, the destruction and evolution of an ecosystem

Lecture 3: Gon?alo Ferraz, Biological Dynamics of Forest Fragments Project, Manaus INPA/STRI. Island fragments in the Amazon: a metaphor gone wild

Moderated panel discussion on “The future of evolutionary islands:

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

Netherlands PhDStudents Aug14-19

15th ANNUAL EUROPEAN MEETING OF PhD STUDENTS IN EVOLUTIONARY BIOLOGY (EMPSEB XV)

Friday 14 - Wednesday 19 August 2009, the Netherlands

The EMPSEB is an annual meeting aimed to bring PhD students from all across Europe together in an informal atmosphere. You get the opportunity to present your work and discuss new ideas with your peers in a relaxed and social environment. 6-8 senior scientists working on various topics are also invited to give plenary talks and to provide experienced guidance to start your scientific career.

Registration will be limited to 80 PhD students. We aim to provide travel grants for students that can not get funding from their own university.

More information will be made available on the following website during the coming months: <http://www.empseb2009.nl> If you want to be informed regularly, send us an e-mail, so we can add you to our mailing list: info@empseb2009.nl

Hope to see you in August!

EMPSEB 2009 Organizing Committee Aniek Ivens, University of Groningen Ana Duarte, University of Groningen Bram Kuijper, University of Groningen Elske Schut, University of Groningen Rudy Jonker, Wageningen University Ralf Kurvers, Wageningen University Saleta Perez Vila, University of Groningen Michael Briga, University of Groningen

EMPSEB 2009 <info@empseb2009.nl>

NHM London YoungSystematists Dec2

10th YOUNG SYSTEMATISTS FORUM

Tuesday, 2nd December 2008, 9 am

Venue: Flett Lecture Theatre,

Natural History Museum,

London, UK

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

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

Registration is FREE via RSVP: please let us know if you wish to attend as space is limited. Send applications by e-mail to Peter Olson (P.Olson@nhm.ac.uk), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, molecular and other research. Those wishing to present their work should send an abstract as soon as possible in order to increase the likelihood of obtaining a space in the programme.

Abstracts must be submitted by e-mail in English no later than 21st November 2008. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

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

Dr Peter D Olson Department of Zoology 709 Darwin Centre The Natural History Museum Cromwell Road, London SW7 5BD United Kingdom

+44 (0)207 942 5568 (Office) +44 (0)207 942 5151 (Fax) +44 (0)207 942 5427 (Molecular Biology Unit) <http://www.nhm.ac.uk/research-curation/staff-directory/zoology/cv-6456.html>

Interested in utilizing museum resources for systematic research? See funding opportunities via SYNTHESYS <http://www.synthesys.info/> NEW Open Access Journal!

BMC Parasites & Vectors <http://www.parasitesandvectors.com> "Dr. PD Olson" <p.olson@nhm.ac.uk>

Stellenbosch InvasiveSpecies Aug

The 10th International Conference on the Evolution and Management of Alien Plant Invasions under the theme “Effective intervention through enhanced collaboration” will be held in Stellenbosch, Western Cape, South Africa in August 2009. EMAPi10 will be of interest to a broad audience, from ecologists, evolutionary biologists, restoration ecologists and managers.

Specific focuss areas will include molecular evolution of plant invasions, Invader-induced trophic cascades, Novel ecosystems, Human dimensions of plant invasions, Mapping & modelling of plant invasions, Methods for risk analysis in biosecurity, Managing invasive plants ~ learning from successes and failures, Plant invasions in protected areas, Plant invasions in arid areas special problems, special solutions, Nurseries never-ending source of invasive species?, Biofuels ~ a major source of problems with invasive plants in the future?, Communication, education & social marketing ~ beyond pretty posters to behaviour change.

South Africa, and specifically the Western Cape region, is home to one of the world’s most diverse floras. Unfortunately the country also has a long history of problems with alien plant invasions. However, South Africa boasts some of the world’s most innovative and successful management programmes to protect its biodiversity for future generations.

Stellenbosch lies in the heart of South Africa’s winelands with spectacular natural surroundings. It is a short drive from Cape Town international airport and the mother city. Stellenbosch offers a vibrant scene characterized by fantastic restaurants, night life, history and spectacular scenery.

For further information go to: <http://www.emapi2009.co.za/>, or contact Prof Dave Richardson: rich@sun.ac.za or Retha Venter: reventer@netactive.co.za

Jaco Le Roux, Ph.D DST-NRF Centre of Excellence for Invasion Biology Faculty of Science * Stellenbosch University Private Bag X1 * Matieland 7602 * South Africa Tel: +27 (0)21 808 2086 * Fax: +27 (0)21 808 2995 <http://www.sun.ac.za/cib> jleroux@sun.ac.za jleroux@sun.ac.za

UCIrvine MEEGID IX Oct30-Nov1 registration 2

PLEASE CIRCULATE

Still time to register!

Deadline for submissions has been postponed until 15th October. Some slots are still available, both for oral communications and posters. Last minute registrations are accepted.

The 9th International Meeting “Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases” (MEEGID IX), to be held at UC Irvine, California, is still open to registration and communications (oral and posters).

MEEGID IX is co-organized by the University of California at Irvine (<http://www.uci.edu/>) and the Institut de Recherche pour le Développement (IRD; <http://www.ird.fr/>) in France. Principal organizers are Francisco J. Ayala (Dept Ecology and Evolution, UC Irvine) and Michel Tibayrenc (IRD).

Communications on genetics, genomics, proteomics, phylogenetics, population biology, mathematical modeling, and bioinformatics are welcome. They can report on the host, the pathogen, or the vector for vector-borne diseases. Papers considering host + pathogen or pathogen + vector (co-evolution) are particularly encouraged. All pathogens are within the scope of MEEGID: viruses, parasitic protozoa, helminths, fungal organisms, and prions. All infectious models can be explored, including those of veterinary or agronomical relevance.

Confirmed Speakers:

Francisco J. Ayala (Dept Ecology and Evolution, UC Irvine): (i) Evolution of malaria; (ii) Darwin’s Revolution

Robin Bush (Dept Ecology and Evolution, UC Irvine, California): Influenza Evolution

Appolinaire Djikeng (J. Craig Venter Institute, Rockville, Maryland, USA) Viral genomics

Sunetra Gupta (University of Oxford, UK) The role of immune selection on pathogen population structure

Henry Harpending (University of Salt Lake City): Infectious Diseases and Human Evolution

Austin Hugues (University of South Carolina, Columbia) The Importance of Purifying Selection in Pathogen Evolution

Tovi Lehmann (NIAID, NIH). Vector population genetics and genomics

James Musser (Cornell University, New York) Molecular Genetic Basis of Group A Streptococcus Epidemics

Martine Peeters (IRD Montpellier, France). HIV molecular evolution

Anne Rimoin (UC Los Angeles) : implementing active surveillance of human monkeypox in the democratic republic of Congo

Michel Tibayrenc (IRD, Montpellier, France): Integrated evolutionary epidemiology: where are we now?

Nathan Wolfe (UC Los Angeles): Viral forecasting

The MEEGID meetings are organized in synergy with the new journal *Infection, Genetics and Evolution* (Elsevier; <http://www.elsevier.com/locate/meegid>), covering the same scientific topic. Launched only 6 years ago, *Infection, Genetics and Evolution* is now published with six issues per year, and has been indexed by Medline and Index Medicus, starting from the first issue. It is now covered by ISI and the official impact factor for 2007 is 2.407 (ISI Web of knowledge).

The papers communicated for MEEGID IX will be published in a special issue of *Infection, Genetics and Evolution*, as already done for MEEGID VI (Paris, July 2002) and MEEGID VIII (Bangkok, Thailand, November 2006). MEEGID IX will include 10-15 plenary lectures, about 20 specialized symposia, 12-15 "express-debates" (a 20-min presentation by a single speaker followed by 40 min of free discussion) and several poster sessions.

Special emphasis through plenary lectures and symposia will be given to health problems of particular interest to mediterranean and tropical countries: AIDS, malaria, tuberculosis (especially multidrug resistant TB), sleeping sickness, leishmanioses, Chagas disease, ebola, bird flu, Chikungunya, as well as cattle and crop pathogens. Plenary lectures and symposia will also deal with transversal topics such as population genetics or species concepts. The congress is still open to proposals for conferences and symposia.

Awards will be attributed to the best oral communication, the best oral communication by a scientist from the Southern World on a problem specifically relevant to these areas, the best oral communication by a student, and the best communication by poster. Each prize winner will be offered a free 2-year membership to *Infection, Genetics and Evolution*.

The abstract submission deadline is the 30th September 2008. Later submissions are accepted, but could possibly be not included in the congress book.

Registration Fee: 200.00 euros or equivalent in other currencies. Reduced fees upon request for scientists from developing countries who do not have international funds. Registration fees are waived for students.

Registration and abstract submission on: http://www.th.ird.fr/site_meegid/meegid_registration.html

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

UStAndrews HumanBehaviourEvolution Apr6-8

The fourth EHBE meeting, and first of the newly formed European Human Behaviour and Evolution Association, will be held at the University of St Andrews from Monday 6th to Wednesday 8th April 2009. The conference will bring together researchers across multiple disciplines who are studying human behaviour from an evolutionary perspective.

EHBEA aims to provide a genuinely interdisciplinary European research forum representing the main branches of human behavioural ecology, evolutionary psychology, cultural evolution and related subdisciplines. The conference doubles as a flagship meeting for CULTAPTATION, an EU-funded interdisciplinary project investigating dynamics and adaptation in human cumulative culture.

Plenary Speakers: Monique Borgerhoff Mulder (UC Davis) Rob Boyd (UCLA) Val Curtis (LSTHM) Marcus Feldman (Stanford) Joan Silk (UCLA)

Further Information: <http://biology.st-andrews.ac.uk/ehbe2009> EHBEA Steering Committee: Kevin Laland (St Andrews), Rebecca Sear (LSE), Tom Dickens (UEL), David Lawson (UCL)

The conference is organised by Kevin Laland, Gillian Brown, Luke Rendell and Lewis Dean

– Dr. Luke Rendell Post-Doctoral Research Fellow Tel: (44)(0)1334 463499 E-mail: ler4@st-andrews.ac.uk WWW: <http://bio.st-andrews.ac.uk/>

staff/ler4.htm School of Biology, University of St. Andrews Bute Medical Building, Queen's Terrace St. Andrews, Fife KY16 9TS U.K.

Social Learning Strategies Tournament - 10,000

Euro prize: <http://www.intercult.su.se/cultaptation/-tournament.php> The University of St Andrews is a charity registered in Scotland : No SC013532

Luke Rendell <ler4@st-andrews.ac.uk>

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AmericanMNH EvolutionaryBiology

Ph.D. in Comparative Biology Richard Gilder Graduate School

Our unique, 4-year accelerated Ph.D. program focuses on the history and interactions among species, within and between biotas, and across time and space. We offer:

Multi-faceted curriculum featuring field work, teaching assistantships and collections-based research.

2:1 faculty to student ratio and comprehensive financial support.

200 active scientists, 40 curators/professors, 32 million specimens and a 400,000 volume natural history library.

Application deadline is December 15, 2008. Visit <http://rggs.amnh.org> for more information.

perkins@amnh.org

Birmensdorf Switzerland NicheEvolution

Ph.D. Position Open

Project: Evolutionary Niche dyNamics of Invasive

Species (ENNIS)

Project Description: The ENNIS project seeks to understand the relationship between the evolutionary history of a clade, the niche variation and accompanying variation in the distribution of species, and the tendency for plant species to become invasive and/or naturalized. The project will focus on clades that have naturalized and invasive species in Switzerland and central Europe. We will use an interdisciplinary approach that includes activities in niche modeling, sequencing DNA regions, phylogenetic reconstruction and modeling trait evolution. The research includes characterization of the environmental niches and distribution of clade members using multivariate statistics and niche-based species distribution modeling; bioinformatics approaches to the use of sequence and phylogenetic databases, and use of other databases on the distribution of invasive species. A substantial portion of the research will involve production of DNA sequence data to complete phylogenetic trees of species in clades that contain invasive and naturalized species in central Europe. Collection of material for sequencing, and additional data on species global distributions, will involve visiting national herbaria, botanical gardens, individual researchers, and doing fieldwork throughout the sum distribution of the species in the focal clades. Phylogenetic reconstruction of evolutionary relationships will be undertaken using likelihood and Bayesian methods. Modeling of evolutionary processes of ecological diversification will be approached through the use of experimental software and the development of original algorithms.

The Ph.D. Student Position

Description The position includes funding for salary, travel and all research expenses for three years. You will be matriculated in the Ecology and Evolution doctoral program of the University of Lausanne (UNIL), Switzerland, and will be a member of both the Department of Ecology and Evolution (DEE) at that institution and at the Federal Research Institute WSL, located in Birmensdorf near Zürich. You will spend substantial periods in residence at both institutions during the three-year period under the supervision of Drs. Peter B. Pearman (WSL) and Nicolas Salamin (UNIL).

Application deadline: 15 February 2009

Starting date: You would hopefully be ready to begin by June 1st, 2009

For requirements and how to Apply: See websites

<http://www2.unil.ch/phylo> http://www.wsl.ch/-personal_homepages/pearman After reviewing the information available at the web sites, please direct

your questions to:

Peter B. Pearman Pearman@wsl.ch Or Nicolas Salamin Nicolas.Salamin@unil.ch

–

Peter B. Pearman Land Use Dynamics Federal Research Institute WSL Zürcherstrasse 111 8903 Birmensdorf Switzerland

pearman@wsl.ch pearman@wsl.ch

BlackHillsStateU Genomics

Black Hills State University ' Masters of Science in Integrative Genomics

Several Masters Graduate Assistant (GA) positions are available for Spring 2009 (January) or September (2009) in Integrative Genomics (IG) Masters program at Black Hills State University, Spearfish, SD. The GA positions are available to students interested in working with any member of the IG faculty (<http://www.bhsu.edu/Academics/TheColleges/-CollegeofArtsandSciences/DepartmentsandPrograms/Masters/Faculty/tabid/4950/Default.aspx>).

Integrative Genomics is an interdisciplinary graduate program that combines genomics, ecology, evolution, and physiology to better understand the evolutionary forces that have shaped the mechanisms that are important to species interactions in the wild. The program is designed to provide those seeking a Masters degree the necessary skills and concepts to work cooperatively with others in a research area that takes a systems-wide approach and incorporates an organism's history and natural environment to understand organization and expression at the genomic level. Exposure to modern techniques and instrumentation in the laboratory and field prepares students for success in both academic and other biotechnology-related pursuits.

Integrative Genomics GAs receive an annual stipend of \$16,640 and additional funds for laboratory supplies and expenses.

For an overview of the IG program and application information please visit our website <http://www.bhsu.edu/Academics/TheColleges/-CollegeofArtsandSciences/DepartmentsandPrograms/Masters/tabid/2164/Default.aspx> or contact

Garth M. Spellman, Ph.D. Assistant Professor CCBW/Westcore Black Hills State University 1200

University Street, Unit 9053 Spearfish, SD 57799-9053 ph: 605-642-6854 garthspellman@bhsu.edu <mailto:garthspellman@bhsu.edu> <http://www.bhsu.edu/artssciences/asfaculty/gspellman/-Welcome.html> < <http://www.bhsu.edu/artssciences/asfaculty/gspellman/Welcome.html> >

Founded in 1883, Black Hills State University is located in beautiful Spearfish, SD, the hub of the Northern Black Hills with a population of more than 10,000. Located on I-90, 10 minutes from the Wyoming border, Spearfish is only 46 miles from Rapid City, 65 miles from Mount Rushmore National Memorial and is an hour drive from Devils Tower and the Badlands of South Dakota. Spearfish Canyon, one of the oldest and most scenic canyons in the west, is a local favorite for hiking, biking and sightseeing.

– Garth M. Spellman, Ph.D. 1200 University Street, Unit 9053 Biology Department Black Hills State University Spearfish, SD 57799-9053

ph:605-642-6043 garthspellman@bhsu.edu
<http://www.bhsu.edu/artssciences/asfaculty/gspellman/Welcome.html> “Spellman, Garth”
 <GarthSpellman@bhsu.edu>

DartmouthCollege EvolutionaryBiol

PhD Graduate Student Opportunities at Dartmouth

The Graduate Program in Ecology and Evolutionary Biology at Dartmouth College invites applications from prospective Ph.D. students. We offer a wide range of opportunities for studying a diversity of biological systems from ecological and evolutionary perspectives, and our core group of enthusiastic faculty, graduate students and post-docs provide an exciting environment in which to pursue a Ph.D (<http://www.dartmouth.edu/~biology/>). Generous financial support is provided in the form of Dartmouth Fellowships, health care, and a substantial yearly discretionary fund for research and travel that are guaranteed for 5 years. Detailed information about the program, and access to online applications, are available at <http://www.dartmouth.edu/~biology/graduate/eeb/>. Students interested in alpine or polar ecosystems may also apply to the NSF IGERT training grant program on polar environmental change and its human dimensions. <http://www.dartmouth.edu/~igert/> Applications will be considered beginning December 15th. Promising applicants will be invited and hosted for in-

terviews February 6-8.

Dartmouth is an equal opportunity/affirmative action employer and encourages applications from women and members of minority groups.

Ryan Calsbeek Assistant Professor Department of Biological Sciences Dartmouth College Hanover, NH 03755
 ryan.calsbeek@dartmouth.edu

Ryan Calsbeek <ryan.calsbeek@dartmouth.edu>

FloridaStateU PhylogeneticsPhylogeography

Accepting Graduate Students for Fall 2009

The new lab of Alan R. Lemmon at Florida State University (Tallahassee) is now accepting Ph.D. students interested in studying phylogenetics, phylogeography, speciation, and/or population genetics. Members of the lab are encouraged (but not required) to develop independent projects that combine aspects of theoretical (statistical/computational) and empirical evolutionary biology. The current focus of the Lemmon lab is to develop and utilize statistical methods for phylogeography and phylogenetics, as well as to develop large numbers of nuclear markers using pyrosequencing techniques. The Lemmon Lab is housed in the Department of Scientific Computing but has strong ties to the Department of Biology. The Department of Scientific Computing at Florida State University (<http://www.csit.fsu.edu/>) is a unique, interdisciplinary group of faculty and students who test scientific questions and develop methods by applying computational and statistical techniques to interesting problems in Biology, Physics, Mathematics, Geology, and Chemistry. Students with primarily empirical projects are also encouraged to apply through the Department of Biology.

Members of the Lemmon Lab have access to the following resources:

Top-ranked High Performance Computing Facility (1500+ cores) State of the art genetics lab Reduced rate at University of Florida Genome Center Certified Nimblegen Microarray Facility State of the art equipment for behavioral experiments State of the art live animal facility Apalachicola National Forest (minutes from campus!)

Interested individuals should visit the lab website (<http://www.evotutor.org/LemmonLab/>), as

well as contact Dr. Lemmon directly (alemmon@evotutor.org).

– Alan R. Lemmon CPB Postdoctoral Fellow UC Davis
arlemmon@gmail.com

FloridaStateU SpeciationHerpetology

Now Accepting Graduate Students for Fall 2009

The laboratory of Emily Moriarty Lemmon at Florida State University (Tallahassee) is now accepting enthusiastic and motivated Ph.D. students, particularly those with evolutionary biology and herpetology interests for Fall 2009. The focus of the Moriarty Lemmon Lab is the study of speciation, and to study this process the lab employs an approach that integrates across diverse fields including behavioral ecology, phylogenetics, phylogeography, population genetics, genomics, and ecology.

Members of the lab are encouraged to develop their own study systems in North or South America, in addition to collaborating on current projects using chorus frogs (*Pseudacris*) as a model system. Interested prospective students should first contact Dr. Lemmon directly at chorusfrog@bio.fsu.edu to discuss research interests, and then apply through normal Florida State University channels. For more information, please see the laboratory websites at:

<http://www.bio.fsu.edu/chorusfrog/index.html> and
<http://www.bio.fsu.edu/faculty-moriarty-lemmon.php>

Emily Moriarty Lemmon Department of Biology
Florida State University <http://www.bio.fsu.edu/-chorusfrog/index.html> <http://www.bio.fsu.edu/-faculty-moriarty-lemmon.php> emlemmon@ucdavis.edu
emlemmon@ucdavis.edu

GhentU EvolutionaryRobots

The Research Group Bioinformatics and Evolutionary Genomics of the Department of Plant Systems Biology at VIB/Ghent University is currently looking for a PhD student

To work on a European FP7 Project entitled SYMBRION (Symbiotic Evolutionary Robot Organisms) - scientific research towards a PhD degree (4 year period, starting asap) - perform scientific research on the evolvability of symbiotic robot organisms, develop a robot genome and bio-inspired evolutionary strategies - interpret the characteristics and behaviour of the resulting robot organisms in an evolutionary context - regular interaction with an established network of top-level researchers - requirement of attending and presenting your work at international scientific meetings - publish in peer-reviewed international journals

Profile

- you have a master in Engineering - you have a strong interest in robotics and evolution - good knowledge of Java and C - good communication and writing skills - proficient in English - prepared to go abroad for several months for training purposes

Further information SYMBRION website: <http://www.symbion.org/> Visit us at <http://bioinformatics.psb.ugent.be/> Send your CV by email to Prof. Dr. Yves Van de Peer (yves.vandeppeer@psb.ugent.be <mailto:yves.vandeppeer@psb.ugent.be>). Applications will be accepted until the position is filled.

– Yves Van de Peer, PhD.

Professor in Bioinformatics and Genome Biology Group
Leader Bioinformatics and Evolutionary Genomics VIB
Department of Plant Systems Biology, UGent Ghent
University Technologiepark 927 B-9052 Ghent Belgium

Phone: +32 (0)9 331 3807 Cell Phone: +32 (0)476 560 091 Fax: +32 (0)9 331 3809 email: yves.vandeppeer@psb.ugent.be

<http://bioinformatics.psb.ugent.be/> Yves Van de Peer
<yves.vandeppeer@psb.ugent.be>

Leipzig HumanOrigins

The Leipzig School of Human Origins, an International Max Planck Research School by the University of Leipzig and the Max Planck Institute for Evolutionary Anthropology, offers a unique interdisciplinary graduate program to study the evolutionary history of humans and great apes.

Graduate students are accepted into one of the following areas, but are encouraged to take part in courses

and seminars from all three disciplines:

Comparative and Molecular Primatology (Director: Professor Christophe Boesch) - focusing on the evolution of social and cultural systems in the great apes, as well as other relevant mammals.

Evolutionary and Functional Genomics, Ancient DNA, Molecular Anthropology and Genome Bioinformatics (Director: Professor Svante Paabo) - focusing on the evolutionary and functional genomics of humans and the great apes, as well as the retrieval of DNA from palaeontological remains.

Human Paleontology, Prehistoric Archaeology and Archaeological Science (Director: Professor Jean-Jacques Hublin) - focusing on computational approaches to the management and analysis of gene expression data.

We invite applications from all countries. Applicants must hold a Masters degree or equivalent in biology, biochemistry, anthropology, or related fields. If you hold an excellent BSc (1st class honours) please contact us about possible accession.

It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September.

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.

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

Term of Appointment: Fall 2009 Application Deadline: January 31, 2009

The language of the school is English. Visit www.leipzig.de for information on living in Leipzig, Germany, in the center of Europe.

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

–

Sandra Jacob Max Planck Institute for Evolutionary Anthropology / The Leipzig School of Human Origins (Ph.D. Programme) Deutscher Platz 6, 04103 Leipzig, GERMANY phone: ++49 (0) 341 3550-122; fax: ++49 (0) 341 3550-119 <http://www.eva.mpg.de/> <http://www.leipzig-school.eva.mpg.de/>

Sandra Jacob <jacob@eva.mpg.de>

MaxPlanckInst Evolution

Max-Planck-Institute for Ornithology, Vogelwarte Radolfzell, Germany is offering:

1 PhD Position in Evolutionary and Physiological Ecology

Job description: We are looking for a PhD student (m/f) in evolutionary and physiological ecology. The PhD position is part of the project /Evolutionary consequences of an urbanizing world/ funded by the Volkswagen-Foundation within the research initiative /Evolutionary Biology/ (<http://www.volkswagenstiftung.de/index.php?id=3&L=1> < <http://www.volkswagenstiftung.de/index.php?id=3&L=1> >). In this project we study the urbanization of animals and its ecological and evolutionary consequences.

Project description: Human impact in the global biosphere now controls many major facets of ecosystem function. One of the most striking man-made environmental changes is the existence and rapidly ongoing spread of urban areas. Human ecological impact has enormous evolutionary consequences as well and can greatly accelerate evolutionary change in the species around us. Anecdotal observations and recent studies support the idea that urbanization affects daily and seasonal organization of activities such as daily activity pattern, reproduction and migration of individuals thriving in urban areas. Using automated biotelemetry techniques (e.g. activity transmitters and light intensity micro loggers) the PhD project is aimed at understanding on the individual level to what extend urban life changes daily and seasonal organization of European blackbirds and to elucidate the causes and consequences of altered daily and annual rhythms in an rapidly urbanizing world.

Requirements: We are looking for an enthusiastic person, who is interested in behavioral ecology, physiology (endocrinology) and evolution, with good organizational skills, able to work independently as well as in a team (field experience with birds is advantageous), who would like to take this unique opportunity to combine field with lab work at the well-equipped Max-Planck-Institute for Ornithology.

Appointment: Starting date is January 1 2009 or later.

The appointment will be on a temporary basis for a maximum of 4 years. The gross salary starts at approximately 1400,- per month depending on age and experience (TVöD 13/2, Stufe 1).

Information: Additional information about this appointment is available upon request from Jesko Partecke (partecke@orn.mpg.de <mailto:partecke@orn.mpg.de> or ++49-7732-1501-67). More general information about the Max-Planck-Institute for Ornithology can be found on our website (<http://orn.mpg.de/>).

Application: Please send your application including complete curriculum vitae, a transcript of the university diplomas, a summary of the Masters (Diplomas) thesis and names and addresses of three referees to Jesko Partecke at the Department of Migration and Immuno-ecology, Max-Planck-Institute for Ornithology, Vogelwarte Radolfzell, Schlossallee 2, 78315 Radolfzell, Germany, or by email to partecke@orn.mpg.de <mailto:partecke@orn.mpg.de>. The closing date for application is November 30 2008, and the interviews will take place in the first week of December 2008.

partecke@orn.mpg.de

MichiganStateU LakeSturgeon

Graduate Position: Ecological and genetic components affecting lake sturgeon recruitment

A PhD graduate position is available beginning in January 2009 or as soon as possible thereafter in the Department of Fisheries and Wildlife of Department of Zoology at Michigan State University (MSU). Funding is available for 5 years to investigate ecological and genetic factors associated with inter-annual variation in recruitment in long-lived iteroparous lake sturgeon. The successful candidate will have access to an extensive 8 year data base on adult breeding ecology, reproductive success and larval recruitment of lake sturgeon in the Black River watershed in Michigan.

We seek a highly motivated individual with experience and desire to work in both field and laboratory settings. Work will involve (a) in-stream work with spawning adults and at the egg and larval stages, (b) common-garden experiments to investigate environmental and genetic components of variation embryonic and larval development in a newly constructed 3300

sq. ft. stream-side research facility on the river, and (c) genetic analyses to determine parentage to estimate inter-individual variation in reproductive success. The successful candidate will work with a strong interdisciplinary team of researchers from MSU and the Michigan Department of Natural Resources (MDNR) with backgrounds in evolutionary ecology, biometry, and fisheries ecology management.

Michigan State University is a large land-grant institution with an outstanding faculty and interdisciplinary programs at the departmental and university levels. Interested applicants are encouraged to review additional background on faculty (e.g., <http://www.fw.msu.edu/~scribne3>) and graduate programs in Zoology (<http://www.zoology.msu.edu>), Fisheries and Wildlife (< <http://www.fw.msu.edu/> -><http://www.fw.msu.edu>) and in the Ecology, Evolutionary Biology and Behavior (EEBB) program (<https://www.msu.edu/~eebb>).

Individuals interested in applying for this position should submit a statement of interest, a CV, GRE scores and their cumulative GPA along with names and contact information of three references to Dr. Kim Scribner. Applications will be screen immediately upon arrival. Questions about regarding the project can be addressed to Dr. Kim Scribner (MSU) at scribne3@msu.edu (517-353-3288) or Dr. Ed Baker (DNR) at bakerea@michigan.gov. (906- 249-1611, ext 309).

Kim Scribner <scribne3@msu.edu>

TexasAMU ParasiteEvolution

Accepting Graduate Students

The lab of Charles Criscione at Texas A&M University, Dept. of Biology is now accepting Ph.D. students interested in studying the ecology and evolution of parasites (e.g., mating systems, population genetics, phylogeography) in human, veterinary, and natural (plant or animal) systems. The Department of Biology faculty (<http://www.bio.tamu.edu/FACMENU/-facalph.htm>) has diverse expertise ranging from molecular/developmental genetics to evolutionary and behavioral theory. The Criscione lab is also part of the Interdisciplinary Research Program in Ecology and Evolutionary Biology at A&M (<http://eeb.tamu.edu/about/> -). A Masters or strong undergraduate research background is desirable. Texas A&M University is an equal

opportunity, affirmative action employer committed to diversity.

Interested individuals should visit the web sites below and contact Dr. Criscione directly (ccriscione@mail.bio.tamu.edu). <http://www.bio.tamu.edu/FACMENU/FACULTY/CriscioneC.htm>

<http://www.geocities.com/cooch2000/> Information on applying and guidelines for acceptance to the Dept. of Biology can be found at <http://www.bio.tamu.edu/GRADINFO/Index.html>

Charles D. Criscione, Assistant Professor Department of Biology Texas A&M University 3258 TAMU College Station, TX 77843-3258

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www.geocities.com/cooch2000 Charles Criscione
<ccriscione@mail.bio.tamu.edu>

TexasStateU MollyEvolution

BEHAVIORAL ECOLOGY OF SAILFIN AND AMAZON MOLLIES

Teaching Assistantship for MS or Ph. D.

Applications are being sought for one student interested in pursuing an academic career studying various aspects of the behavior of sailfin and Amazon mollies starting no later than January 2009. Amazon mollies, *Poecilia formosa*, are a clonal, all female species that are essentially sexual parasites as they require sperm from the closely related sailfin molly, *P. latipinna* to start the development of their eggs but do not use it to fertilize their eggs. Conflict exists between male sailfin mollies that prefer to mate with conspecifics and Amazon mollies that require matings with these males. We are looking for a student to work on some aspects of this system and can supply Teaching Assistantships for the fall and spring terms. See <http://www.bio.txstate.edu/~gabor/gabor.htm> for details about our lab and our research interests.

The Department of Biology offers a strong environment in evolutionary ecology as the basis for training in behavioral ecology. Students will benefit from interactions with other faculty interested in evolutionary questions such as: Jim Ott (Insect-plant interactions and ecological genetics), Noland Martin (Plant population genet-

ics), and Chris Nice (Speciation in insects and phylogeography). We have both General Biology and Population and Conservation Biology MS programs available and a Doctoral program in Aquatic Resources.

For more information on admissions see <http://www.bio.txstate.edu/grad/GradGuide.html>. Please also see the Department of Biology (<http://www.bio.txstate.edu/>) and Texas State University (<http://www.txstate.edu/>) web sites for more information. Currently there is a soft deadline for applications to the MS program.

To apply please send a statement of interest and a CV/resume of related research, coursework, GPA, GRE, and any other relevant experience to Caitlin Gabor by email (gabor at txstate.edu). Reference letters for top candidates will be solicited at a later date. Applications will be reviewed as they come in.

Caitlin R. Gabor, Ph. D. Associate Professor Texas State University Department of Biology, Science Building Room 384 San Marcos, TX 78666-4615 Work: (512) 245-3387; Fax: (512) 245-8713 E-mail: gabor@txstate.edu

<http://www.bio.txstate.edu/~gabor/gabor.htm> gabor@txstate.edu gabor@txstate.edu

UEastAnglia TurtleConservationGenetics

Evolutionary and conservation genetics of the Hawksbill turtle

Start Date October 2009

Funding open to UK and EU candidates

Genetic studies have determined many aspects of the biology of marine turtles, e.g. population structure, migration and natal philopatry, however little work has been done on their mating systems. Although it is easy to observe females nesting it is normally impossible to know the identity of the males that have fertilised the eggs as mating happens at sea, often a long way away from the nesting grounds. Such details are of evolutionary interest but also crucial in directing the conservation of this highly vulnerable group. For example, knowing paternity means that the effective population size can be estimated. Determining mating preferences can also be important - if females prefer bigger males then the loss of such males through poaching may be

highly detrimental. Alternatively, if females prefer genetically dissimilar males to reduce inbreeding, population fragmentation may have a greater impact than previously thought. The PhD will assess patterns of paternity and genetic diversity within the Cousine island population of the hawksbill turtle, *Eretmochelys imbricata*. No such information is currently available on this species. This information will be used to determine the mating system, to accurately calculate effective population size, to assess levels of genetic variability (and viability) within this population and to determine connectivity between the Seychelles population and other populations of this turtle around the world. The study will produce important knowledge on this critically endangered species that will assist with its conservation, but the finding will also be of great general interest to biologists and the public in general.

This work would be in collaboration with Cousine Island. Permission has already been gained to undertake sampling of this species and one year of preliminary samples are already available for use.

Supervisor; Dr David S Richardson in collaboration with Cousine Island

Information on the project and how to apply can be found at:

http://biobis.bio.uea.ac.uk/Resproject/bio_all.aspx

The project is a mix of molecular lab work and field work but the applicant must be very clear that much of the time and basis of the study will be lab based (Molecular DNA work in the lab). So while field skills are useful having molecular experience, or the desire to work with such techniques, is more important. The Seychelles fieldwork component will be more limited to just a few months per year. The person must also be hard working, organized and focused on the evolutionary aspects of the project and not just the conservation. Although the initial goals are well defined there would be plenty of scope for the PhD to go into new areas. In many ways it is going to be more an evolutionary ecology project, understanding patterns of mate choice and problems with low genetic diversity etc, than it is going to be just a conservation project.

Applicants should complete the application form available (see above) together with a CV and cover letter within the next 2 weeks. Please mark clearly that they are applying for a Dean's studentship in BIO for Oct 2009 entry. Please also send a copy of the application directly to david.richardson@uea.ac.uk <mailto:david.richardson@uea.ac.uk>

Dr. David S. Richardson School of Biological Sciences,

University of East Anglia, Norwich NR4 7TJ England
http://biobis.bio.uea.ac.uk/biosql/fac_show.aspx?ID=325
 email david.richardson@uea.ac.uk
 <mailto:david.richardson@uea.ac.uk> Telephone
 01603 591496 FAX 01603 592250

“Richardson David Dr (BIO)”
 <David.Richardson@uea.ac.uk>

UFlorida InsectEvolution

Ph.D. Position: Insect behavior and evolution at the University of Florida, beginning Fall 2009.

A Ph.D. position is available in the laboratory of Dr. Christine W. Miller to investigate the evolution of behavior and morphology in insects. The student will work with Dr. Miller to develop his/her own study system for addressing important research questions in the following general areas: animal behavior, plant-insect interactions, sexual selection, and/or phenotypic plasticity. Integration of field projects and laboratory experiments is an important aspect of this work. Additional information about this research program can be found at: www.millerlab.net Applicants should be motivated, independent, and have previous biological research experiences. Excellent grades and scores will be an advantage.

The University of Florida provides graduate students with great resources and facilities including greenhouse space, growth chambers, and field stations. Students are also welcome to conduct fieldwork internationally.

Prospective students have the option to apply to the Interdisciplinary Ecology Program (<http://snre.ufl.edu/>) or the Entomology Program (<http://entnemdept.ifas.ufl.edu/>) at the University of Florida. Application materials are best submitted by January 1, 2008.

Interested prospective students should contact Dr. Christine W. Miller (cwmiller@ufl.edu). In your email, provide information on your background (transcripts, past research experience, and contact information for up to 3 references), a brief outline of your research interests, and why you want to pursue that research in my lab.

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville is much more than a stereotypi-

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

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

Christine W. Miller University of Florida Entomology & Nematology Dept. Gainesville, FL 32611-0620
Email: cwmiller@ufl.edu<<mailto:cwmiller@ufl.edu>>
Website: www.millerlab.net< [http://-www.millerlab.net/](http://www.millerlab.net/) >

"Miller,Christine Whitney" <cwmiller@UFL.EDU>

UGöttingen ChemoautotrophicEvolution

Could you please post the following ad for a PhD position (research topic: evolution of chemoautotrophic symbioses)?

Thank you very much for your help!

Best wishes, Sharmishtha

The newly formed junior research group "Geomicrobiology and Biosignatures in the Deep Biosphere" headed by Dr. Sharmishtha Dattagupta in the Courant Research Centre Geobiology at the University of Göttingen invites applications for one Ph.D. position

The CRC Geobiology (Coordinator: Prof. Reitner, Department of Geobiology; www.uni-goettingen.de/-crc.c) is one of five interdisciplinary research centres (www.uni-goettingen.de/crc) recently established by the University of Göttingen as part of its institutional strategy "Tradition - Innovation - Autonomy".

Our research group focuses on the microbial ecology

and evolution of chemoautotrophic ecosystems, with emphasis on animal-bacterial symbioses. Ecosystems sustained by chemoautotrophy are found at deep-sea hydrothermal vents, cold seeps and some sulfide-rich limestone caves. Terrestrial sulfide-rich caves are easier to access than deep-sea habitats and offer an excellent opportunity to study the interplay between geochemistry, microbes and macrofauna. Our primary research field site is the actively forming sulfide-rich Frasassi cave complex of central Italy that hosts an ecosystem sustained entirely by microbial chemoautotrophy. We have recently discovered a symbiosis between a Frasassi-endemic amphipod and filamentous chemoautotrophic bacteria. Future projects will address the potential benefits of the bacterial symbionts to the amphipod host, and examine the evolution of this symbiosis.

Candidates should hold either a Master's degree or a German "Diplom" in Molecular Biology, Microbial Ecology or Geomicrobiology. Fieldwork experience is desired. The working language of the group is English, and applicants from abroad are encouraged to apply. The University of Göttingen seeks to increase the participation of women in areas in which they are currently underrepresented and therefore explicitly urges women to apply. Disabled persons with equivalent aptitude will be favored.

The position is initially available for two years starting immediately and can be extended to three years following favorable reviews. Salary is in accordance with the German state regulated public service salary scale (TV-L 13).

For informal enquiries please contact sdattag@uni-goettingen.de Please submit your application online under the given link: www.uni-goettingen.de/positions-exini. Application deadline is November 21, 2008.

Sharmishtha Dattagupta Junior Professor Georg-August-Universität Göttingen Courant Research Centre Geobiology Goldschmidtstr. 3 37077 Göttingen, Germany Phone (office): +49 551 39 12910 Mobile: (+49) 0157 75823206 Email: sdattag@uni-goettingen.de

Sharmishtha Dattagupta <sdattag@uni-goettingen.de>

UHelsinki EvolutionaryGenetics

Department of Biological and Environmental Sciences,

University of Helsinki, invites applications for
 Doctoral Student Position

The Doctoral Student will be a part of the Evolutionary Genetics Research Unit (EGRU) in their project "Long term phenotypic trends of migratory whitefish (*Coregonus lavaretus*): evolutionary and genetic perspectives". The assignment will begin on the early 2009 (start date is flexible) and end in the end of 2011. EGRU is part of the Finnish Centre of Excellence in Evolutionary Genetics and Physiology (<http://www.coe.fi>). Supervisors of the project are Dr. Anna Kuparinen and Prof. Juha Merilä. The research work is done in collaboration with Finnish Game and Fisheries Research Institute (<http://www.rktl.fi>).

The aim of this PhD project is to investigate the trends in growth, age and size at maturation as well as genetic structuring of the whitefish populations spawning in two Finnish rivers. The specific aims are to investigate temporal phenotypic trends, to assess how these coincide with possible changes in the genetic structure of the populations, and to gain insights into possible genetic basis of the phenotypic trends. The analyses will be based on scale samples collected over two decades from the spawning stock. The work includes aging and back-calculation of growth trajectories from scale growth layers, population genetic and statistical analyses of the data.

A successful candidate for this position is interested on conservation and population genetics problems, and/or problems in ecological and evolutionary genetics in general. A background in population genetics/genomics and/or evolutionary biology is desirable.

We are looking for an individual with a Masters Degree or equivalent degree in Biology or Genetics, who is highly self-motivated and can work both independently and in a team. The working language will be English. Proven skills in English are required for admission to post graduate study program (minimum 550 points from TOEFL PBT, or grade A, B or C from CAE/CPE).

An overview of our past and current research can be found at <http://www.helsinki.fi/biosci/egru> and <http://www.coe.fi>.

The salary will be based on level 2 of the demands level chart for teaching and research personnel in the salary system of Finnish Universities. In addition, the appointee will be paid a salary component based on personal work performance (the total salary will vary between 1785 - 2197 EUR per month).

The application should include a complete - CV - Publi-

cation list (if available) - A scanned academic transcript (list of grades in university courses) - A statement of research interests and motivation for applying this position not exceeding two pages - Two references.

Applications should be addressed to the Faculty of Biosciences and sent to Department of Biological and Environmental Sciences, Johanna Paananen, P. O. Box 56 (Viikinkaari 9), FIN-00014 University of Helsinki, to arrive no later than 1st December 2008, by 3:45 p.m. (local Helsinki time). More information on the Doctoral Student Position from the supervisor Dr. Anna Kuparinen (tel. +358 9 191 57708, email. anna.kuparinen@helsinki.fi).

More information about Finland, University of Helsinki, and Department of Biological and Environmental Sciences can be found from the following links: <http://www.helsinki.fi/en/index.html> (city) <http://www.helsinki.fi/university/> (university) <http://www.helsinki.fi/bio/english/> (department) Further information about University of Helsinki International Staff Services: <http://www.helsinki.fi/intstaff/> Johanna Paananen <johanna.paananen@helsinki.fi>

UHelsinki MarinePhylogeography

A postgraduate student position is available at the University of Helsinki, Finland, in a project that will address the connections between North Atlantic and North Pacific faunas.

The project will use molecular marker data for a comparative phylogeographic analysis of several fish and invertebrate taxa, to assess the history of trans-Arctic connections during the Pleistocene. The research will address the generality of the hypothesis that the amphiboreal populations in the two oceans were repeatedly reconnected by invasion events across the polar seas, and that hybridization following such contacts of differentiated sister lineages or taxa may have been important in determining the assembly and diversity of current boreal communities - or will be in the future, following the ongoing warming of polar environments.

The position is suitable for students from diverse backgrounds, e.g. in evolutionary biology, marine biology, invertebrate or fish biology, population genetics, or molecular systematics. We are looking for an enthusiastic candidate keen to work both in the molecular laboratory and the field, and curious in exploring the signals of biogeographic history in the genomes of ma-

rine organisms, using current tools of data analysis.

The position is in the research group of Dr. Risto Vainola, based at the Finnish Museum of Natural History and at the Molecular Ecology and Systematics Laboratory of the University of Helsinki, Finland. The project is funded by the Academy of Finland.

The studentship will start in early 2009 (exact dates to be agreed), and is available till the end of 2012. Deadline for applications is November 20, 2008.

For further information on the project and the research group, for contact details, and for instructions on how to apply, please visit <http://www.fmnh.helsinki.fi/vainola>. Dr. Risto Vainola Finnish Museum of Natural History, POB 17 FI-00014 University of Helsinki, Finland vce +358 44 588 6868 fax +358 9 191 28888 risto.vainola@helsinki.fi <http://www.fmnh.helsinki.fi/vainola> risto.vainola@helsinki.fi

UKansas EvolutionaryBiol

Opportunities for Graduate Study in Ecology and Evolutionary Biology

The Department of Ecology and Evolutionary Biology at the University of Kansas (KU-EEB: <http://www2.ku.edu/~eeb/>) seeks applications from highly qualified and motivated graduate students. KU-EEB includes 43 faculty members and about 70 graduate students whose research focuses on three broad topical domains: Biodiversity and Macroevolution, Ecology and Global Change Biology, and Evolutionary Mechanisms.

Applications from all qualified students will be given serious consideration; however, we specifically seek students whose interests match the following descriptions. Students who wish to pursue research in these areas are encouraged to review the research profiles of the faculty members listed below.

Ecology and Global Change Biology

Dr. Ford Ballantyne (<http://www2.ku.edu/~eeb/faculty/ballantyne.shtml>): Developing models, grounded in empirical knowledge in an attempt to understand why populations fluctuate, how resources are apportioned among species, how trophic interactions structure communities and what drives element cycling from the level of individual organisms to entire ecosystems.

Dr. Sharon Billings (<http://www2.ku.edu/~eeb/faculty/billings.shtml>): We explore how global change perturbations such as rising atmospheric CO₂, land use change, rising temperatures, and changing water availability influence forest and grassland processes such as carbon biomass accrual and soil carbon and nitrogen pools and fluxes. There is a particular emphasis on stable isotope ecology as a tool for soil and tree eco-physiological studies, as well as microbial ecology.

Dr. Bryan Foster (<http://www2.ku.edu/~eeb/faculty/foster.shtml>): Experimental ecology, grassland dynamics, tests of community assembly theory, mechanisms of plant species coexistence and biodiversity, ecosystem consequences of biodiversity

Dr. James Thorp (http://www2.ku.edu/~eeb/faculty/Jim_thorp_web/index.htm): Freshwater ecology, specifically studies of the factors controlling the complexity of food webs in rivers and the relationships between riverine landscape heterogeneity and ecosystem function.

Dr. Joy Ward (<http://www2.ku.edu/~eeb/faculty/ward.shtml>): Understanding how global change factors influence the physiology, population structure, and evolution of plant species. More specifically, we seek to understand the effects of global change drivers that alter plant resource availability, such as changing atmospheric carbon dioxide concentrations, changing precipitation regimes, and rising temperatures.

Evolutionary Mechanisms

Dr. Justin Blumenstiel (<http://www2.ku.edu/~eeb/faculty/blumenstiel.shtml>): Evolution of genetic systems, particularly understanding the role that genetic conflict has had in shaping the evolution of meiosis and germline development.

Dr. Jennifer Gleason (<http://www2.ku.edu/~eeb/faculty/gleason.shtml>): Evolutionary genetics of sexual isolation between species through analyses of the genes underlying courtship behavior in *Drosophila*.

Dr. Lena Hileman (<http://www2.ku.edu/~eeb/faculty/hileman.shtml>): Integrating phylogenetic, molecular evolutionary, and molecular developmental approaches to investigate how flowers have evolved such a diversity of form.

Biodiversity and Macroevolution

Dr. Rafe Brown (<http://nhm.ku.edu/rbrown/>): Herpetological systematics and biodiversity, phylogenetic systematics, character evolution, phylogeography, population and conservation genetics, biogeography, and the evolution of animal behavior.

Dr. Pauly Cartwright (<http://www2.ku.edu/~eeb/>

faculty/cartwright.shtml): Investigating patterns and processes in medusozoan evolution. In particular I am seeking a PhD student to participate in the NSF-funded Cnidarian Tree of Life project to investigate higher-level hydrozoan phylogenetics.

Dr. Kirsten Jensen (<http://www2.ku.edu/~eeb/faculty/jensen.shtml>): Parasitology, with particular emphasis on the systematics, morphology, biodiversity, and life-cycles of tapeworms. Ph.D. student

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ULouisianaLafayette CaveCricketGenetics

Graduate Position (MS or Ph.D) in Conservation Genetics in the lab of Paul Leberg, Department of Biology, University of Louisiana. I am seeking a student for a lab and field-based project that will use DNA markers to determine the genetic structure and dispersal dynamics of a cave cricket inhabiting a series of caves of special conservation concern. The position, includes an annual stipend (dependent on student experience), full tuition waiver, and limited coverage for health insurance. The student could start as early as Jan 2009 or as late as Aug 2009. Candidates should have prior experience with DNA-based genetic analysis. Because of restrictions associated with some sample sites, only applicants that are US citizens will be considered. Via email, please send a letter of interest, a CV or resume (including GPA and GRE scores) and contact information for 3 references to Paul Leberg (Leberg@Louisiana.edu). Review of applicants will continue until a suitable candidate is identified. For more information visit on my lab, visit <http://www.ucs.louisiana.edu/~pll6743/>. Information on our graduate program can be found at <http://www.ucs.louisiana.edu/~pll6743/biogradstudies.htm>.

– Paul Leberg Professor and Graduate Coordinator Department of Biology University of Louisiana Lafayette Leberg@Louisiana.edu

Paul Leberg <leberg@louisiana.edu>

UMaryland EvolutionaryBiol

University of Maryland BEES Graduate Program

The interdisciplinary graduate program in Behavior, Ecology, Evolution and Systematics (BEES) at University of Maryland is looking for exceptional students to enter the Ph.D. program for the academic year 2009-2010. The BEES program consists of over 50 faculty members. At University of Maryland the participating departments include: Animal and Avian Sciences, Anthropology, Biology, Environmental Science and Technology, Cell Biology and Molecular Genetics, Computer Sciences, Entomology, Geology, and Plant Science and Landscape Architecture. We also have adjunct faculty from a number of affiliated institutions from the surrounding DC metropolitan area including the Smithsonian Institute, National Cancer Institute, UM Center for Advanced Research in Biotechnology (UMBI), and USDA.

We offer Darwin Fellowships to outstanding candidates and also have a jointly funded graduate fellowship program with the Smithsonian Institution for students planning on being co-advised by a SI adjunct faculty member along with a BEES UM faculty member. Research Areas of Smithsonian adjunct faculty members interested in co-advising students include Paleobiology, Genetics, and Molecular Systematics.

As a long-term member of the Organization for Tropical Studies (OTS) we encourage and fund participation by our BEES graduate students in these field courses.

Please see our BEES program web site for more information: <http://bees.umd.edu> Faculty accepting graduate students for the 2009-2010 academic year are listed here: http://bees.umd.edu/fac_accepting.html Please feel free to contact us if you have any questions at: beesoffice@umd.edu

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Michele R. Dudash Associate Professor of Biology Director of the Graduate Program in Behavior, Ecology, Evolution and Systematics

Dudash lab web page: <http://www.life.umd.edu/-biology/dudashlab/dudashlabpage.html> BEES program web page: <http://bees.umd.edu> Department of Biology, Room 3202 Biology Psychology Building University of Maryland College Park, MD 20742

<http://www.biology.umd.edu/> Office: 301-405-1642
Fax: 301-314-9358 Email: mdudash@umd.edu

Mailing Address: Department of Biology 1210 Biology-Psychology Bldg. #144 University of Maryland College Park, MD 20742

Summer Research Address: Mountain Lake Biological Station 240 Salt Pond Road Pembroke, VA 24136

<http://www.mlbs.virginia.edu/> Lab phone at MLBS is 540-626-5257 Fax at MLBS is 540-626-5229

Michele Dudash <mdudash@umd.edu>

UMontana EvolutionaryGenetics

Graduate position: Plant Evolutionary Genetics Fishman Lab, Organismal Biology & Ecology Program, Division of Biological Sciences, University of Montana

The Fishman Lab seeks a highly motivated Ph.D. (or M.S.) student interested in adaptation and speciation in flowering plants. Research in our lab uses the remarkably diverse and resource-rich genus *Mimulus* (<http://www.mimulusevolution.org/-background.php>) as a model for understanding the genetic mechanisms and evolutionary processes that maintain variation within populations and lead to divergence and speciation. Members of the lab are encouraged to develop independent research within this scope; projects generally include fieldwork in the Western U.S. as well as genetics lab work and greenhouse experiments. Current research areas include NSF-funded projects on the genetics of hybrid incompatibilities and on the causes and consequences of selfish chromosomal evolution, as well as studies of genome structural evolution, mating system and floral divergence, and local adaptation to abiotic and biotic conditions (e.g., flowering time, soil fungal associations). For more background, see the lab website at <http://dbs.umt.edu/-research%5Flabs/fishmanlab/>. For more information about the OBE graduate program, potential research projects, and fellowship opportunities at UM, please contact Lila Fishman (lila.fishman@mso.umt.edu).

Funding, tuition remission and benefits are guaranteed for 5 years (Ph.D. students) or 2 years (M.S. students) through a combination of RAships, TAs and (for qualified candidates) fellowships. Program policies and application requirements can be found at <http://dbs.umt.edu/graduate/OBE/index.php>. Online applications are due at <http://life.umt.edu/grad/name/>

organismalbiology by January 10, 2009 for full consideration.

lila.fishman@mso.umt.edu lila.fishman@mso.umt.edu

UMunich MarinePhylogeography

Munich, Germany: Research Associate (PhD) position in phylogeography and evolution of antarctic marine invertebrates.

We invite applications for a research associate (PhD) position in a project funded by the German Research Foundation (DFG) - "Phylogeny of selected key taxa of Antarctic deep-sea Porifera (Sponges) and the history of their radiation." in the DFG Priority Program SPP1158: "Antarctic Research in comparison with Arctic Ice regions".

The project is located in the newly established Molecular Palaeobiology Lab of the Department of Earth- and Environmental Sciences (Chair of Palaeontology) and the GeoBioCenterLMU of the Ludwig-Maximilians-Universität (LMU) München.

Sponges play an important ecological role as active filter feeders and contribute significantly to the flow of nutrients and pelago-benthic coupling, particularly notable for the extraordinary rich sponge populations of the Antarctic shelf. However, an unexpectedly high diversity and abundance of Porifera was found in the Antarctic deep-sea, partly exceeding those of the shelf, but nothing is known yet about the history of colonization, evolution, or phylogenetic relationships of Southern Ocean sponge communities.

In this project, we aim to resolve the systematic and phylogenetic relationships of selected Antarctic sponge taxa and reconstruct their phylogeographic history in comparison with the sponge faunas of other World oceans, mainly the Arctic. We use an integrative approach that combines molecular techniques with morphological and palaeontological data to achieve an understanding of the colonisation and the history of diversification of Antarctic Porifera, pivotal to assess the potential of these fragile communities for their resilience to global change.

This project will be carried out in close collaboration with Dr. Dorte Janussen at the Senckenberg Research Institute in Frankfurt (Germany).

We are seeking a highly motivated applicant with excel-

lent molecular- phylogenetic skills, both in the lab and in silico, demonstrated by an above-average MSc (or equivalent, e.g. German “Diplom”) degree in a related field. The working language of the group is English, and applicants from abroad are encouraged to apply.

The successful candidate will join a young and dynamic lab focussing on the molecular palaeobiology (micro- and macroevolution) of marine animals. More information about the lab can be found at <www.mol-palaeo.de>

Requirements: Degree in Biology (MA, MSc, or equivalent degree) or related field; very good and demonstrated knowledge of molecular lab techniques and understanding of molecular evolution including methods to infer molecular phylogenies and state-of-the art computer programs for such analyses; excellent communication and English language skills. Good working knowledge of UNIX/LINUX and Perl or Python desirable but not essential.

The position is initially available for 24 months (starting from 01.01. or 01.02.2009), with possible extension depending upon performance and availability of funding. It will be paid according to the German TV salary scheme TV-L E13/2.

Application: Send application including letter of intent, CV, PDF's of publications, and details of 2 referees as PDF (only) by email to Mrs. Brinkrolf (m.brinkrolf@lrz.uni-muenchen.de). Only applications stating the keyword “ANTARC-POR“ in the subject line of the email will be accepted. Application deadline is November 1, 2008.

The Department of Earth- and Environmental Sciences (Section Palaeontology) of the Ludwig-Maximilians-Universität Munich offers an excellent multidisciplinary research environment, one of its particular strength being due to the close interaction between Geosciences and the Biological Faculty in the framework of the GeoBioCenterLMU (<http://www.geobio-center.uni-muenchen.de>).

The LMU Munich is the leading research university in Germany, with a more than 500-year-long tradition, and builds upon its success in the Excellence Initiative, a Germany-wide competition promoting top-level university research. Munich has also been repeatedly voted Germany's most livable city.

The LMU Munich is an Equal Opportunity/Affirmative Action Employer and has an affirmative action policy for the disabled.

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Prof. Dr. Gert Wörheide Department of Earth-

and Environmental Sciences & GeoBio-CenterLMU Ludwig-Maximilians-Universität München Richard-Wagner-Straße 10 80333 München

Phone: +49 (89) 2180-6718 Fax: +49 (89) 2180-6601 E-Mail: woerheide@lrz.uni-muenchen.de

www.lmu.de/palaeo www.geobio-center.lmu.de
www.mol-palaeo.de www.spongebarcoding.org

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

UNewBrunswick Population Genetics

M.Sc. position: Marine invertebrate population genetics.

We seek a highly motivated and enthusiastic candidate to fill a full time MSc position in molecular ecology in the Department of Biology at University of New Brunswick (Fredericton). The successful candidate will join a multi-disciplinary collaboration between researchers at UNB, Carleton University, and Mount Allison University. The project will use DNA sequence variation to assess the level of genetic subdivision and patterns of gene flow among populations of the abundant marine amphipod *Corophium volutator*. Our aim is to model the environmental interactions between climate driven processes and the population dynamics of *C. volutator* throughout mudflats in the Bay of Fundy, Canada.

For more information about the Biology Department, see: <http://www.unb.ca/fredericton/science/biology/>
To learn about Graduate Studies at UNB, see: <http://www.unb.ca/gradschl/>

For more information, or to apply, email a CV or resume, a letter of interest, and contact information for two references to Jason Addison (jaddison@unb.ca). The review of applications will begin immediately and will remain open until the position is filled. The anticipated start date is January 2009.

– Jason A. Addison Assistant Professor, Department of Biology, University of New Brunswick, PO Box 4400 Fredericton, NB CANADA E3B 5A3 (506) 452-6210
jaddison@unb.ca jaddison@unb.ca

University of Guelph
Evolutionary Ecology

University of North Carolina at Chapel Hill
Evolutionary Biology

M.Sc. Opportunities in Plant Ecology, Evolutionary Ecology, and the Impact of Invasive Species on Ecosystems.

The Maherali Lab (Department of Integrative Biology, University of Guelph) is seeking M.Sc. candidates to begin graduate studies in Fall 2009. We study the evolutionary forces that shape the function of organisms and the link between plant function and ecological processes at the population, community and ecosystem levels. Our work is focused on understanding the causes of adaptive evolution in order to predict how organisms and ecosystems will change in the future, especially in response to climate change and the global transport of biota. Specific projects include the physiological ecology of drought adaptation, the ecology and evolution of plant fungal interactions, the ecological and evolutionary impacts of invasive species on native ecosystems. To learn more about research projects, visit our lab's web site at: <http://www.uoguelph.ca/~maherali/>. To apply, contact Dr. Hafiz Maherali (maherali@uoguelph.ca). In your email, provide information on your background (transcripts, past research experience, contact information for up to 3 references) and a brief outline of your research interests and why you want to pursue that research in my lab group. I am happy to consider applications from students with their own research proposals, as long as the work fits within the broad themes of research in my lab.

Please note that you must be a Canadian citizen to be considered for these positions. To be competitive for admission, you should also have a B+ average or higher in your last 2 years of undergraduate study. Undergraduate research experience, though not required, will be viewed as an asset.

– Hafiz Maherali Assistant Professor Department of Integrative Biology University of Guelph

Phone: 519-824-4120 ext. 52767 Email: maherali@uoguelph.ca Lab Web Page: www.uoguelph.ca/~maherali maherali@uoguelph.ca maherali@uoguelph.ca

University of North Carolina at Chapel Hill graduate program in Ecology, Evolution, and Organismal Biology (EEOB)

Dear Colleagues:

Our group at UNC has recently hired a number of new faculty including a number of evolutionary biologists, and our graduate program is expanding as a result. I am writing to ask you to pass along the information below to any outstanding prospective graduate students you know who are interested in pursuing a Ph.D. in the fields of Evolution, Ecology, or Organismal Biology.

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The Ecology, Evolution, and Organismal Biology (EEOB) group in the Department of Biology at the University of North Carolina, Chapel Hill is currently undergoing a major expansion of its Ph.D. program. We encourage applications from exceptional students who wish to pursue graduate studies in any field of EEOB.

Over the past 6 years, we have added 13 new members to our EEOB faculty. We are a large and diverse group with internationally recognized research programs in topics ranging from neurobiology and molecular evolution to evolutionary and community ecology. Many of the labs in our group are expanding, so UNC Biology is currently an exciting place to be for graduate studies in EEOB.

Graduate students who come to UNC can expect to work in a dynamic environment with outstanding colleagues. Many current EEOB students have been trained at top-tier institutions and have received nationally competitive fellowships and grants to fund their research. Students who are interested in our program should visit: <http://www.bio.unc.edu/graduate/-EEOB/> —

Best wishes,

Christopher S. Willett Department of Biology UNC Chapel Hill Chapel Hill, NC 27516

willett4@email.unc.edu

UNorthTexas ConservationGenetics

GRADUATE POSITIONS (M.S. or Ph.D.) in Conservation/Population Genetics in the lab of Dr. Jeff Johnson, Department of Biological Sciences and the Institute of Applied Sciences, University of North Texas (UNT), starting January or August 2009. I am seeking two highly motivated students with a demonstrated ability to work independently on lab and field-based projects that will focus on incorporating various genetic methodologies into the captive breeding program and management of the federally endangered Attwater's prairie-chicken (*Tympanuchus cupido attwateri*) and the phylogeography/population genetics of Aplomado falcon (*Falco femoralis*). The Attwater's prairie-chicken has been listed as endangered since 1973 with less than 40 individuals currently in the wild and approximately 200 individuals in captivity. With the Aplomado falcon, extensive reintroduction efforts have been conducted in south and west Texas and New Mexico after the species had declined precipitously in the northern part of its distribution, including Mexico and much of Central America. There will also be the option of pursuing additional independent projects related to avian ecology, phylogenetics and conservation.

Candidates should have prior experience with DNA-based genetic analysis and must be willing to work closely with agency personnel to coordinate sample collections and analyses. Student will join a new lab group pursuing a variety of research projects in the area of molecular ecology and phylogenetics (see <http://www.biol.unt.edu/~jajohnson>). Funding for this project is provided by a renewable nine-month teaching assistantship at \$13,000-16,000 (M.S.) or \$16,500-19,000 (Ph.D.) depending on the courses taught, including health benefits and numerous opportunities to obtain additional funding within the Department and the University. Both the Department of Biological Sciences and the Institute of Applied Sciences offer active participation in interdisciplinary research by providing a strong environment in evolution, molecular biology, ecology, environmental philosophy, and conservation biology.

Candidates are invited to apply to the M.S. or Ph.D. program in either Biological Sciences (<http://www.biol.unt.edu>) or Environmental Science (<http://www.ias.unt.edu>). Interested persons should also send via email (EM: jajohnson@unt.edu) a letter of interest,

transcripts and GRE scores and contact information for three references to:

Jeff A. Johnson Department of Biological Sciences Institute of Applied Sciences University of North Texas 1155 Union Circle #310559 Denton, TX 76203

Tel: 940-369-8071 Email: jajohnson@unt.edu

Deadline: Nov 15 (for January 20th start date) or July 15 (Aug 27 start date). Review of applicants will begin immediately and will continue until suitable candidates are identified.

“Johnson, Jeff” <jajohnson@unt.edu>

UNotreDame EvolutionaryBiology

GLOBES Program at the University of Notre Dame offers NSF-IGERT Fellowships in Environmental and Human Health

The GLOBES program at the University of Notre Dame is seeking outstanding PhD candidates in the biological and social sciences to join our team of faculty and scholars in studying Global Linkages of Biology, the Environment, and Society. Team-based research efforts in GLOBES investigate pressing problems in environmental degradation, the evolution and genetics of infectious disease, and the ecological and evolutionary dynamics of the spread of invasive species. Notre Dame faculty and graduate students involved in GLOBES study topics including speciation, ecological genetics, and the evolutionary consequences of climate change.

Launched by funding from an IGERT (Integrated Graduate Education, Research and Traineeship) grant from the National Science Foundation, GLOBES augments a traditional PhD degree with an interdisciplinary training component composed of coursework, intensive study modules and a real world practicum focused on issues in environmental and human health.

Applicants who have a strong desire to pursue team-based, interdisciplinary studies and environmental research are encouraged to apply through a home department of study. Fellowships, available to U.S. residents and permanent citizens, feature a five-year, generous support package that includes 2.5 years of IGERT stipends in the amount of \$30,000 annually, a full waiver of graduate tuition, and supplemental research and travel funds. Off-years of IGERT support are funded by home department teaching and research assistantships.

Applicants must prepare a statement of interest that indicates their desire to be considered for a GLOBES fellowship and explains how their background and research interests align with the central themes of the GLOBES program.

Application deadlines for Fall 2009 admission vary depending on the home department of study (Jan. 5 is the deadline for Biological Sciences). Explore the research interests of participating faculty from the various departments involved in GLOBES and learn more information by visiting the website at <http://globes.nd.edu> < <http://globes.nd.edu/> >

Jeffrey L. Feder GLOBES Program Director E-mail: feder.2@nd.edu

David Lodge GLOBES Interim Director 2008-09 Email: dlodge@nd.edu Department of Biological Sciences University of Notre Dame, IN 46556-0369 Phone: (574) 631-4159 <http://globes.nd.edu> < <http://globes.nd.edu/> >

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Ginna Anderson <vanderso@nd.edu>

UOtago EvoDevo

PhD Position & Scholarship

A PhD scholarship, funded through the National Research Centre for Growth & Development (NRCGD), is available in the laboratory of Professor Hamish G Spencer at the University of Otago, Dunedin, New Zealand.

The student will join a collaborative research group comprising members of the NRCGD studying theoretical issues surrounding the evolution of forms of developmental plasticity. The specific project is entitled "Modelling transgenerational influences" and is motivated by the observation that the inheritance of developmentally plastic responses has obvious advantages in environments where the time scale of change is greater than generation time. Understanding these issues, and how to incorporate this understanding into animal-breeding strategies (another focus of the NRCGD) requires a mathematical modelling approach.

One of the government-funded Centres of Research excellence, the NRCGD < <http://www.growthcentre.ac.nz/uoa/nrcgd/> > brings together five groups of world class scientists with very different skill sets and resources working in Auckland, Hamilton, Palmerston North, Christchurch and Dunedin in the Universities of Auckland < <http://www.auckland.ac.nz/> >, Massey < <http://www.massey.ac.nz/> > and Otago < <http://www.otago.ac.nz/> > and in association with AgResearch < <http://www.agresearch.co.nz/> >. The Centre is headquartered in the Liggins Institute of the University of Auckland < <http://www.liggins.auckland.ac.nz/> >, already internationally known for many contributions in the area of growth and development. The Department of Zoology < <http://www.otago.ac.nz/zoology/index.html> > at the University of Otago < <http://www.otago.ac.nz/> > is one of the top-rated research departments in the country, with many faculty having international reputations in their areas of expertise and making major contributions to answering fundamental questions in basic and applied research.

The scholarship pays a tax-free emolument of NZ\$25,000 + fees for three years. Applicants should have an MSc or BSc(Hons) degree or equivalent in biology or mathematics or a related field. Some training in evolutionary theory and mathematical modelling is desirable. Interested candidates should send a CV, statement of interest, and contact information for two potential referees as a single PDF file to h.spencer@otago.ac.nz.

Applications will be reviewed beginning 30 October 2008. The position is expected to start on 1 March 2009, but there is some flexibility about this date.

Professor Hamish G. Spencer Allan Wilson Centre for Molecular Ecology and Evolution National Research Centre for Growth and Development Department of Zoology University of Otago Dunedin New Zealand

Email: h.spencer@otago.ac.nz <mailto:h.spencer@otago.ac.nz> or hod.zoology@otago.ac.nz <mailto:hod.zoology@otago.ac.nz>

Postal: Department of Zoology, P.O. Box 56, Dunedin 9054 Courier: 340 Great King Street, Dunedin 9016 Phone: +64-3-479-7981 Fax: +64-3-479-7584

Departmental Website: <http://www.otago.ac.nz/-zoology/staff/academic/spencer.html> AWC

Website: <http://awcmee.massey.ac.nz/> > NRCGD Website:

<http://www.growthcentre.ac.nz/uoa/nrcgd/> NZ Mollusca Website: <http://www.molluscs.otago.ac.nz/> >

Hamish Spencer <hamish.spencer@otago.ac.nz>

UOtago EvolutionaryBiol

PhD Scholarships: Department of Zoology, University of Otago, Dunedin, New Zealand

Several PhD scholarships are available in the Department of Zoology < <http://www.otago.ac.nz/zoology/index.html> > at the University of Otago < <http://www.otago.ac.nz/> > in southern New Zealand. The Department of Zoology < <http://www.otago.ac.nz/zoology/index.html> > is one of the top-rated research departments in the country, with many faculty having international reputations in their areas of expertise and making major contributions to answering fundamental questions in basic and applied research.

For further information, please see <http://www.otago.ac.nz/zoology/> . Professor Hamish G. Spencer Allan Wilson Centre for Molecular Ecology and Evolution National Research Centre for Growth and Development Department of Zoology University of Otago Dunedin New Zealand

Email: h.spencer@otago.ac.nz <<mailto:h.spencer@otago.ac.nz>> or hod.zoology@otago.ac.nz <<mailto:hod.zoology@otago.ac.nz>>
Postal: Department of Zoology, P.O. Box 56, Dunedin 9054
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Phone: +64-3-479-7981 Fax: +64-3-479-7584

Departmental Website: <http://www.otago.ac.nz/zoology/staff/academic/spencer.html> AWC Website: <http://awcmee.massey.ac.nz/> <<http://awcmee.massey.ac.nz/>> NRCGD Website: <http://www.growthcentre.ac.nz/uoa/nrcgd/> NZ Mollusca Website: <http://www.molluscs.otago.ac.nz/> <<http://www.molluscs.otago.ac.nz/>>

Hamish Spencer <hamish.spencer@otago.ac.nz>

USalzburg EvolutionaryBiol

THREE-YEAR PHD POSITION IN PLANT EVOLUTIONARY BIOLOGY

A Ph.D. position in Plant Evolutionary Biology is available at the Dept. of Organismic Biology, Division of

Plant Ecology & Diversity, University of Salzburg, Austria, with Prof. Hans Peter Comes and Dr. Gunter Fischer to study the ecology and evolution of reproductive traits in the orchid genus *Bulbophyllum* from the Southwest Indian Ocean region (Madagascar, Comoros, Mascareignes)

This research project will involve refined molecular-phylogenetic (ITS, cpDNA, single/ low-copy nuclear genes), morphological and pollination-experimental studies in a previously identified clade comprising c. 26 species, mainly distributed in Madagascar, but also occurring in the remote oceanic islands of La Réunion/Mauritius (Mascareignes) and the Comoros, and on the East African continent. These analyses will then be complemented by reconstructions (optimizations) of ancestral reproductive/floral-characters, areas and habitat preferences in conjunction with a molecular dating approach using paleogeological and fossil-based calibrations. Together, this will allow us to infer how mating types (outcrossing vs. auto-pollination), and associated floral traits, have changed within the clade over evolutionary time and under which spatial, temporal and ecological circumstances.

The ideal applicant has a strong interest in plant evolution and a strong background in plant molecular phylogenetics, pollination experimental work, and statistical analyses. As extensive fieldwork in remote places of Madagascar is required, the successful candidate must also have a strong physical fitness and experience in conducting fieldwork under tropical rainforest conditions. A MSc, diploma degree or equivalent in Botany, Ecology, Genetics or Evolutionary Biology is required. Fluent English is a must and French as second language would be an advantage.

Funding is for three years by the Austrian National Science Fund (FWF). The University of Salzburg (<http://www.uni-salzburg.at/>) offers excellent facilities, and a very pleasant working and living environment in one of the most beautiful landscapes in Austria.

Please send a letter of application together with a full CV, a copy (pdf) of your master/diploma certificate and thesis, and the addresses of three referees to:

peter.comes@sbg.ac.at or gunter.fischer@sbg.ac.at

Prof. Hans Peter Comes Department of Organismic Biology Division of Plant Ecology & Diversity Paris-Lodron-University Salzburg Hellbrunnerstr. 34, A-5020 Salzburg Austria Tel.: ++ 43 (0) 662 8044-5505 Fax: ++43 (0) 8044-142

The position will be filled as soon as a suitable applicant is found.

gunter.fischer@sbg.ac.at

USouthernCalifornia Speciation

Ph.D. position, Edmands lab, Department of Biological Sciences, Marine Environmental Biology Section, University of Southern California

The Edmands lab seeks a highly motivated Ph.D. student interested in speciation. The student would work initially on an NSF-funded project using a marine invertebrate to test how the absence of differentiated sex chromosomes impacts the genetics of speciation. The remainder of the student's dissertation research is flexible and dependent on the student's specific interests. Most new Ph.D. students matriculate in late August, but the chosen student could begin as an RA as early as May 2009.

Experience with quantitative genetics or molecular techniques is desirable but by no means required. For more information on our general research interests please see the lab website at <http://college.usc.edu/labs/edmands/home/index.cfm>. For more specific information about the position and project please contact Suzanne Edmands (sedmands@usc.edu).

Funding, tuition remission and benefits are guaranteed for at least 5 years through a combination of RAships, TAships and fellowships. For full consideration for all university fellowships, applications are due December 1 through the following website: <http://college.usc.edu/bisc/marine/graduate/admissions.cfm> – Suzanne Edmands Associate Professor Department of Biological Sciences 3616 Trousdale Parkway, AHF 316 University of Southern California Los Angeles, CA 90089 (213)740-5548 <http://college.usc.edu/labs/edmands/home/index.cfm> edmandss@gmail.com

UZurich PlantHybridization 2

Ph.D. POSITION IN PLANT HYBRIDIZATION

(Second announcement: revised deadline)

DESCRIPTION: A Ph.D. position is available to join an on-going study on hybridization between distylous

species of primroses (*Primula* L.). The study focuses on how the variation of floral traits typical of distyly affects the formation and establishment of hybrids. The funded position is available for a minimum of three years, extendable to a fourth year upon satisfactory performance.

DEADLINE: October 30, 2008. Please, note that applications will be reviewed until a suitable candidate is selected.

STARTING DATE: January 1, 2009 at the earliest (negotiable, if necessary).

REQUIREMENTS: Bachelor's or, preferably, Master's degree in biology. Experience in the use and development of molecular markers and/or pollination biology strongly preferred. Good quantitative skills necessary. Working language: English (speaking, reading, writing).

LOCATION: The Ph.D. position is available at the Institute of Systematic Botany of the University of Zurich, Switzerland. Zurich is located on a lake within striking distance from the Alps, easily reachable by public transportation.

HOW TO APPLY: Send in the following documents by post or email: 1) a two-page letter explaining why you are interested in this position and why you are qualified for it; 2) your University transcripts; 3) your Curriculum Vitae; 4) the names and email addresses of three people who can comment on your qualifications for the position. - If you apply by email, please (a) include the title "Ph.D. position Zurich 08" in the Subject line; (b) send in your application as a single pdf file.

CONTACT: Prof. Elena Conti, University of Zuerich, Institute for Systematic Botany, Zollikerstrasse 107, 8008 Zuerich, SWITZERLAND

Ph: 0041 44 634 8424; Fax: 0041 44 634 84 03

email: ContiElena@access.unizh.ch

<http://www.systbot.unizh.ch/institut/personen/-person.php?l=3De&id=3D24> Prof. Elena Conti, Ph.D. University of Zuerich, Institute for Systematic Botany Zollikerstrasse 107, 8008 Zuerich, SWITZERLAND Ph: 0041 44 634 8424 Fax: 0041 44 634 84 03 email: ContiElena@access.unizh.ch <http://www.systbot.unizh.ch/-institut/personen/person.php?l=3Dd&id=3D24> <http://www.systbot.unizh.ch/mediterranean/-index.htm> ContiElena@access.unizh.ch

VanderbiltU EvolutionaryBiol

GRADUATE STUDIES IN ECOLOGY AND EVOLUTION AT VANDERBILT UNIVERSITY

Dear colleagues and prospective students,

The Department of Biological Sciences at Vanderbilt University seeks interested and highly motivated graduate students to join a group of laboratories with complementary research interests focusing on ecological and genetic mechanisms of evolutionary diversification. Ongoing research investigates all stages of diversification (population differentiation, speciation, evolutionary radiation) and various fundamental processes (adaptation, ecological specialization, symbiosis, social interactions, origins of multicellularity, genome evolution) in animal, plant, and microbial systems.

Please visit <http://www.vanderbilt.edu/evolution> to find out more about our research group. Online application to the graduate program is FREE and can be filed electronically at <http://sitemason.vanderbilt.edu/biosci/grad/application>. The deadline for submission of applications is JANUARY 15TH.

Our E&E group shares one floor of a modern building, complete with our own DNA sequencing/genotyping facility, numerous environmentally controlled rooms, and an adjoining state-of-the-art greenhouse. Vanderbilt researchers enjoy the participation of excellent undergraduates, the resources of a thriving medical center and full access to a supercomputing facility. Our beautiful campus is located in the heart of Nashville, a friendly and inexpensive city situated amidst the lush rolling hills of biologically diverse middle Tennessee. Graduate students receive generous stipends (~\$27,000/year) and are trained in a highly interactive scientific community.

The research interests of our Ecology & Evolution faculty are listed below. Please note that all faculty are actively recruiting new graduate students:

Patrick Abbot (patrick.abbot@vanderbilt.edu) – social evolution, symbioses, molecular evolutionary genetics in insects and microbes

Seth Bordenstein (s.bordenstein@vanderbilt.edu) – evolutionary genomics of animal-microbe interactions, microbial ecology of bacteriophage and intracellular bacteria, infectious speciation, Wolbachia

Dan Funk (daniel.j.funk@vanderbilt.edu) – speciation, ecological specialization, phylogeny, evolutionary genetics, herbivorous insect biology

Dave McCauley (david.e.mccauley@vanderbilt.edu) – population biology, population structure, local adaptation in plants and insects

Antonis Rokas (antonis.rokas@vanderbilt.edu) – phylogenetics, molecular evolution, comparative genomics, origins of multicellularity, evolution of genetic pathways in fungi

For further information on research and graduate study at Vanderbilt, please consult our departmental web page at <http://sitemason.vanderbilt.edu/biosci>. Specific questions can be directed to any of the above faculty.

daniel.j.funk@vanderbilt.edu

daniel.j.funk@vanderbilt.edu

vTI Germany PopulationGenetics

PhD Student Position - Population Genetics

A PhD student position in Population Genetics / Evolutionary Ecology is available at the Institute of Fisheries Ecology at the Johann Heinrich von Thünen-Institute (vTI), the Federal Institute of Rural Areas, Forestry and Fisheries in Hamburg, Germany in the laboratory of Reinhold Hanel. The student will join a collaborative research group studying genetic diversity, speciation and the evolution of key-innovations in Antarctic notothenioids.

The project includes population genetic and molecular phylogenetic analyses on species of Antarctic fish, primarily across the Scotia Ridge by investigating mitochondrial control region sequences, microsatellite markers, and sequences of the nuclear hemoglobine and antifreeze glycoprotein genes. The candidate should be willing to join at least one Antarctic survey as well as research visits to partner institutions.

The PhD student will receive a salary according to the German pay scale (E13/2 TV-L). Applicants should have a master's degree or equivalent in evolutionary biology or a related field. In addition, laboratory experience in molecular biology and/or genetics is desired. Interested candidates should send a CV, statement of interest, and contact information of two potential referees to:

Prof. Dr. Reinhold Hanel Director of Institute Johann
Heinrich von Thünen-Institut (vTI) Federal Research
Institute for Rural Areas, Forestry and Fisheries

Institute of Fisheries Ecology

Palmaille 9 22767 Hamburg Tel.: 040-38905-290 Fax:
040-38905-261 Email: reinhold.hanel@vti.bund.de

Applications will be reviewed beginning November 14,
2008. The position is expected to start on February 1,
2009.

The vTI is an Equal Opportunity/Affirmative Action
Employer and has an affirmative action policy for the
disabled.

Reinhold Hanel <reinhold.hanel@vti.bund.de>

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AdelphiU EvolutionaryEcol

Title: Tenure-track Assistant Professor Position (Evo-
lutionary Ecology)

Text:

Evolutionary ecologists are especially welcome to apply

for the following job.

As seen in the 10 October issue of Science: ADELPHI UNIVERSITY www.adelphi.edu ASSISTANT PROFESSOR TENURE-TRACK BIOLOGY

Adelphi University invites applications for a tenure-track position in Biology to begin August, 2009. Teaching responsibilities will include participation in introductory biology and advanced courses in the candidate's specialty. We are especially interested in candidates who work on the organismal level with marine/coastal systems (preferably invertebrates, algae, and/or plants) and whose research involves a significant amount of field work. A Ph.D is required; post-doctoral experience preferred. The successful applicant will have excellent potential as a teacher, significant research accomplishments, and the potential to develop a fundable independent research program involving undergraduates and master's students. We are committed to diversity and encourage applications from members of underrepresented groups.

Deadline for Applications: November 10, 2008

Adelphi is a private university with the spirit of a liberal arts college, located in suburban Long Island within easy reach of New York City. Our faculty carry out the challenging and fulfilling combination of teaching and research.

For more information about the department, visit www.academics.adelphi.edu/artsci/bio/ Apply online at: www.adelphi.edu/positions/faculty Matthias Foellmer Assistant Professor Department of Biology, Adelphi University 1 South Ave., Garden City, New York, 11530, USA

Matthias Foellmer <FOELLMER@adelphi.edu>

AppalachianStateU EvolutionaryAnthropology

Please post this notice and distribute widely.

The Department of Anthropology at Appalachian State University invites applications for a one year, full time, renewable, non-tenure track appointment in Biological Anthropology. The position will begin in August 2009 and carries full benefits. PhD in anthropology preferred, but ABD will be considered. Specialization is open, but preference will be given to candidates whose research has a strong evolutionary and/or biocultural

focus. The successful applicant will teach in the university's new general education program and also develop courses in his/her own specialty in the department's new Biological Anthropology concentration (<http://www.appalachianbioanth.org>).

Applicants must provide (1) a letter of application, which includes research and teaching statements; (2) a CV with names, addresses, and phone numbers of three references; (3) teaching evaluations; and (4) a recent writing sample. Applications should be sent to Dr. Gregory Reck, Chair, Department of Anthropology, Boone, North Carolina, 28608 or electronically to reckgg@appstate.edu. Review of applications will begin immediately and continue until the position is filled.

Appalachian State University is one of the 16 members of the University of North Carolina system, located near the Blue Ridge Parkway, 200 miles from Chapel Hill. The Department of Anthropology has approximately 150 majors and campus enrollment is 16,000. ASU is nationally recognized and ranked 7th in the Southeast for Masters level universities. Our website is <http://www.appstate.edu>. ASU is an equal opportunity/affirmative action employer. Minorities and women are encouraged to apply.

Gwen Robbins, Ph.D. Assistant Professor Department of Anthropology 401 Sanford Hall Appalachian State University Office: (828) 262-7505 Fax: (828) 262-2982 <http://www.appstate.edu/~Robbinsgm> Gwen Robbins <grobbs321@yahoo.com>

BostonU MarineEvolutionaryBiol

The Biology Department at Boston University (www.bu.edu/biology) invites applications for a tenure-track appointment at the Assistant Professor level. We seek an evolutionary ecologist conducting research in nearshore marine systems at the population, community, and/or ecosystem levels. The successful candidate will also participate in the interdisciplinary Boston University Marine Program (www.bu.edu/bump). Responsibilities will include establishing an independent research program with extramural funding and active participation in undergraduate and graduate teaching.

Please submit a cover letter, curriculum vitae, and statement of research and teaching interests in a single electronic document. E-mail this document and three representative reprints to Dr. Michael Sorenson, Chair, Marine Ecology Search Committee, Department

of Biology, Boston University at biosrch@bu.edu. Also, please arrange for three letters of reference to be sent to the same email address. Review of applications will begin December 5, 2008.

Boston University is an equal opportunity/affirmative action employer.

Michael Sorenson Associate Professor Department of Biology Boston University 5 Cummington St. Boston, MA 02215

(617) 353-6983 FAX: (617) 353-6340

msoren@bu.edu msoren@bu.edu

CaliforniaAcademySci ComparativeGenomics

POSITION ANNOUNCEMENT: Center for Comparative Genomics Laboratory & Collections Coordinator at California Academy of Sciences

POSITION SUMMARY: Under the supervision of the Head of the Center for Comparative Genomics, the Laboratory & Collections Coordinator will manage the operation and general maintenance of the Center for Comparative Genomics, its activities and related equipment. The position also requires the management of the genomics cryocollection. He/she will supervise users of the core molecular systematics laboratory. The laboratories are used by undergraduate, advanced degree students and established researchers conducting research various scientific disciplines.

ESSENTIAL DUTIES AND RESPONSIBILITIES: - Oversee operation and daily maintenance of the ABI 3130xl genetic analyzer - Liaise with ABI to maintain the ABI 3130xl genetic analyzer - Oversee equipment service contracts and general maintenance of the lab - Oversee ordering, restocking of supplies and preparation of invoices - Manage and oversee purchasing. - Bill in house and visiting researchers for reagents and consumables - Provide orientation to the CCG and basic training to new users - Pick up deliveries from the mailroom and store appropriately - Hazardous Materials and Health and Safety monitor - Maintain stock solutions and current MSDS database for lab - Attend Hazardous Materials meetings and Health and Safety meetings for the lab - Attend lab meetings and serve on governance committee for lab - Maintain and update existing protocols - Monitor lab usage and record for an annual report - Other duties of a similar scope

and nature as otherwise assigned - Follow all Academy safety regulations - Maintain frozen genomics collection and database - Other duties assigned

QUALIFICATIONS: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE: - Minimum of a Bachelor's degree in Biology or related field of study. Prefer Masters degree or higher or extended lab management experience. - General experience with PCR and DNA sequencing. - Experience with automated sequencers, preferably with an ABI 3130xl genetic analyzer. - Experience with shotgun sequencing and clone library management desired.

KNOWLEDGE, SKILLS AND ABILITIES: - Excellent organizational skills - Excellent verbal and written communication skills - Ability to work as a member of a team - Cross platform computer skills (Windows, MacOS, UNIX) - Experience with molecular applications (Sequencher, PAUP, MrBayes, Clustal, etc) - Excellent database and spreadsheet experience - Hands on experience with modern molecular techniques.

LANGUAGE SKILLS: Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to speak effectively before groups or individuals.

PHYSICAL DEMANDS & WORK ENVIRONMENT: The physical demands and work environment described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee is frequently required to stand, sit, walk, and reach with hands and arms, and talk or hear. Must be able to perform repetitive motions 15% of the time. Must be able to lift 30 lbs. The physical demands are consistent with normal laboratory procedures. Employees should be able to pipette, work with bench top equipment, and must occasionally lift and/or move up to 30 pounds.

TO APPLY: Go to <http://calacademy.snaphire.com/> and submit cover letter and curriculum vitae online. Applications will be considered as they are submitted; to receive full consideration send no later than November 7, 2008. Position available November 30, 2008.

NO PHONE CALLS PLEASE. DO NOT REPLY TO THIS EMAIL MESSAGE; APPLY ONLINE VIA THE LINK PROVIDED AND NOT TO THE SENDER OF THIS POSTING.

The California Academy of Sciences is an Equal Opportunity Employer and welcomes applications from individuals who will contribute to its diversity

pandich@calacademy.org

CaseWesternReserveU AmphibianEvolution

Advertisement: Research Assistant 2, Biology (Job 8238)

A position is available for a full-time research assistant to assist with field and laboratory research on the evolutionary ecology of amphibians in Dr. Michael Bernard's laboratory at Case Western Reserve University. More information about the lab is available at: <http://filer.case.edu/mfb38/lab/benardlab.html> Description of job duties: Perform research investigating evolution and population dynamics of amphibians and the ecological communities in which they exist. Essential functions include: Conduct laboratory and mesocosm experiments investigating the relationship between amphibians and their predators; Participate in care of the laboratory amphibian colony; Assist with sampling wetlands in Ohio and Michigan to assess the abundance of amphibians, insects, and fish inhabiting wetland communities (Involves work outdoors carrying nets and heavy sampling equipment); Help construct and maintain outdoor field enclosures and mesocosms; Identify and measure preserved specimens of amphibians, fish and insects; Collect and analyze data from field samples, digital photographs, and preserved specimens; Train new staff and students in data collection and animal care; May assist in developing improved techniques, projection methods or procedures.

Requirements: Experience – 1 to 3 years of experience conducting ecological or evolutionary research using amphibians, aquatic insects, or fish. Ideally, this experience should include work with live animals in the field, live animals in the laboratory, and preserved specimens. Education/licensing – Minimum requirement of a bachelor's degree in Biology, Ecology and Evolution, Conservation Biology, or related field. Valid driver's license required. Essential skills – Has knowl-

edge of the basic ecology of species found in wetland communities, including amphibians, invertebrates and fish. Has knowledge of basic techniques used to sample amphibians, aquatic invertebrates, and fish. This includes collection, preservation, and identification of specimens. Has knowledge of basic animal-care procedures to maintain captive colony of amphibians. Relies on instructions and pre-established guidelines to perform the functions of the job. Technical skills – Ability to sample amphibians, aquatic invertebrates and fish in wetlands. Ability to preserve specimens and to use dissecting scope to identify specimens. Ability to use basic spreadsheet or statistical software on a computer.

Case offers a flexible benefits package including tuition waiver for employees and dependents. To Apply: respond in confidence, including salary history, cover letter, resume, three professional references and job code #8238 (email strongly encouraged): CASE WESTERN RESERVE UNIVERSITY, Human Resources Dept., 10900 Euclid Ave., Crawford Hall, Cleve., OH.44106-7047, Fax: 216 368 4678,

E-mail: gmsearch@case.edu (word.doc)

<http://www.cwru.edu>.

World Class Diversity

Honored to be recognized as one of the 99 Great Workplaces for Top Talent in Northeast Ohio (2004-2007)

michael.benard@case.edu michael.benard@case.edu

CornellU CellularSystemsBiology

Cellular Systems Biology (job #09771) Assistant or Associate Professor

A faculty position is available at the assistant/associate professor level in the areas of computational cell biology and/or cellular systems biology, ideally with direct applications to experimental analysis. The selected candidate will be jointly affiliated with the Department of Biological Statistics and computational Biology (BSCB) and the Weill Institute for Cell and Molecular Biology, and must have interests and expertise consistent with both appointments. Applicants should have experience addressing fundamental questions in molecular or cell biology using rigorous, quantitative methods; should integrate bioinformatic and experimental components in their research. Training in both cell/molecular biology and a quantitative field such as

statistics, computer science, or applied mathematics is ideal, but not required. Priority will be given to applicants who are using model systems and joint experimental/computational approaches to elucidate the molecular basis of cellular function, development, and evolution. The Weill Institute for Cell and Molecular Biology (<http://www.icmb.cornell.edu>) will initially consist of 12 faculty members housed in a recently completed \$160M building (Weill Hall). Applicants should submit a curriculum vitae, a research plan (2-3 pages), and a statement of teaching interests, by emailing a single PDF file to bscb_search@cornell.edu (please limit to 15MB). Applicants should also arrange for three letters of recommendation to be submitted to the same email address. Questions can be addressed to Andrew Clark (ac347@cornell.edu) or Scott Emr (sde26@cornell.edu). Applications will be reviewed beginning November 1, 2008. A fuller version of this position advertisement appeared in the September 12, 2008 issue of Science.

Note the following additional searches in related area, as described in the full page ad in Science published Oct 10, 2008, listed below in full. If you wish to apply for multiple positions, you must submit an application and letters to each as described below. It's an exciting and interactive group, and we look forward to having outstanding individuals join us.

Thanks, Chip Aquadro and Andy Clark

Full ad that appeared in Science on Oct 10, 2008

Five Tenure-Track Faculty Positions in Gene Regulation, Population/Comparative Genomics, Computational Biology, and Cellular Systems Biology

Cornell University announces tenure-track faculty searches in the areas of genomics of gene regulation, population and comparative genomics, computational biology, and cellular systems biology. These new positions build on the university's current strengths, and new faculty will have an opportunity to be associated with several new initiatives, including a new university-wide Center for Comparative and Population Genomics, co-directed by Andrew Clark and Charles Aquadro, and the Weill Institute for Cell and Molecular Biology, directed by Scott Emr. For general information about the life sciences at Cornell, please visit <http://www.cornell.edu/lifesciences/>. Genomic Approaches to the Study of Gene Regulation (job #09798) Assistant or Associate Professor

The Department of Molecular Biology and Genetics, Cornell University, invites applications for a tenure-track faculty position at the Assistant or Associate Professor level. We seek an individual using genomic approaches to study gene regulation, and who would

synergize existing departmental strengths in genetics, comparative and population genomics, development, gene regulation, chromatin structure and replication. The ideal candidate will integrate both experimental and bioinformatic approaches. Individuals seeking an excellent integration of experimental, computational and comparative approaches using several model organisms will find Cornell a particularly rich environment in which to work (see, for example: www.mbg.cornell.edu, www.bsbc.cornell.edu, and www.icmb.cornell.edu). The position includes teaching of undergraduate and graduate students. An advanced degree (Ph.D., M.D., or equivalent) is required and postgraduate training is highly desirable. Candidates should submit electronically a CV, a 2-4 page research statement, a 1 page teaching statement, and copies of two papers, together as a single PDF file (max 5MB) to RLL2@cornell.edu and arrange for three letters of recommendation to be sent electronically to the same e-mail address. Questions can be addressed to Charles Aquadro or John Lis, co-chairs of the search committee (CFA1@cornell.edu or JTL10@cornell.edu). Application review begins on November 30, 2008.

Population and/or Comparative Genomics (job #09770) Assistant Professor

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CornellU ComputationalBiology-Bioinformatics

Computational Biology and Bioinformatics Assistant, Associate or Full Professor

Applications are invited for a tenure-track position in Computational Biology in the Computer Science department of Cornell University. Multiple positions are available, and depending on experience positions can be at the assistant, associate, or full professor level. Applicants must possess a Ph.D. in computer science or a Ph.D. in a mathematical, biological or physical science with enough expertise in computer science to fit within a CS department. The department requires demonstrated research abilities at the highest level as well as outstanding teaching ability and leadership qualities.

Outstanding applicants in all areas of computational biology will be considered. We are especially interested in individuals developing novel algorithms and statistical approaches for research in areas including evolutionary, comparative, and population genetics and genomics; applications of new high-throughput sequencing and measurement technologies; the role of networks in biological systems; and analysis of dynamical behavior at the sub-cellular and cellular levels. To ensure full consideration, applications should be received by December 1, 2008, but will be accepted until all positions are filled. Applicants should submit a curriculum vitae and brief statements of research and teaching interests through the web at <http://www.cis.cornell.edu/apply>, and arrange to have at least three reference letters uploaded on the Web or sent to: Human Resources Office, Faculty Search, Department of Computer Science, 4130 Upson Hall, Cornell University, Ithaca, NY 14853-7501, or via email to freccruit@cs.cornell.edu.

Note the following additional searches in related area, as described in the full page ad in Science published Oct 10, 2008, listed below in full. If you wish to apply for multiple positions, you must submit an application and letters to each as described below. It's an exciting and interactive group, and we look forward to having outstanding individuals join us.

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Population and/or Comparative Genomics (job #09770) Assistant Professor

The Department of Biological Statistics and Computational Biology (BSCB) in the College of Agriculture and Life Sciences at Cornell University

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CornellU GenomicsofGeneExpression

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Population and/or Comparative Genomics (job #09770) Assistant Professor

The Department of Biological Statistics and Computational Biology (BSCB) in the College of Agriculture and Life Sciences at Cornell University seeks candidates for a tenure-track position at the Assistant Professor level. We expect that the successful applicant will focus on developing

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CornellU PopulationComparativeGenomics

Population and/or Comparative Genomics (job #09770) Assistant Professor Cornell University, Ithaca, NY

The Department of Biological Statistics and Computational Biology (BSCB) in the College of Agriculture and Life Sciences at Cornell University seeks candidates for

a tenure-track position at the Assistant Professor level. We expect that the successful applicant will focus on developing and applying statistically rigorous methods to large-scale data analysis in population and/or comparative genomics, and will play a central role in the departments program in research and teaching. BSCB is dedicated to the application of statistical, computational, and mathematical approaches to problems in modern biology (<http://www.bscb.cornell.edu>). The department has broad strengths in statistics and computational biology, including comparative, evolutionary, quantitative, and population genomics, Bayesian and computationally intensive statistics, and machine learning. The department occupies a key position at the interface between the quantitative and biological sciences at Cornell and offers rich opportunities for collaborations with other investigators on the Ithaca campus, and at the Weill Cornell Medical College in New York City. Some of the research areas with particularly high potential for collaboration include: human genetics, agricultural genomics, canine genomics and other aspects of veterinary medicine, and evolutionary genomics of diverse organisms. Applicants should submit a cover letter, research statement (2-3 pages), statement of teaching interests (1-2 pages), and a curriculum vitae as well as 3-5 publications of particular relevance by emailing a single PDF file to bscb_search2@cornell.edu (please limit to 15MB). Applicants should also arrange for three letters of recommendation to be submitted directly to the same email address. Questions can be directed to Charles Aquadro, chair of the search committee, at CFA1@cornell.edu. Applications will be reviewed beginning November 15, 2008.

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EastCarolinaU EvoDevo

Hi,

We would be very interested to have Evo-Devo folks apply to the positions listed below, to appear shortly in Science.

Thanks, Jeff

Department of Biology ' Two Assistant/Associate Professors

The Department of Biology at East Carolina University, the third largest campus in the North Carolina University system, seeks to enhance an emerging strength in development by inviting applications for 2 full time tenure track Developmental Biologists at the rank of Assistant or Associate Professor beginning August 17, 2009. Preference will be given to applicants with additional expertise in one or more of the following areas: Neurobiology, Cell Biology, Human Anatomy, Comparative Anatomy, Evolution and Histology. Qualified applicants will have a Ph.D. and postdoctoral research experience. The successful candidate will establish a vigorous, well-funded research program, contribute to undergraduate and graduate teaching, and mentor students in the M.S. and Ph.D. programs. Appropriate service to the university, community and profession is expected. Please visit our website at <http://www.ecu.edu/biology> for more information on the Department of Biology.

Applicants must submit a cover letter, curriculum vitae, statements of research interests and teaching experience/philosophy, and the names and contact information for three references online at www.jobs.ecu.edu < <http://www.jobs.ecu.edu/> > . For further information, contact Dr. Tony Capehart, Chair - Developmental Biologists Search Committee, Department of Biology, East Carolina University, Greenville, NC 27858. Review of applications will begin October 27, 2008. East Carolina University is an Equal Opportunity/Affirmative Action Employer that accommodates individuals with disabilities. Individuals requesting a disability accommodation should call the ECU Office of Disability Support services at 252-737-1016 (Voice/TTY/Relay). Proper documentation of identity and employment are required at the time of employment. Official transcript required upon employment.

Jeffrey S. McKinnon, Chair Dep. of Biology, N108 Howell Science Complex East Carolina University Greenville, NC 27858-4353 Phone 252-328-5258 mckinnonj@ecu.edu

MCKINNONJ <mckinnonj@ecu.edu>

Finland GenomicModeling

Hi all,

Please find below three permanent job positions that may be of interest to the evol dir community.

1. + MTT Agrifood Research Finland has a vacancy for

Principal Research Scientist

with permanent appointment leading and generating research projects addressing use of genomic tools for farm animal populations. The research will encompass the utilisation of new high-throughput DNA marker sets for improved knowledge and management of genetic variation and development of selection programmes. It will be part of the new research programmes (e.g. Sustainable use of genetic resources) at MTT and will exploit the close collaboration with animal biometrical genetics and genomics at MTT.

The successful candidate will join in the Genetic Diversity group of Biotechnology and Food Research at MTT where he/she also participates in ongoing research projects, scientific writing, maintaining and creating relationships with national and international research and industry partners and initiating and conveying ideas on new research projects.

The Genetic Diversity group conducts research tasks associated with the genetic diversity of farm animals and plants, and coordinates the national programmes for these sectors in Finland. The research group consists of six researchers and has over the years been hosting several international visitors and post-doc scientists. It is carrying out highly recognised research on quantifying the genetic variation of farm animal populations with molecular genetic tools. The group is a regular partner in EU research programmes on assessment, management and sustainable utilisation of genetic variation. MTT experts are also taking part in international governmental organisations on genetic resources. For further information see www.mtt.fi/english/ or contact Professor Asko Maki-Tanila (e-mail Asko.Maki-Tanila@mtt.fi; phone +358 3 4188 3601 or +358 40 755 2339).

The successful candidate should have PhD in animal breeding and genetics or in a closely related field and scientific competence on high international level within population genetics and genomics. In the appointment, importance is attached to ability to attract external funding and generate international collaboration and to skills of leading research projects.

Please, send your application, addressed to 'Eeva-Liisa Ryhanen, Head of Biotechnology and Food Research' before 7 October to: MTT Agrifood Research Finland,

Kirjaamo, 31600 Jokioinen, Finland or to e-mail: kirjaamo@mtt.fi. MTT applies individual salary negotiations.

MTT Agrifood Research Finland is a research institute acting under the Ministry of Agriculture and Forestry.

2. + MTT Agrifood Research Finland has a vacancy for

Principal Research Scientist

with a permanent position as a leader of research projects in modelling genomic data and developing methods to utilize genomic data for improving quality of farm animal products. Research will target on meat quality, health, fertility, and feed efficiency traits of pigs. Developed methods will be applied to other farm animal species as well. The research projects are part of MTT's new research program "Well-being from diet" and research will be conducted in close cooperation with MTT's research groups working on animal genomics, animal production, and on food research with a focus in developing nutritional recommendations for humans.

The successful candidate will join in the Biometrical Genetics group of Biotechnology and Food Research at MTT where she/he also participates in ongoing research projects, in scientific writing, and in maintaining and creating of relationships with national and international research and industry partners.

The Biometrical Genetics group is an internationally recognized group developing breeding schemes for farm animals, and methods for breeding value estimation, and studying quantitative genetics of production, quality and health traits in animals. The group has close intellectual ties to top-quality research groups in Europe, North America and Australia and to national and international breeding organisations. The group consists of 12 researchers. For further information see www.mtt.fi/english/ or contact research manager Dr. Esa Mäntysaari (email: Esa.Mantysaari@mtt.fi; mobile +358 40 510 6013) or group leader Dr. Martin Lidauer (email: Martin.Lidauer@mtt.fi; phone: +358-3-41883604).

The successful candidate should have a postgraduate degree in animal breeding and genetics or in bioinformatics or statistics. Experiences with statistical methods (e.g. Bayesian analysis) applied to genotypic data are desired. A comprehensive understanding of farm animal biology is beneficial.

Please send your application, addressed to "Eeva-Liisa Ryhänen, Head of Biotechnology and Food Research", before 14th of October 2008 to: MTT

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FloridaInternationalU PopulationGenetics

The Department of Biological Sciences at Florida International University is seeking a scientist for a faculty position (open rank) in population genetics. Our department has a strong multidisciplinary emphasis; we are looking for a colleague to strengthen our programs in evolutionary biology, ecology, and molecular and cellular biology. We seek applicants with a Ph.D. and an exceptional research record in population genetic studies. All areas of empirical or theoretical population genetics will be considered. Candidates will contribute to our undergraduate and graduate teaching programs in population genetics and general genetics. Interested applicants should send their CV, including a bibliography of published work, a brief description of research accomplishments and objectives, a statement of teaching interests, selected reprints, and the names, addresses, and contact information for at least three references to: Tim Collins, Chair, Population Genetics Search, Dept. Biological Sciences, FIU, 11200 SW 8th St., Miami, Florida 33199 (collinst@fiu.edu). Review of applications will begin December 1, 2008, and continue until the position is filled. Florida International University is an Equal Opportunity Educator and Employer.

Tim Collins, Dept. of Biological Sciences, Florida International University, HLS 419D, University Park, Miami, FL 33199 USA, CollinsT@FIU.EDU, FAX (305)348-1986, Phone: Ofc.(305)348-1730, lab -3110, Express mail address: 112th Ave. & SW 8 St., OE Bldg., Rm. 167

Tim Collins <Collinst@fiu.edu>

GettysburgCollege PopulationBiol

ORGANISMAL/POPULATION BIOLOGIST

Gettysburg College invites applications for a two-year visiting assistant professor position in the Department of Biology beginning August, 2009, with possibility of a two-year renewal. Ph.D. in organismal (preferably vertebrate) and/or population biology, a commitment to teaching in the liberal arts tradition, and a research program that can involve undergraduates are essential. The successful candidate will teach in our core introductory sequence and would offer upper division courses in area of specialization (e.g., vertebrate zoology). Potential areas of research expertise are open.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Washington/Baltimore metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of over 2,600 students. Gettysburg College celebrates diversity and welcomes applications from members of any group that has been historically underrepresented in the American academy. The College assures equal employment opportunity and prohibits discrimination on the basis of race, color, national origin, gender, religion, sexual orientation, age, and disability.

Send by post (no electronic applications) curriculum vitae and statement of teaching and research goals and have three letters of reference (at least one of which can speak to the candidate's teaching effectiveness) sent to: Dr. Véronique A. Delesalle, Orgo/Pop Bio Search, Biology Department, Box 392, Gettysburg College, Gettysburg, PA 17325. Review of applications will begin December 15th, 2008, and will continue until a successful candidate is found.

Veronique A. Delesalle Professor of Biology Chair of the Biology Department Box 392 Gettysburg College Gettysburg, PA 17325

Tel: 717-337-6153 fax: 717-337-6157

delesall@gettysburg.edu delesall@gettysburg.edu

HarvardU HumanEvolution

The Biological Anthropology Wing of the Anthropology Department at Harvard University is seeking to make a full-time tenure-track appointment at the assistant or untenured associate professor level in the field of non-human primate behavior, and seeks candidates who will complement the current strengths of the program. We are particularly interested in candi-

dates whose interests in behavior extend to cognitive evolution, ecology, or physiology, and whose primate behavioral studies are explicitly related to human evolution. A strong doctoral record is required and the Department seeks candidates with exceptional promise as scholars and teachers to offer courses at the undergraduate and graduate levels. The Biological Anthropology Wing administers two large and successful undergraduate concentrations, Human Evolutionary Biology and Biological Anthropology, hence excellence in undergraduate teaching is a priority. Graduate education in the wing stresses integration of laboratory and field research and the cooperative training and mentoring of Ph.D. candidates. Harvard University is an Equal Opportunity/Affirmative Action employer, and applications from women and minorities are particularly encouraged. The appointment is expected to begin on July 1, 2009. Interested candidates should send a CV, example publications, teaching evaluations if available, and the names and addresses of three potential references, by December 1, 2008 to: Prof. Richard Wrangham, Biological Anthropology Search Committee Chair, Department of Anthropology, Peabody Museum, Harvard University, Cambridge, MA 02138 USA, or by email to mcourtney@fas.harvard.edu.

Megan Courtney <mcourtney@fas.harvard.edu>

HarvardU OneYear HrdyFellowship

The Sarah and Daniel Hrdy Visiting Fellowship in Conservation Biology at Harvard University

The Department of Organismic and Evolutionary Biology invites both nominations and direct applications for the Hrdy Visiting Fellowship in Conservation Biology for the academic year 2009-2010. The Hrdy Visiting Fellowship is available either at the senior faculty level or at the junior (i.e., postdoctoral) level for one or two semesters. Duties will include teaching one course and/or giving lectures in conservation biology, as well as research and collaboration with members of the Harvard community. The Fellowship includes a modest travel stipend. Applicants should contact a faculty sponsor(s), with whom they will collaborate, before applying.

Applicants should submit the following application materials online to http://www.lsddiv.harvard.edu/oeb/-academic_search : a cover letter with statement of intent, a curriculum vitae, representative publications,

and arrange for three references to be uploaded to the website. Letters of nomination from third parties are also welcome and may be sent via e-mail to Jonathan Losos, Professor of Organismic and Evolutionary Biology c/o Katie Parodi kparodi@oeb.harvard.edu. Review of applications will begin on December 1, 2008.

Further information about OEB is available at www.oeb.harvard.edu; Information about the Hrdy Visiting Fellowship can be found at www.oeb.harvard.edu/employment/hrdy.html Harvard University is an Affirmative Action/Equal Opportunity Employer.

katieparodi@gmail.com

HarvardU SystemsBiology

Dear Brian, It would be great if you could post the job advertisement for our Systems Biology assistant professor positions on the EVOLDIR website. While systems biology may usually be considered somewhat removed from evolution, this year our Center at the FAS Center for Systems Biology - is particularly interested in candidates who work in the field of microbial ecology and evolution. Attached is our ad as it ran in Nature a few weeks ago. This ad describes several systems biology searches at Harvard, only one of which ours - has an evolutionary focus. If you just want to post this position, here is an excerpt of the relevant part (otherwise the full text is below my signature):

Assistant Professorships in Systems Biology at Harvard University

The Harvard FAS Center for Systems Biology (<http://sysbio.harvard.edu/csb/>) has two positions at the rank of assistant professor (tenure track) available and is particularly interested to hire in the field of microbial evolution & ecology and the field of physical properties of biological systems, but will consider outstanding candidates in other fields. Each new faculty member will hold an academic appointment in a participating department, such as Molecular and Cellular Biology or Organismic and Evolutionary Biology. Access to Harvard facilities including the Center's own Core Resource, the Center for Nanoscale Systems, the Center for Brain Science, and the Broad Institute will provide opportunities for collaborative research and technology development.

Applications are due by December 1, 2008. Please submit a curriculum vitae, research proposal (5 pages), summary of previous research accomplishments (2 pages), and PDFs of 3 publications to <http://www.lsddiv.harvard.edu/csb/facultysearch/> < <http://www.lsddiv.harvard.edu/csb/facultysearch/> > . All files must be submitted electronically in PDF or Word format. During the application process you will be asked to give the e-mail addresses of at least three colleagues who have agreed to write letters of recommendation for you. Applications from, or nominations of, women and minority candidates are encouraged. Harvard University is an affirmative action/equal opportunity employer.

Bodo Stern, Ph.D. Director of Research Affairs
Harvard University FAS Center for Systems Biology
Northwest Building, Room 415 52 Oxford Street
Cambridge MA 02138 phone: (617) 496 9278
fax: (617) 495 2196 bstern@cgr.harvard.edu <http://sysbio.harvard.edu/csb/> Assistant Professorships in Systems Biology at Harvard University

Harvard University has a large and growing systems biology community composed of faculty, fellows, and trainees, housed at several locations across the Boston area. This year, faculty positions are available in four locations. Applications for positions at the rank of assistant professor (tenure track) are especially encouraged, but exceptional candidates for associate professor (untenured) positions may also be considered.

1. The FAS Center for Systems Biology (<http://sysbio.harvard.edu/csb/>) on the Cambridge campus has two positions available and is particularly interested to hire in the field of microbial evolution & ecology and the field of physical properties of biological systems, but will consider outstanding candidates in other fields. Each new faculty member will hold an academic appointment in a participating department, such as Molecular and Cellular Biology or Organismic and Evolutionary Biology. Access to Harvard facilities including the Center's own Core Resource, the Center for Nanoscale Systems, the Center for Brain Science, and the Broad Institute will provide opportunities for collaborative research and technology development.
2. The MGH Center for Systems Biology (<http://csb.mgh.harvard.edu/>) has one position available. This position is a joint appointment with the Department of Systems Biology at Harvard Medical School. The candidate will work in close proximity to MD and PhD scientists with strong research programs in human disease. He/she will have the opportunity to establish collaborations with MGH clinicians, and with researchers and technology programs at the Broad Institute. Areas of

special interest include: how disease-causing mutations perturb cellular networks to yield disease phenotypes; identification of network nodes that may be novel drug targets; epigenetics and disease; gene-environment interactions; using computational methods, quantitation, statistics, modeling and analysis of large data sets to

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InstZoology London ResTech SalmonGenetics

INSTITUTE OF ZOOLOGY ZOOLOGICAL SOCIETY OF LONDON

RESEARCH TECHNICIAN POST MOLECULAR ECOLOGY Starting salary £20,524 (including London Weighting)

Applications are invited for a post as research technician on a NERC-funded project to investigate gene expression of odorant receptor genes in Atlantic salmon taken from different populations at different life stages. Experience in molecular biology techniques, particularly RNA techniques and quantitative PCR is essential, a knowledge of ELISA assays desirable.

The post is for 12 months and is available from 1st February 2009.

For informal enquiries contact: Dr W.C. Jordan (bill.jordan@ioz.ac.uk Tel: 020 7449 6631) or Dr K.L. Ciborowski (kate.ciborowski@ioz.ac.uk Tel: 020 7449 6317).

Applications, with a current CV and names and full contact details of three referees, should be sent to Human Resources, Zoological Society of London, Regent's Park, London NW1 4RY, UK (email HR@zsl.org), from whom further details are available.

CLOSING DATE: 31st October 2008

Read about the Institute of Zoology on <http://www.zoo.cam.ac.uk/ioz/> and ZSL's work on <http://www.zsl.org>

REGISTERED CHARITY NO. 208728

INSTITUTE OF ZOOLOGY ZOOLOGICAL SOCIETY OF LONDON

RESEARCH TECHNICIAN POSTS CONSERVATION GENETICS AND MOLECULAR ECOLOGY

Further details

The successful applicant will work on a NERC-funded project to investigate the gene expression in a suite of odorant receptor genes in populations of Atlantic salmon.

Project Summary

Atlantic salmon are typically migratory. After a year or more of freshwater life, juvenile Atlantic salmon undergo the parr-smolt transformation (PST), a form of metamorphosis involving behavioural, anatomical and physiological changes necessary to survive the marine environment. Smolts migrate to the ocean for a period of feeding and growth before returning with a high degree of accuracy to their natal stream as adults to spawn. Returning fish are thought to use a variety of orientation mechanisms to accurately navigate from the open ocean back to the home streams within the complex structure of large rivers. However, olfaction and odour memory appear to be dominant mechanisms and there may be population-specific odours in addition to environmental cues that are important for homing. Odorant receptor genes encoding molecules that recognise and specifically bind to odours are likely to be important elements of these mechanisms.

Samples will be collected throughout the year from juveniles representing different populations which will be exposed to familiar and unfamiliar water sources (perhaps containing different specific odours). These juveniles have been raised in a hatchery in Scotland. We will extract RNA from the olfactory rosette and make first strand cDNA. We will then use quantitative real-time PCR to amplify the cDNA to assess the level of expression of a suite of odorant receptor genes in each sample.

Our aim is to test the general hypothesis that changes in expression of odorant receptor genes expressed in the olfactory epithelium affect retention of home stream memory in terms of odorant cues that juvenile salmonids are exposed to during periods of enhanced olfactory learning. We hypothesise that:

(a) populations differ in the suite of OR genes that they express, although they may possess a common suite. (b) there are changes in OR gene expression in individual Atlantic salmon during PST and other sensitive periods of the juvenile life-cycle. (c) temporal variation in expression of OR genes is associated with class of gene, with MOR genes expressed earlier in PST than VNR genes. (d) exposure to different sets of population-specific odours during sensitive periods

induces expression of different suites of OR genes

Job Description

The technician will work at the Institute of Zoology in Regent's Park, London, NW1, under the supervision of Dr Bill Jordan and Dr Kate Ciborowski. They will receive training (if required) and experience of RNA extraction, first strand cDNA synthesis, quantitative PCR techniques and ELISA assays.

Starting salary will be £20,524 inclusive of London weighting and the post will be for a fixed term of 12 months.

IOZ website: <http://www.zoo.cam.ac.uk/ioz/index.htm> ZSL website: <http://www.zsl.org/> Closing date: 31st October 2008

The Zoological Society of London is incorporated by Royal Charter Principal Office England. Company Number RC000749 Registered address: Regent's Park, London, England NW1 4RY Registered Charity in England and Wales no. 208728

Kate.Ciborowski@ioz.ac.uk
Kate.Ciborowski@ioz.ac.uk

IowaStateU SystemsBiology

Comparative, evolutionary approaches to understanding systems welcome.

IOWA STATE UNIVERSITY Where you can become your best.

SYSTEMS BIOLOGIST ASSISTANT PROFESSOR

The Department of Genetics, Development and Cell Biology (<http://www.gdcb.iastate.edu/>) invites applications for a tenure-track faculty position at the level of Assistant Professor. We seek highly qualified applicants from all backgrounds relevant to Systems Biology. Specific areas of interest include, but are not limited to: analysis of developmental, neural, metabolic or regulatory networks, using experimental and computational or modeling approaches. The successful candidate will be expected to establish and maintain a vigorous, independent, extramurally funded research program, and to participate in undergraduate and graduate teaching. Qualified candidates must have a Ph.D. or other terminal degree, and demonstrated potential for excellence in research and teaching. The Department is sensitive to the needs of dual-career applicants and is committed to increasing diversity within the university community.

To view entire vacancy #080873 and apply, create an electronic application at <http://www.iastatejobs.com> that includes a cover letter briefly summarizing qualifications, curriculum vitae, a statement summarizing past, present and future research plans, and a brief statement of teaching interests and philosophy. Applicants should arrange for three letters of reference to be sent to: Systems Biology Search Committee, Iowa State University, Department of Genetics, Development and Cell Biology, 1210 Molecular Biology Building, Ames, IA 50011 or to GDCBsearch-SB@iastate.edu.

To guarantee consideration the applications must be received by November 14, 2008.

Applications from women and members of under represented groups are strongly encouraged. Iowa State University is an EO/AA Employer.

"Karin S. Dorman" <kdorman@iastate.edu>

NatalMuseum SouthAfrica Curator

The Natal Museum, one of the largest, leading national Heritage Institutions in South Africa, invites applications for CHIEF CURATOR: NATURAL SCIENCES

KEY RESPONSIBILITIES: The Natal Museum scientists conduct research in various fields of natural sciences. The main responsibilities for this position are:

1. Implement a focussed programme of hypothesis-driven research, with emphasis on the unique resources housed in the Natal Museum: ideally insects (Diptera or Hemiptera), or other non-insect invertebrates such as arachnids, myriapods and earthworms. Register for higher postgraduate qualification where appropriate.
2. Augment the collections through fieldwork where appropriate.
3. Critically evaluate and interpret data, and prepare high quality manuscripts that meet the standards of the international scientific community.
4. Formulate targeted research projects and submit applications to external funding bodies. Report regularly and manage efficiently budgeting and expenditure.
5. Ensure efficient management and databasing of the collections, and provide guidance and scientific advice where necessary.
6. Provide junior research staff with advice and guidance i.r.o. collections management and research projects, facilitate and supervise their further training and post-graduate studies.
7. Interact with national and international research community, advise government departments, serve on scientific review and

evaluation panels (e.g. NRF), contribute to professional societies. 8. Engage in collaborative research projects to enhance research capacity. 9. Advise on production of African Invertebrates, one of the Natal Museum scholarly journals.

REQUIREMENTS: PhD degree in relevant field, or Masters degree with considerable experience, evidence of an active independent research programme, with at least five years research experience, publication record and curatorial experience. Experience and a proven record in attracting independent research funding. Broad discipline-based knowledge and understanding the role of museum research are essential, plus a high level of expertise in the relevant research field, both practical and intellectual. Excellent writing, presentation, communication and organizing skills. Valid drivers licence.

Salary: Negotiable at salary level 9 of Public Service Employees.

All applications should be hand delivered at the Museum's Reception or posted to:

The Deputy Director: Natal Museum Private Bag X 9070 Pietermaritzburg 3200

The closing date for the submission of applications is Friday, 17 October 2008 at 12:00. Late applications will not be accepted. Please send a covering letter stating the position you are applying for, a detailed resume with a list of references and certified copies of all qualifications and a copy of your identity document. Further enquiries regarding these positions can be obtained from the Deputy Director. If you have not heard from us by the 14 November 2008, consider your application to have been unsuccessful.

Dr Mikhail (Mike) B. Mostovski Assistant Director Editor-in-Chief, African Invertebrates Department of Natural Sciences Natal Museum, P. Bag 9070, www.africaninvertebrates.org.za Pietermaritzburg 3200, South Africa Tel: +27-(0)33-3410529 (direct); +27-(0)33-3451404 (reception) Fax:+27-(0)33-3450561 E-mail: mmostovski@nmsa.org.za www.nmsa.org.za

Brothers@ukzn.ac.za

NewMexicoStateU EvolutionaryEcol

Please find below an advertisement for a tenure-track faculty position in Ecology in the Biology Department

at New Mexico State University. The field of ecology is broadly construed by the search community to include evolutionary ecologists.

Sincerely, Tim Wright

Assistant Professor-Ecology-New Mexico State University

The Department of Biology at New Mexico State University invites applications for a tenure-track Assistant Professorship in Ecology requisition #2008011802. We seek an individual committed to undergraduate and graduate education with an outstanding record of research achievement to develop an extramurally funded research program. The successful candidate will hold a Ph.D. in biology or a related field. Post-doctoral experience is preferred. The Department of Biology serves undergraduate majors in Biology, Microbiology and Conservation Ecology, and M.S. and Ph.D. graduate students. We maintain active and diverse research, teaching and outreach programs with strong HHMI, NIH, and NSF support. Research is also supported by natural history museums and affiliations with the Jornada Basin LTER program and the Institute for Applied Biosciences. Please visit our website at <http://biology-web.nmsu.edu/> Application materials consisting of a signed letter of application, current curriculum vitae, statements of teaching philosophy and research plans, and contact information for at least three references, should be sent to: Ecology Search, PO Box 30001, MSC 3AF, New Mexico State University, Las Cruces, NM 88003, or as a single PDF file (include last name in file name) by e-mail to ecosearch@nmsu.edu. Application review will begin 15 November 2008 and continue until position is filled. NMSU IS AN EEO/AA EMPLOYER. Offer of employment is contingent upon availability of funding, upon verification of eligibility for employment in the United States, and upon completion of applicable background review.

– Assistant Professor Department of Biology MSC 3AF New Mexico State University Las Cruces, NM 88003 Phone: 575-646-1136 Office: 375 Foster Hall Behavior lab: 301 Foster Hall, 575-646-4863 Genetics lab: 455 Foster Hall, 575-646-4791 <http://biology-web.nmsu.edu/twright> “Timothy F. Wright” [<wright@nmsu.edu>](mailto:wright@nmsu.edu)

NewYorkU GenomicsSystemsBiol

As advertised in Science and Nature:

FACULTY POSITIONS Center for Genomics & Systems Biology DEPARTMENT OF BIOLOGY

As part of a multi-year hiring plan, New York University's Center for Genomics & Systems Biology in the Department of Biology invites applications for multiple faculty positions (rank open) to begin September 1, 2009, or as negotiated, pending administrative approval. Candidates investigating fundamental biological and cellular mechanisms at the level of systems and networks using high throughput approaches and/or computational methods are especially encouraged to apply.

Candidates will be expected to have or develop active, externally funded research programs and to participate in the department's teaching activities at both the undergraduate and graduate levels. The Center and the Biology Department (<http://biology.as.nyu.edu/>) offer an outstanding and collegial research environment. Strong interactions exist with faculty in its associated Center for Developmental Genetics (which is undergoing a parallel faculty search), and with other divisions within NYU including, The Courant Institute of Mathematical Sciences and The Skirball Institute for Biomolecular Medicine.

Applications should include cover letter, research statement, curriculum vitae, and three letters of reference. Electronic applications as PDF files should be sent to biology.recruitment@nyu.edu

Selection will begin November 1, 2008 and applications received before this date will be guaranteed full evaluation. Letters of reference should be sent electronically or to: Chair of the Search Committee, Center for Genomics & Systems Biology, Department of Biology, New York University, 1009 Silver Center, 100 Washington Square East, New York, N.Y. 10003.

NYU is an Equal Opportunity/Affirmative Action Employer.

NYU welcomes applicants whose research integrates evolutionary questions with techniques from genomics and systems biology. The department is home to a community of researchers in evolutionary theory, quantitative genetics, population genetics, phylogenetics, evolutionary developmental biology, evolutionary functional genomics, and molecular evolution.

Matthew Rockman Department of Biology and Center for Genomics & Systems Biology mrockman@nyu.edu
mrockman@nyu.edu mrockman@nyu.edu

North Carolina State University Evolutionary Biology

Multiple Faculty Positions in Biology

The newly renamed Department of Biology at North Carolina State University is undergoing a period of major expansion and we invite outstanding scientists in all areas of biology to apply for multiple tenure-track/tenured positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Outstanding senior applicants also may be considered. Applications from dual-career couples or groups of individuals are encouraged. We seek individuals studying fundamental problems in any area of biology and at any level from molecules to ecosystems. We are particularly interested in applicants using innovative theoretical, computational and/or experimental approaches to advance our mechanistic and quantitative understanding of living systems. Scientists working at disciplinary interfaces and/or using integrated/systems approaches are especially encouraged to apply. Applicants are expected to develop a high-impact research program and to participate in undergraduate, graduate, and post-doctoral education and training. Formal requirements include a PhD in Biology or in a related field plus an established track record of accomplishments appropriate for appointment as an Assistant or Associate Professor of Biology. To view a detailed description of the Department, applicants are encouraged to visit <http://www.cals.ncsu.edu/biology/> Candidates should submit an electronic copy of their cover letter, curriculum vitae, statement of research accomplishments and future research plans, description of teaching experience and interest, and contact information for three references at <http://ncsu.edu/jobs> under position number 01-16-0815. After a preliminary review, referees will be contacted and asked to submit letters of recommendation for selected candidates. The review of applicants will begin on November 14, 2008 and will continue until candidates are selected.

We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners. AA/EOE. NC State University welcomes all persons without regard to sexual orientation. Persons with disabilities requiring accommodations in the application and interview process please call (919) 515-2741.

anholt@ncsu.edu

OhioU EvolutionaryBiology

Evolutionary Biologist

The Department of Biological Sciences, Ohio University in Athens invites applications for a tenure-track Assistant Professor in Evolutionary Biology. We seek to hire a candidate whose research interests complement the current strengths within the department and who would contribute to the climate of diversity in the College. Applications will be accepted from candidates working with animal systems, across the entire range of this discipline. The department particularly encourages applications from individuals working in the areas of phylogenetics, comparative biology and/or animal behavior. A Ph.D. is required in a related area and postdoctoral experience is preferred. Applicants should submit their CV, statements of research interest and teaching philosophy, and up to 5 reprints/preprints to www.ohiouniversityjobs.com/-applicants/Central?quickFindT986. They should also arrange to have three letters of recommendation sent to Evolution Search, Department of Biological Sciences, Ohio University, Athens OH 45701. Review of applications will begin December 1st, 2008 and continue until the position is filled. Ohio University is a Research-Extensive institution, enrolling 19,500 students on the Athens campus, and is home to the Ohio Center for Ecology and Evolutionary Biology (www.ocees.ohio.edu), an interdisciplinary group of faculty from departments across the University. Women and minority candidates are strongly encouraged to apply.

Molly R. Morris morrism@ohio.edu (740)593-0337

Molly Morris <morrism@ohiou.edu>

OklahomaStateU PlantEvolution

Assistant Professor of Botany: Plant Evolution, Ecology, or Biogeography/Herbarium Director

The Department of Botany at Oklahoma State University in Stillwater (<http://botany.okstate.edu>) seeks

to hire a tenure-track Assistant Professor to start August 2009. Duties include developing a rigorous externally-funded research program in plant evolution, ecology, and/or biogeography; teaching undergraduate and graduate courses and mentoring students; and serving as Herbarium Director. Preference will be given to applicants who pursue research that includes field and collections-based studies that support the Herbarium (a collection of 140,000 specimens largely representing the Great Plains flora). Ph.D. and postdoctoral experience are required. Submit an application as one pdf to paula.shryock@okstate.edu. Include cover letter; CV; statements of research, herbarium, and teaching interests and philosophies; contact information for at least three references. Review of applications will begin December 1 and continue until position is filled. Oklahoma State University is an AA/EEO/E-Verify employer committed to diversity. OSU-Stillwater is a tobacco-free campus.

For more information contact Linda Watson at linda.watson10@okstate.edu or 405-744-5559.

“Watson, Linda” <linda.watson10@okstate.edu>

Portugal Borneo Technician ConservationGenetics

Conservation Genetics, Habitat Fragmentation, Mammals, Portugal, Borneo.

Technician job in conservation genetics: habitat fragmentation and large mammals of Borneo

NOTE: DEADLINE 15 SEPT 2008 !!!

The Population and Conservation Genetics group (<http://www.igc.gulbenkian.pt/research/unit/88>) is looking for a technician to work on the impact of fragmentation on large mammals from Borneo. The project will involve both lab, field and simulation work in collaboration with L. Chikhi (in Portugal) and B. Goossens (in Malaysia).

The candidate is expected to work in close collaboration with a post-doctoral researcher who will be hired on the same project. Since the post-doc and technician are expected to be complementary, we are open regarding the profile that the technician should have. S/he could thus be a biologist with a strong interest for

modelling, a biologist working in the laboratory or a theoretician/computer scientist with an equally strong interest in biological problems, and software development. Excellence and adaptability are the main selection criteria.

The Month Stipend follows the regulations of the FCT Scientific Fellowships in Portugal (745.00/month) and will initially be for 24 months. NOTE THAT THIS IS TAX-FREE.

The post-doc will be based at the Instituto Gulbenkian de Ciéncia (IGC, <http://www.igc.gulbenkian.pt/>) which is a leading Research Institute in Portugal and in Europe. Researchers at the IGC work on a wide range of subjects from epidemiology, to genetics, evolutionary biology, bioinformatics and theoretical immunology. The IGC is located in Oeiras, a small sea-side town 20 min. by train from downtown Lisbon, along the Tagus. It is only 10-15 min. walking distance from the beaches and the quality of life is excellent. The IGC provides excellent research conditions and English is the communication language among and within groups. Several other research institutions are located near-by addressing both fundamental and applied questions in biomedical sciences using interdisciplinary approaches.

Applications in PDF format will be accepted by email only (to chikhi@igc.gulbenkian.pt) until September 15th, 2008, and will include:

- a short CV
- a motivation letter
- two recommendation letters (sent independently by referees) or contacts of two referees.

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LounÃs Chikhi ChargÃ© de Recherche CNRS UMR CNRS Evolution et DiversitÃ© Biologique, Toulouse chikhi@cict.fr

NOUVELLE ADRESSE (01/10/2007 AU 30/09/2008):

Population and Conservation Genetics Group Instituto Gulbenkian de Ciéncia Rua da Quinta Grande, 6 P-2780-156 Oeiras, Portugal Tel: +351 21 446 46 71 Fax: +351 21 440 79 70 chikhi@igc.gulbenkian.pt

LounÃs Chikhi <chikhi@cict.fr>

QueensCollege CUNY EvoDevo

ASSISTANT PROFESSOR Evolutionary Developmen-

tal Biology Queens College of the City University of New York

The Department of Biology at Queens College of the City University of New York seeks a tenure-track Assistant Professor to begin September 1, 2009. We invite applications from candidates with a doctoral degree, postdoctoral experience, and a record of research accomplishment in the field of evolutionary developmental biology of plants or animals. We seek candidates whose research builds on current faculty strengths in the areas of evolution and development.

<http://qcpages.qc.cuny.edu/Biology/index.php> Successful candidates will be expected to establish a productive research program with extramural funding and teach at the undergraduate and graduate (M.A./Ph.D.) levels. Please submit a cover letter, a CV, a two- to three-page research plan, a statement of teaching interest and philosophy, and arrange for submission of three current letters of recommendation. All materials, including letters of recommendation, must be submitted by December 15, 2008 to:

Dr. Cathy Savage-Dunn, Chair, Evolutionary Developmental Biology Search Committee, Department of Biology, Queens College of CUNY, 65-30 Kissena Blvd., Flushing, NY 11367-1597

An equal opportunity/affirmative action/IRCA/Americans with Disabilities Act Employer

Mike Hickerson Assistant Professor Biology Department Queens College, CUNY 65-30 Kissena Boulevard Flushing, NY 11367-1597 office E114 Lab E321 office phone 718-997-3447 lab phone 718-997-3415 <http://qcpages.qc.cuny.edu/Biology/-fac.stf/hickerson.php> michael.hickerson@qc.cuny.edu michael.hickerson@qc.cuny.edu

ReedCollege Portland CichlidEvolution

Research Associate: A fulltime research associate position is available at Reed College to study the genomic, neural, and endocrine mechanisms underlying social behavior cichlid fishes from Lake Tanganyika.

Research duties will include quantification of gene expression level and hormone titers as well as behavioral observation. In addition to research duties the position will require purchasing of general laboratory supplies, maintenance of aquarium facilities, and some interac-

tion with undergraduate students.

The successful candidate will minimally hold a B.S./B.A. in Biology, or related field, and have experience in behavior analysis, as well as molecular biology or endocrinology. Computer skills, including Perl programming, statistical analysis with R-programming language or database management, are a plus.

Graduate degree(s) a plus, salary commensurate upon experience.

Applicants should send letter of intent, CV or resume, including the names and phone numbers of at least three references, to Susan Renn, Ph.D., Assistant Professor, Department of Biology, Reed College, 3203 SE Woodstock Blvd., Portland, OR, 97202, or by email to renns@reed.edu. Position open until filled. Reed College is an Equal Opportunity Employer.

renns <renns@reed.edu>

SanFranciscoStateU Bioinformatics

THREE TENURE-TRACK POSITIONS IN BIOLOGY SAN FRANCISCO STATE UNIVERSITY
Tenure-Track in Biology San Francisco State University

(3) Assistant Professor â Bioinformatics or Systems Biology We seek candidates using computational or mathematical approaches to the study of biological problems, especially individuals whose interests complement existing departmental strengths in molecular biology, genetics, physiology, systematic and evolutionary biology. Candidates are expected to establish collaborative work with individuals in computer science or mathematics as well as colleagues in biology. Responsibilities include teaching an upperdivision course in bioinformatics or systems biology. Qualifications are a Ph.D. degree and postdoctoral training. Teaching experience desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally funded research program. Send cover letter, curriculum vitae, separate statements of research and teaching interests, copies of significant publications, and arrange to have three reference letters sent to: Chair, Bioinformatics Search Committee, Dept. of Biology, San Francisco State University, 1600 Holloway Ave., San Francisco, CA 94132-1722. We encourage electronic submission of applications as a single PDF (excluding reference let-

ters; publications may be sent as separate PDF files) with âBioinformatics Search Committeeâ in the subject line to bioinfo@sfsu.edu.

(2) Assistant Professor â Genetics We seek candidates studying the genetics of any organism, especially individuals whose interests complement existing departmental strengths in developmental biology, cell biology, and evolutionary biology. Responsibilities include teaching upper- division courses in genetics and molecular genetics. Qualifications are a Ph.D. degree and postdoctoral training. Teaching experience desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally funded research program. Send cover letter, curriculum vitae, separate statements of research and teaching interests, copies of significant publications, and arrange to have three reference letters sent to: Chair, Genetics Search Committee, Dept. of Biology, San Francisco State University, 1600 Holloway Ave., San Francisco, CA 94132-1722. We encourage electronic submission of applications as a single PDF (excluding reference letters; publications may be sent as separate PDF files) with âGenetics Search Committeeâ in the subject line to genetics@sfsu.edu.

(1) Assistant Professor â Plant Physiology We seek candidates in plant physiology, especially individuals whose interests complement existing departmental strengths in plant molecular biology, physiological ecology, and systematic biology. Responsibilities include teaching an upper- division plant physiology course with laboratory. Qualifications are a Ph.D. degree and postdoctoral training. Teaching experience desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally funded research program. Send cover letter, curriculum vitae, separate statements of research and teaching interests, copies of significant publications, and arrange to have three reference letters sent to: Chair, Plant Physiology Search, Dept. of Biology, San Francisco State University, 1600 Holloway Ave., San Francisco, CA 94132-1722. We encourage electronic submission of applications as a single PDF (excluding reference letters; publications may be sent as separate PDF files) with âPlant Physiology Searchâ in the subject line to plantphy@sfsu.edu.

Review of applications begins 15 November 2008 and continues until a suitable candidate is chosen. For additional information, visit our web site at <http://www.sfsu.edu/~biology>. SFSU and the Department of Biology are committed to a diverse professoriate that includes women and individuals from underrepresented minority groups. SFSU is an EEO/AA employer.

The Department of Biology at San Francisco State University â Advancing Global Health and the Biosphere.

Karen Crow-Sanchez Assistant Professor Department of Biology San Francisco State University 1600 Holloway Ave San Francisco, CA 94132

crow@sfsu.edu (415) 405-2760

Karen Crow <crow@sfsu.edu>

UAarhus Bioinformatics

DEPARTMENT OF BIOLOGICAL SCIENCES FACULTY OF SCIENCE UNIVERSITY OF AARHUS DENMARK

Professor in Bioinformatics

A position as Professor in Bioinformatics is available at the Department of Biological Sciences, starting April 1, 2009 or later.

The professor designated is to head the research effort of the Department of Biological Sciences in molecular evolution and population genetics at the Bioinformatics Research Center (BIRC). In his or her research, the candidate is expected to combine an interest in the theoretical development of the subject with empirical investigations based on molecular-genetic data. The candidate should have a proven record of collaborations across the boundaries of relevant research fields to advance the subject and its applications.

Applications must be in English and include a curriculum vitae, a complete list of publications, a statement of future research plans and information about research activities, teaching qualifications and management experience, all in 4 copies (see <http://www.nat.au.dk/default.asp?id=7842&la=UK> for the recommended level of detail). If the applicant wants other material to be considered in the evaluation (publications and other documentation of research and teaching qualifications, as well as management experience) such material must be clearly specified and must either be enclosed in hardcopy (3 copies) or must be available electronically.

The Faculty refers to the Ministerial Order No. 92 of 15.02.2008 (<http://science.au.dk/default.asp?id=7839&la=UK>) on the appointment of teaching and research staff at the universities under the Ministry of Science, Technology and Innovation.

Salary depends on seniority as agreed between the Dan-

ish Ministry of Finance and the Confederation of Professional Unions.

Applications should be addressed to The Faculty of Science, University of Aarhus, Ny Munkegade, Building 1520, DK-8000 Aarhus C, Denmark, and marked 211/5-40.

The deadline for receipt of all applications is November 3, 2008, at 12,00 noon.

For more information please contact the Professor Freddy Bugge Christiansen (phone: +45 8942 3238; Email: freddy@biology.au.dk), or the head of the Department, Dr. Jørgen Bundgaard, Department of Biological Sciences, Build. 1540, Ny Munkegade, 8000 Aarhus C., Denmark (phone: +45 8942 3266; email: biojb@biology.au.dk).

The University of Aarhus has 35,000 students, 8,500 members of staff and a turnover of DKK 4.8 billion in 2008.

The university's strategy and development contract are available at <http://www.au.dk/en/strategy>

Institutleder Jørgen Bundgaard Biologisk Institut Aarhus Universitet Ny Munkegade, bygning 1540 8000 Århus C Tlf.: 8942 3266 Email: joergen.bundgaard@biology.au.dk

“\Jørgen Bundgaard\”
<joergen.bundgaard@biology.au.dk>

UAlberta LabTech VertebrateBiol

The Department of Biological Sciences, University of Alberta is advertising for a Lab Coordinator / Biology Technologist in Vertebrate Biology. This is a full-time position with a generous benefits package. For details and application instructions, see:

< <http://www.careers.ualberta.ca/Support/Competitions.aspx?key=1004> >
<<http://www.careers.ualberta.ca/Support/Competitions.aspx?key=1004> >
Closing date is November 20th. A mid-December start date is anticipated.

A. Richard Palmer, FRSC Systematics and Evolution Group Department of Biological Sciences University of Alberta Edmonton, Alberta T6G 2E9 CANADA phone: (780) 492-3633 message: (780) 492-3308 FAX: (780) 492-9234

<http://www.biology.ualberta.ca/palmer/palmer.html>

(biological asymmetries, software, course notes) Founding Chair, Comparative Morphology & Development section, Canadian Society of Zoologists. For info. see: <http://www.biology.ualberta.ca/CMD/home.htm> rich.palmer@ualberta.ca

UCSB is an Equal Opportunity Affirmative Action Employer

Todd Oakley, Associate Professor Ecology Evolution and Marine Biology University of California- Santa Barbara, CA 93106

oakley@lifesci.ucsb.edu oakley@lifesci.ucsb.edu

UCaliforniaSantaBarbara EvolutionaryGenomics

Assistant Professor - UCSB - Evolutionary Genomics

The Department of Ecology, Evolution, and Marine Biology at the University of California, Santa Barbara invites applications for a tenure-track faculty position starting at the rank of Assistant Professor. We are searching broadly for an interactive scientist who addresses fundamental questions in evolutionary biology via analysis of large-scale gene sequence and/or expression data sets. Applications from those who can take advantage of UCSB's world class marine facilities and international standing in marine biology are especially encouraged. The successful candidate is expected to develop an internationally recognized research program and to teach graduate and undergraduate students in his or her area of expertise. The successful applicant will have a PhD and clear evidence of research productivity.

Applicants should submit 1) an application letter 2) a curriculum vitae 3) a statement of research accomplishments and future plans 4) a statement of teaching experience and interests, 5) up to three selected publications and 6) names and contact information of three persons willing to provide letters of reference (the committee will solicit letters for a short-list of candidates). Submit applications to:

Evolution Search Committee Department of Ecology, Evolution, and Marine Biology University of California Santa Barbara, CA 93106-9610 U.S.A

Alternatively, applications can be sent electronically, and questions addressed to:

evolutionsearch@lifesci.ucsb.edu

Review of applicants will begin November 1 and will continue until the position has been filled

The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service

UCincinnati EvoDevo

Two faculty positions in Integrative Biology at the University of Cincinnati

The Department of Biological Sciences, University of Cincinnati, will fill two tenure-track Assistant Professor positions in Integrative Biology studying: (1) ANIMAL DEVELOPMENT at genetic or cellular levels, and addressing questions of broad interest, e.g., evolution or gene-environment interactions, and (2) effects of ENVIRONMENTAL STRESS from natural or human-induced causes on processes at cellular, population or community levels in plants, microbes, or animals. Applicants must hold a Ph.D. and have postdoctoral experience. Successful candidates will build an outstanding, externally-funded research program, and contribute to undergraduate and graduate teaching. Individuals complementing existing strengths in behavior, neuroscience or evolutionary biology in the department (<http://bioweb.ad.uc.edu>) are encouraged to apply. Apply online at <https://www.jobsatuc.com> (Position Numbers 28UC2634, 28UC2635) by submitting cover letter, curriculum vita, and statements of research interests and teaching philosophy. Send three letters of recommendation and three representative reprints separately (PDF preferred) to: wischer@ucmail.uc.edu. Review of applications will begin November 30, 2008. The University of Cincinnati is an affirmative action/equal opportunity employer. Women, minorities, disabled persons, and Vietnam Era and disabled veterans are encouraged to apply. – Michal Polak Associate Professor Department of Biological Sciences University of Cincinnati Cincinnati, OH 45221-0006 USA Tel: +1 (513) 556-9736 Email: polakm@email.uc.edu polakm@email.uc.edu

UFlorida Insect Vector Genomics

ASSOCIATE or FULL PROFESSOR: Genetics/Genomics of Insect Vectors of Disease. Background in genetics and/or comparative or functional genomics. Initially the incumbent will study the genetics/genomics of the Asian citrus psyllid, vector of the citrus greening pathogen. For more information on the position, please contact Dr. Marjorie Hoy (mahoy@ifas.ufl.edu). QUALIFICATIONS: Ph.D. To insure full consideration, applications must be submitted by December 15, 2008. Formal review begins then and will continue until a suitable candidate is identified. Go to <https://jobs.ufl.edu>, Requisition 0800874 to apply. Attach: 1) letter of application describing professional interests and graduate level courses you may teach, 2) curriculum vitae, 3) PDF files of 2-3 publications. Send 3 letters from referees to: Dr. Marjorie A. Hoy, Dept. Entomology & Nematology, POB 110620, Univ. Florida, Gainesville 32611-0620. Additional information: Tel: 352-392-1901 X 153, mahoy@ifas.ufl.edu

Marta L. Wayne, PhD Director, UF Genetics & Genomics Graduate Program Associate Professor P.O. Box 118525 Department of Biology University of Florida Gainesville, FL 32611-8525 (courier: B30 Bartram Hall) vox: 352-392-9925 fax: 352-392-3704 <http://www.zoo.ufl.edu/mlwayne> mlwayne@mac.com

UMassachusetts Boston MolecularEvol

BIOINFORMATICS/MOLECULAR EVOLUTION ASSISTANT PROFESSOR UNIVERSITY OF MASSACHUSETTS BOSTON

The Department of Biology at the University of Massachusetts, Boston seeks applicants for a full-time tenure track Assistant Professor who specializes in molecular evolution, phylogenetics, bioinformatics or a closely related field starting in September 2009. Applicants should be well versed in evolutionary and ecological theory. Applications will be particularly welcome from candidates who utilize creative experimental ap-

proaches that combine molecular biology, genetics and bioinformatics to address complex environmental problems and who can participate in an interdisciplinary Ph. D. program. The research specialty of the applicants could include molecular evolution, phylogeography, phylogenetics, modeling or other cross-disciplinary fields. The successful applicant is expected to establish an externally funded research program, direct the research of students at the undergraduate, masters and doctoral levels, and interact with a dynamic group of ecologists, environmental, evolutionary and computational biologists. Excellence in teaching at the undergraduate and graduate levels is expected. A Ph.D. and postdoctoral training (or equivalent professional experience) are required. Members of underrepresented groups and women are strongly encouraged to apply.

Applicants should send a statement of teaching and research interests and goals, curriculum vitae, 3-5 representative reprints, and three letters of reference to Ron Etter, Bioinformatics/Molecular Evolution Search, Biology Department, University of Massachusetts, 100 Morrissey Blvd., Boston, MA 02125. For further information, visit the Biology Department website at www.bio.umb.edu, or contact Ron Etter, Chair of Search Committee, at ron.etter@umb.edu or (617)-287-6613. Target date for receipt of applications is Nov. 15, 2008, but applications will be reviewed until the position is filled.

UMass Boston is an Affirmative Action, Equal Opportunity, Title IX employer.

Ron J. Etter Professor Biology Department University of Massachusetts Boston, MA 02125 Voice 617-287-6613 FAX 617-287-6650 email ron.etter@umb.edu

Ron Etter <ron.etter@umb.edu>

UMemphis BioinformaticsPhylogeneticist

BIOINFORMATICS PHYLOGENETICIST

Applications are invited for a tenure-track Assistant Professor position in the Department of Biology at The University of Memphis for a phyloinformaticist. We are looking for candidates who have a strong background in biodiversity science, in the areas of phylogenetics, biogeography, computer science, bioinformatics, systematics and evolution of megadiverse and understudied species groups. The candidate will have bioin-

formatics training, show potential to collaborate with existing faculty, and participate in the interdisciplinary Bioinformatics Program. The successful applicant will be expected to develop an externally funded research program, supervise PhD and MS students, and contribute to the teaching curriculum in evolution, as well as develop courses in computational phyloinformatics, and his/her area of taxonomic expertise. Candidates must have a PhD and post-doctoral experience, a record of peer-reviewed publication and scholarly accomplishments, and evidence of funding potential. Anticipated start date is in August 2009. Closing Date for Applications is November 17, 2008.

The University of Memphis is a comprehensive state university with an enrollment of approximately 21,000 students. The Department of Biology offers B.S., M.S., and Ph.D. degrees in Biology. There are approximately 30 faculty, 14 staff, 50 full-time graduate students, and over 750 majors in the department. The department administers the Meeman Biological Field Station, the Ecological Research Center, and is closely affiliated with the Integrated Microscopy Center, the interdisciplinary Bioinformatics Program, and the W. Harry Feinstone Center for Genomic Research.

Apply online at: <https://workforum.memphis.edu/-applicants/jsp/shared/frameset/Frameset.jsp?time=-1224101221859> Dr. Randall J. Bayer, Professor and Chair, Department of Biology, University of Memphis, 3774 Walker Avenue, Memphis, TN 38152 phone: (901) 678-2596 email: rbayer@memphis.edu

rbayer@memphis.edu rbayer@memphis.edu

UMichiganDearborn EvolutionaryBiol

ASSISTANT PROFESSOR OF BIOLOGY UNIVERSITY OF MICHIGAN - DEARBORN

The Department of Natural Sciences invites applications for a new tenure track assistant professor position in Biology beginning in Fall 2009. A relevant doctorate and a commitment to both teaching and research are required. Postdoctoral experience is desirable. Teaching duties will include lecture and laboratory participation in the Introductory Biology Team (Organismal and Environmental Biology) and an upper division undergraduate course in the applicant's specialty. The upper level class may include topics in Cellular and

Molecular Biology, Biochemistry, Neuroscience, Developmental Genetics, Environmental Biology, or Toxicology. The area of research is open, but should connect to existing faculty and departmental strengths and resources. The successful applicant is expected to develop and maintain an active externally funded research program leading to peer-reviewed publications. A research lab, modest start-up funds, and teaching release time are available. We encourage the engagement of undergraduate students in research.

Applicants should submit a letter of application, along with a complete curriculum vita, statement of teaching philosophy, outline of research plan, and the names of three references to: Biology Faculty Search Secretary, Department of Natural Sciences, University of Michigan-Dearborn, 4901 Evergreen Rd., Dearborn, MI 48128.

Review of applications will begin November 15, 2008.

The University of Michigan-Dearborn is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment and strongly encourages applications from minorities and women. For further information, please consult <http://www.casl.umd.umich.edu/-naturalsciences/> Anne Danielson-Francois Assistant Professor Division of Biology Department of Natural Sciences University of Michigan-Dearborn 4901 Evergreen Road Dearborn, MI 48128-1491

danfranc@umd.umich.edu danfranc@umd.umich.edu

UMinnesota EvolutionEcolBehav

The University of Minnesota has just opened two searches in the Department of Ecology, Evolution, and Behavior. One is for a Behaviorist the other for an Ecologist but in both cases we are looking for someone who is working at the interface of Ecology, Evolution, and Behavior. As such, I think they are appropriate for posting on EvoDir.

FACULTY POSITION IN ANIMAL BEHAVIOR

The Department of Ecology, Evolution, and Behavior at the University of Minnesota announces a search for a tenured or tenure-track faculty position. We seek an innovative, productive scientist conducting research in Behavior, preferably that interfaces with either Ecology or Evolutionary Biology. We are particularly interested

in research that helps to integrate the department's existing research strengths. Appointment at a more senior level may be considered for candidates with records of outstanding accomplishment.

This position provides opportunity for collaboration within and beyond the EEB Department, access to students in multiple graduate programs (e.g., Ecology, Evolution and Behavior; Anthropology; Cognitive Sciences; Conservation Biology; Neuroscience; Psychology), access to extensive research facilities, and a competitive start-up package. The campus is located in the heart of the Minneapolis-Saint Paul metropolitan area, which is rich in cultural and natural attractions. For more information about the position, the department, and related initiatives (we are also searching for an ecologist working at the interface with either behavior or evolutionary biology) see www.cbs.umn.edu/eeb/.

Duties and Responsibilities of the Position: The successful candidate will develop a strong, extramurally funded integrative research program. He or she will contribute to the undergraduate and graduate teaching missions of the College of Biological Sciences, advise undergraduate, graduate, and postdoctoral students, and participate in professional service. Initial teaching duties will include teaching an introductory Behavior course.

Qualifications: Ph.D. (or foreign equivalent) in biology or a related discipline, strong publication record in disciplines related to the position, potential to initiate and sustain a strong research program in behavior, ability to communicate effectively, track record of interacting creatively and productively with other scientists, and evidence of commitment to teaching.

Interested applicants should apply online at employment.umn.edu. Search for requisition # 158791 and attach a letter of application, curriculum vitae, statements of research and teaching interests, and the names and addresses of three professional references.

Review of applications will begin December 1, 2008. The approximate start date is September 1, 2009.

Equal Opportunity Educator and Employer

FACULTY POSITION IN ECOLOGY

The Department of Ecology, Evolution, and Behavior at the University of Minnesota announces a search for a tenured or tenure-track faculty position. We seek an innovative, productive scientist conducting theoretical and/or empirical research in Ecology, preferably that interfaces with the disciplines of either Behavior or Evolutionary Biology. We are particularly interested in research that helps to integrate the department's existing

research strengths. Appointment at a more senior level may be considered for candidates with records of outstanding accomplishment.

This position provides opportunity for collaboration within and beyond the EEB Department (Cedar Creek LTER, Itasca Biological Station and Laboratories, Institute on the Environment, Water Resources Center, and the Bell Museum of Natural History), access to students in multiple graduate programs (e.g., Ecology, Evolution and Behavior; Plant Biology; Conservation Biology; Water Resources Science) and a competitive start-up package. The University of Minnesota-Twin Cities Campus has extensive research facilities (high performance computing, genomics, field research stations, greenhouses, museum collections, herbarium, and laboratories). The campus is located in the heart of the Minneapolis-Saint Paul metropolitan area, which is rich in cultural and natural attractions. For more information about the position, the department, and related initiatives (we are also searching for an animal behaviorist working at the interface with either Ecology or Evolutionary Biology) see www.cbs.umn.edu/eeb/.

Duties and Responsibilities of the Position: The successful candidate will develop a strong, extramurally funded integrative research program. He or she will contribute to the undergraduate and graduate teaching missions of the College of Biological Sciences, advise undergraduate, graduate, and postdoctoral students, and participate in professional service. Initial teaching duties will include teaching an introductory Ecology course.

— / —

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

UMinnesota PlantComputationalBiol

Assistant or Associate Professor, Computational Biology for Plant Breeding and Genetics, 9-month, tenured or tenure-track position, Department of Agronomy and Plant Genetics, University of Minnesota. For detailed description and application requirements see < <http://employment.umn.edu/> ><http://employment.umn.edu> and search for requisition #158294. Application re-

views begin November 30, 2008. The University of Minnesota is an equal opportunity educator and employer.

Thank you.

Jeanne Davy Sr. Administrative Director Department of Agronomy and Plant Genetics University of Minnesota 411 Borlaug Hall 1991 Upper Buford Circle St. Paul, MN 55108-6026 Ph - 612-625-1937 Fax - 612-625-1268 Email - davyx001@umn.edu

Jeanne Davy <davyx001@umn.edu>

UMontana PopulationGenetics

This ad should appear in Science shortly.

EVOLUTIONARY/POPULATION GENETICIST

The program in Organismal Biology and Ecology (<http://dbs.umt.edu/graduate/OBE/index.php>) in the Division of Biological Sciences at the University of Montana invites applications for a tenure-track position at the Assistant or Associate Professor level. We seek a broadly trained evolutionary/population geneticist who uses molecular or genomic approaches to address fundamental evolutionary questions in natural populations. The ideal applicant will have post-doctoral research experience, demonstrated evidence of teaching experience and effectiveness, an established record of research productivity, and demonstrated success or potential to develop a vigorous, extramurally funded research program. Teaching responsibilities will include an undergraduate course in genetics and evolution, plus an additional undergraduate and graduate course to be determined. We particularly encourage candidates interested in applying their research to conservation issues and participating in the interdisciplinary Wildlife Biology program (<http://www.cfc.umt.edu/WBIO/>).

Applicants should send application materials (CV, statements of research and teaching interests, representative examples of publications, and names of three references) to: Doug Emlen, Chair, Evolutionary Genetics Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812; or by email to evolgenetics.search@umontana.edu. Review of materials will begin on December 1, 2008.

The Division is interested in hiring a candidate who will enhance the ethnic and gender diversity of its faculty. UM is an Equal Employment Opportunity/Affirmative Action/ADA/Veterans Preference employer and the re-

ipient of an active NSF ADVANCE award.

Lila Fishman, Ph.D. Assistant Professor Division of Biological Sciences University of Montana Missoula, MT 59812

phone: (406) 243-5166 fax: (406) 243-4184
lila.fishman@mso.umt.edu

lila.fishman@mso.umt.edu lila.fishman@mso.umt.edu

UNeuchatel Tech PlantEvolutionaryEcol

Research assistant / technician position - plant evolutionary ecology

A Swiss NSF funded research assistant/technician position is available from February 1st, 2009 for a highly organised and motivated technician or graduate with a degree in a biological science subject.

You will work with and assist members of our lab on a variety of projects on the evolution and ecology of reproductive traits in plants. Currently we work mainly on *Silene latifolia* and its pollinator *Hadena bicruris*. Research questions include investigating the effects of inbreeding on reproductive success, analysing pollen dispersal, as well as investigating the effects of interactions with pollinators for selection on plant reproductive traits. See http://www.unil.ch/dee/page7005_en.html for more detailed description of some of our projects and <http://www.unil.ch/dee/page10687.html> for publications.

The work involves using molecular methods and experimental approaches in the greenhouse, garden and field. Lab work involves to genotype individuals using available microsatellite DNA loci and to assist group members with plant culturing and phenotyping (e.g. measuring vegetative and floral traits).

Experience with molecular techniques (e.g. DNA extraction, PCR, analysis of microsatellite DNA markers) and the ability to communicate in English with an international team are requested. Experience with plants and with microscopy techniques, as well as some knowledge of French, would be an advantage but are not essential. You will be able to work as part of a team to develop new techniques, carry out experiments and collect the resulting data. You will also be able to work independently to maintain the lab's protocols, safety information and carry out pilot work.

The position is for up to three years at 60% occupation degree.

To apply, please send a motivation letter, your CV, and the address of two potential referees to Prof. Giordina Bernasconi, Institute of Biology, Rue Emile Argand 11, University of Neuchatel, CH-2009 Neuchatel, Switzerland, Fax: +41 32 718 30 01 (snail mail is preferred; applications by email must have the subject line "technician position").

Giordina Bernasconi <Giordina.Bernasconi@unine.ch>

UNotreDame 2 Genomics

The University of Notre Dame Department of Biological Sciences is looking for candidates to fill the following two positions:

1. Assistant/Associate Professor of Genomics, University of Notre Dame

The Department of Biological Sciences at the University of Notre Dame invites applications at the Assistant or Associate professorial rank. We seek candidates holding the Ph.D. who use whole-genome, integrative approaches to study fundamental biological and evolutionary processes. The successful candidate will be expected to establish a vigorous externally funded research program that will compliment an active interdisciplinary research community with foci in the genetics, functional genomics, evolution, and ecology of parasites and pathogens, their insect vectors, and vertebrate hosts. This individual will participate in the broad initiatives of the Eck Institute for Global Health (<http://www.nd.edu/~cghid>) that include new Genomics and Bioinformatics Core Facilities. In addition this individual has the opportunity to oversee the Genomics Core, which would include preferred access to core services. The successful candidate will teach one undergraduate course and develop one graduate course in an area of interest. This position is one of five driven by a global health initiative that includes two additional current searches for a pathogen biologist and bioinformaticist and two future hires in epidemiology and disease ecology. The department houses a state-of-the-art imaging core, specialized BSL-3 containment laboratories, insect rearing and research facilities, and an AAALAC accredited animal facility. Information on departmental 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. Applications will be accepted until December 1, 2008, but review will commence immediately. Qualified individuals should send a cover letter, curriculum vitae, research prospectus, summary of teaching interests, and the names and addresses of three references to: Chair, Genomics Search Committee, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556-0369. For more information, email the search chair Dr. Michael Ferdig at ferdig.1@nd.edu.

The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

2. Clare Boothe Luce Junior Faculty Position, University of Notre Dame

The University of Notre Dame invites applications for the Clare Booth Luce Professorship within the College of Science. The position is restricted by the Clare Boothe Luce bequest to the Henry Luce Foundation to women who are U.S. citizens. The position is a tenure-track position and is open to the areas represented in the departments of Chemistry and Biochemistry, Biological Sciences, Mathematics, and Physics. The search is part of a broad university initiative to expand interdisciplinary scholarship in the sciences that engages multiple departments and colleges at Notre Dame. The initiative includes substantial faculty and infrastructural growth. Candidates should have a Ph.D. and a research record commensurate with the expectations of a chair position at this rank. Send letter of application, curriculum vitae, a statement of research interests and plans, and three letters of reference to: Dr. Kathleen Cannon, Chair, Luce Search Committee, 248 Nieuwland Science Hall, College of Science, University of Notre Dame, Notre Dame, Indiana 46556 or forward to cannon.1@nd.edu Deadline for application is December 5, 2008.

The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

– 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>

Michael Ferdig <ferdig.1@nd.edu>

UNotreDame Genomics

Assistant/Associate Professor of Genomics. The Department of Biological Sciences at the University of Notre Dame invites applications at the Assistant/Associate professorial rank. We seek candidates holding the Ph.D. who use whole-genome, integrative approaches to study fundamental biological and evolutionary processes. The successful candidate will be expected to establish a vigorous externally funded research program that will compliment an active interdisciplinary research community with foci in the genetics, functional genomics, evolution, and ecology of parasites and pathogens, their insect vectors, and vertebrate hosts. This individual will participate in the broad initiatives of the Eck Institute for Global Health (<http://www.nd.edu/~cghid> <<http://www.nd.edu/%7Ecghid>>) that include new Genomics and Bioinformatics Core Facilities. In addition this individual has the opportunity to oversee the Genomics Core, which would include preferred access to core services. The successful candidate will teach one undergraduate course and develop one graduate course in an area of interest. This position is one of five driven by a global health initiative that includes two additional current searches for a pathogen biologist and bioinformaticist and two future hires in epidemiology and disease ecology. The department houses a state-of-the-art imaging core, specialized BSL-3 containment laboratories, insect rearing and research facilities, and an AAALAC accredited animal facility. Information on departmental 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. Applications will be accepted until December 1, 2008, but review will commence immediately. Qualified individuals should send a cover letter, curriculum vitae, research prospectus, summary of teaching interests, and the names and addresses of three references to: *Chair, Genomics Search Committee, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556-0369*. For more information, email the search chair Dr. Michael Ferdig at ferdig.1@nd.edu <<mailto:ferdig.1@nd.edu>>. /The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply. /

UNotreDame GenomicsFacilityManager

Research Assistant Professor. The Eck Institute for Global Health at the University of Notre Dame invites applications for a Research Faculty member to manage a newly renovated and funded Genomics Core Facility (GCF). We seek a highly motivated PhD scientist with an interest in guiding the development of the facility, conducting independent research, building collaborative relationships, and interfacing with a sister Bioinformatics Core Facility on campus. This is a unique opportunity to develop an independent research program while assisting in the university's aggressive move toward state-of-the-art genome science research capacity. This successful candidate will oversee the core lab functions and technical staff, including Sanger and next gen sequencing platforms, genotyping and population genomic applications, and various microarray platforms. This researcher will work closely with the faculty director of the GCF to develop services and pricing structures, to facilitate faculty research, and to identify opportunities for sustainable facility growth. Salary and rank are competitive, commensurate with experience and skills (starting range 50-70K, plus benefits). Significant space and resources are available, and include dedicated bench space and access to equipment and competitive intramural research funding for independent research. .Position Requirements.: A Ph.D. in biology, bioinformatics or related field. Some experience in using genomic tools, e.g. microarrays, high-throughput sequencing or genotyping is expected. Computer literacy, software familiarity is required and any additional data analysis experience is a plus. To apply: please forward a cover letter, CV/resume, statement of research interests (1-2 pages) and names of 3 references to Michael Ferdig (ferdig.1@nd.edu <<mailto:ferdig.1@nd.edu>>); Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556-0369./The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply./

Michael Ferdig <ferdig.1@nd.edu>

UNSW Sydney Evolution Lecturer

Lecturer in Evolution Faculty of Science SCHOOL OF BIOLOGICAL, EARTH & ENVIRONMENTAL SCIENCES and EVOLUTION & ECOLOGY RESEARCH CENTRE REF. 6226NET

The School of Biological Earth and Environmental Sciences (BEES, www.bees.unsw.edu.au), in conjunction with the Evolution & Ecology Research Centre (E&ERC, www.eerc.unsw.edu.au) is seeking a Lecturer in Evolution. BEES is a large and multi-disciplinary school incorporating a range of disciplines within the broad fields of Biology, Marine Science, Geography and Geology.

The appointment will enhance UNSW's research profile in Evolutionary Biology and Evolutionary Ecology and the appointee will be a member of the UNSW Evolution & Ecology Research Centre. The successful candidate will be required to establish an internationally recognized, externally funded research program in Evolutionary Biology and to teach undergraduate courses in Evolution, Ecology, Genetics and/or Biology. Applicants should have a strong research record and should outline in their application their capacity to contribute to the existing research areas in the Centre and the School. Candidate's research should be focussed on adaptive processes and the testing of theory, and should not be entirely descriptive. Candidates whose research involves the experimental study of adaptation and its links to genetic, genomic, behavioural and/or physiological processes may be preferred.

UNSW is one of the Group of Eight research intensive universities, and Evolution and Ecology are among our recognized research strengths.

This is a continuing appointment. North American applicants should note this is equivalent to a tenure-track assistant professor position.

Salary range for Lecturer A\$73,573 - A\$86,734 per year (plus 17% employer superannuation and leave loading)

Candidates holding existing ARC/NHMRC fellowships and/or research grants are encouraged to apply as well as those who are able to form synergistic interactions with existing researchers and groups within the E&ERC. Women and people from equity groups are also encouraged to apply.

Applicants should systematically address the selection criteria in their application.

For the Information Package click < <http://www.hr.unsw.edu.au/services/recruitment/jobs/-/services/recruitment/jobs/info/pd31100808.pdf> >HERE

Enquiries may be directed to Associate Professor Rob Brooks on +61 2 9385 2065 or email rob.brooks@unsw.edu.au or Associate Professor David Cohen on telephone + 61 2 9385 8084 or email d.cohen@unsw.edu.au . Further information on the School, please visit: < <http://www.bees.unsw.edu.au/> ><http://www.bees.unsw.edu.au/>

Applications close : 01 December 2008

Evolution & Ecology Research Centre www.eerc.unsw.edu.au School of Biological, Earth and Environmental Sciences The University of New South Wales Kensington, Sydney 2052 NSW, Australia PH: +61-2-9385-2587 FAX: +61-2-9385-1558 <http://www.bees.unsw.edu.au/school/staff/rob.brooks/brooksresearch.html> rob.brooks@unsw.edu.au

UOklahoma EvoDevo

The search that the advertisement is referring to is actually very open, and I am hoping specifically to attract Evo-Devo types by posting this on EvolDir. Therefore I would be grateful if you could post the ad.

Developmental Biologist The Department of Zoology, University of Oklahoma, invites applications for a tenure-track position at the Assistant Professor level, beginning August 2009. We seek an outstanding researcher and teacher with broad interests in developmental biology to join an integrative zoology department. Preference will be given to applicants whose research and teaching interests complement our existing strengths in development, neurobiology, cell signaling, behavior, ecology and evolutionary biology. We expect the applicant to establish an externally-funded research program and contribute to undergraduate and graduate teaching, including a core undergraduate course in developmental biology each year. In alternate semesters, the candidate will have the opportunity to develop a specialty course(s) in her/his area of interest. Our successful candidate will have a PhD and demonstrated ability to conduct significant independent research as judged by publications. Send

curriculum vitae, reprints/preprints, and research and teaching statements, and arrange to have three letters of recommendation sent to Chair, Developmental Biology Search Committee, Department of Zoology, The University of Oklahoma, 730 Van Vleet Oval, Norman, OK, 73019, or as PDFs to devbiosearch@ou.edu. Further information about the Department of Zoology is available at zoology.ou.edu. Screening of candidates will begin December 15, 2008 and will continue until the position is filled.

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

Dr. Ingo Schlupp Department of Zoology University of Oklahoma 730 Van Vleet Oval Norman, OK 73019 USA Office: 001 405-325-4908 FAX: 001 405-325-6202 schlupp@ou.edu <http://faculty-staff.ou.edu/S/-Ingo.B.Schlupp-1/> <http://www.ou.edu/darwin/Site/Home.html> and Section of Integrative Biology #C0930 University of Texas Austin, TX 78712 USA schlupp@mail.utexas.edu

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Ingo Schlupp <schlupp@ou.edu>

USouthFlorida PlantEvolutionaryBiol

We are advertising for two positions a plant biologist and a spatial pattern/ecosystem person. For the plant biologist position, we have an expressed preference for someone using genetic tools, and thus we welcome applications from evolutionary biologists and geneticists.

The full text of the ad appearing in the October 3 issue of Science is:

***BIOLOGY FACULTY POSITIONS** University of South Florida

*The Division of Integrative Biology/Department of Biology invites applications for two tenure-track faculty positions that will be part of a newly formed global change cluster in the School of Natural Sciences and Mathematics. A Ph.D. in biology or related field is required, and postdoctoral experience and evidence of an externally funded research program are desirable. Successful candidates for both positions will be expected to develop a strong externally funded research program, mentor graduate students, and teach undergraduate

and graduate courses.

***PLANT BIOLOGIST (ASSISTANT PROFESSOR* level).** We welcome candidates with research interests in any aspect of plant biology (including algae), from genes to ecosystems; especially those employing genetic tools.

***SPATIAL ANALYSIS/ECOSYSTEMS (ASSISTANT/ASSOCIATE PROFESSOR* level).** We welcome candidates who focus on spatial analysis of ecological processes. Candidates already in tenure-track or tenured positions may be considered for the rank of Associate Professor.

Please submit the following: cover letter, curriculum vitae, statement of research and teaching interests, and three representative publications to: *Mary Parrish, Department of Biology, Division of Integrative Biology, University of South Florida, 4202 East Fowler Avenue, SCA110, Tampa, FL 33620.*

Also have three letters of recommendation in PDF sent to *e-mail: bioibsearches@cas.usf.edu <<mailto:bioibsearches@cas.usf.edu>> . * Review of applications will begin on November 21, 2008. The position will be open until filled.

According to Florida law, applications and meetings regarding them are open to the public. /For ADA accommodations, please contact *Mary Parrish, telephone: 813-974-6210* at least five working days prior to need. USF is an Affirmative Action/Equal Employment Opportunity Institution./

– Dr. Gordon A. Fox Voice: (813)974-7352 Fax: (813)974-3263 Dept. of Biology ((for US mail:)SCA 110) ((for FedEx etc:)NES 107) Univ. of South Florida 4202 E. Fowler Ave. Tampa, FL 33620, USA <http://foxlab.cas.usf.edu> “Trying is the first step towards failure.” – Homer Simpson

Gordon Fox <gfox@cas.usf.edu>

UTennessee 6 MathematicalEvolution

Faculty Positions at the University of Tennessee, Knoxville, at the interface between mathematics and biology (as seen in the Oct.10 issue of Science)

As part of a major initiative associated with the newly-formed National Institute for Mathematical and Biological Synthesis (NIMBioS), funded by the National

Science Foundation, the U.S. Department of Homeland Security and the U.S. Department of Agriculture, the University of Tennessee, Knoxville (UTK) over the next three years is recruiting at least six new faculty members whose research interests are at the interface of mathematics/computation and biology. For all positions, evidence of outstanding research abilities and experience in collaborative, interdisciplinary research is expected. These faculty positions include:

(i) The Department of Ecology and Evolutionary Biology at UTK seeks to fill a tenure-track position in mathematical/ computational ecology and/or evolution at the assistant professor level, to start August 1, 2009. A Ph.D. is required and postdoctoral experience is preferred. A commitment to excellence in undergraduate and graduate teaching is expected. Teaching responsibilities include graduate-level courses appropriate for mathematics and biology students. Attractive research areas include complex ecological or evolutionary systems, and integrative analysis at multiple spatial/temporal scales. We seek a creative colleague who has an innovative research program using mathematical and/or computational approaches to address fundamental questions in ecology or evolution. Interest in collaborating with empiricists is a plus. UTK has outstanding programs in mathematical/computational biology and offers an exciting environment for collaborative research with colleagues from other departments and Oak Ridge National Laboratory.

For information about the department visit <http://eeb.bio.utk.edu>. Candidates should apply to Dr. Louis J. Gross, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN 37996-1610. Applicants should send a CV, statements of research and teaching goals, and up to 5 reprints, and should arrange for three reference letters to be submitted. Electronic applications should be sent to Ms. Cheryl Lynn via e-mail: cjlynn@utk.edu. Applications will be reviewed beginning November 3, 2008.

(ii) We seek an outstanding researcher for a tenure-track position (level appropriate to experience) with a strong record of research in the mathematics and modeling of animal infectious diseases, to start August 1, 2009. A Ph.D. and/or D.V.M. is required and postdoctoral experience is preferred. A commitment to excellence in teaching is expected. Teaching responsibilities will include graduate-level courses appropriate for a diverse group of biology, mathematics, wildlife and veterinary students. We seek a creative colleague who has an innovative research program using mathematical and/or computational approaches to address fundamental questions in infectious disease ecology or evolution, as well as interest in collaborations with empir-

ical researchers. UTK has an active interdisciplinary research group in epidemiology and offers an exciting environment for collaborative research with colleagues from departments in the Colleges of Arts and Sciences, Agricultural Sciences and Natural Resources, and Veterinary Medicine.

(iii) We seek outstanding colleagues for four additional tenure-track positions (level appropriate to experience) with strong records of research in fields at the interface of mathematics and biology that expand upon the current outstanding programs in mathematical ecology and evolutionary biology at UTK. A Ph.D. is required and post-doctoral experience is preferred. A commitment to excellence in teaching at both undergraduate and graduate levels is expected. Teaching responsibilities will include graduate-level courses in the area of the applicant that would be appropriate for a diverse group of biology and mathematics students. Biological areas of interest include, but are not limited to, biological networks, cell biology, host pathogen- environment systems, and immunology.

The home departments for the faculty positions under (ii) and (iii) will be chosen as appropriate to the expertise of the individual, but could include the departments of Mathematics; Ecology and Evolutionary Biology; Biochemistry, Cellular and Molecular Biology; Microbiology; Forestry, Wildlife and Fisheries; the College of Veterinary Medicine; or various other departments in the College of Agricultural Sciences and Natural Resources and the College of Engineering. Applicants with extensive research experience and an internationally recognized record of accomplishment may be considered for a Governor's Chair appointment (details at <http://www.tennessee.edu/governorschairs/>).

— / —

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>

UTrier EvolutionaryBiology

Under the auspices of the 'Zukunftsinitiative Rheinland-Pfalz [Rheinland-Pfalz Future Initiative]', subject to final approval, a number of posts are available at Fachbereich VI [Department VI] of the University of Trier (Geography and the Geosciences)

in a research association in natural sciences and jurisprudence. The posts are open to scientific assistants of either sex (E13 and E13/2) as from 01.01.2009, and appointments will be made for a period of 3 years.

A number of sub-projects are to be set up in the natural sciences with a view to studying the effects of expected climatic changes on the distribution of plant and animal species. Here the main emphasis will be on the question to what extent these changes have implications for the planning of conservation areas on the national or European level. This will involve the use and further development of existing predictive tools for modelling species distribution and population processes. Taking regional climate simulations into account, both modelling approaches are to be linked to selected regions. In addition, forecasts are to be made of the effects of the expected change in land use resulting from the extended cultivation of energy plants on the propagation of variously mobile animal species. For estimating the exchange of individuals between populations, both direct (marking experiments) and indirect methods (genetic marker systems, especially microsatellites) will be used. With the help of GIS, species specific dispersal parameters are to be used to predict the changes in the connectivity of the landscape for the species in question under different scenarios of agricultural development.

We are therefore looking for committed employees in connection with the following sub-projects:

Sub-project 1: Modelling distribution area changes for selected plant and animal species on different spatial scales (postdoctoral post, E13 100%) This position involves the execution of the modelling of distribution areas and population dynamics described above, supervising the scientific theses of students associated to the project at diploma, bachelor and/or master level, as well as coordinating the project association itself. Requirements: a completed doctorate in the field of the modelling of population developments, preferably with a main focus on biology. Involvement in the preparation of reports and busy publication activities are also expected.

Subproject 2: Regional climate modelling (doctorate position, E13 50%) The position involves the execution of regional climate simulations for Rheinland-Pfalz using the COSMO-CLM model for climate scenarios, the processing and evaluation of the model data, provision of data for other subprojects and the coupling of population models with the regional climate model. Requirements: A good to excellent degree (diploma or MA) in meteorology or the environmental sciences, good presentation skills, modelling experience using meteorological models, knowledge of programming (FORTRAN,

some experience with LINUX), good understanding of processes, a command of statistics, a capacity for working independently and for working together as part of a team, a talent for interdisciplinary cooperation. Also desirable or advantageous would be a knowledge of boundary layer meteorology and SVAT modelling.

Sub-projects 3: Dispersal abilities of butterflies and grasshoppers, in dependence on land use (doctoral posts, E13 50%) and Sub-project 4: Propagation possibilities of earthworms, in dependence on land use (doctoral posts, E13 50%) Both positions will involve the selection and sampling of suitable geographical areas of study, the execution of molecular-genetic laboratory analysis and ecological work in the field on the dispersal ecology of selected species. Assistance in connection with ecological field work is possible through supervising the theses of diploma, BA and/or MA students; there will be the possibility of receiving intensive support in connection with the publication of the results at international level. Requirements: a completed college or university degree in the natural sciences, preferably with a main focus on biology and/or the geosciences. Applicants are expected to have knowledge and practical experience of the use of molecular-biological laboratory (PCR, microsatellite analysis) and analytical procedures (e.g. AMOVA, STRUCTURE), as well as experience of GIS. Knowledge of species would be an advantage, but is not absolutely essential.

The place of work will be Trier. Seriously handicapped persons showing the right qualifications will be given preferential treatment.

Please send your application, with the usual supporting documents, by 15 October 2008 to: Universität Trier Fachbereich VI - Geographie/Geowissenschaften Prof. Dr. Michael Veith Biogeographie Am Wissenschaftspark 25-27, D-54286 Trier, GERMANY

For more detailed information please contact: Sub-projects 1 and 3:

— / —

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

UTubingen ComparativeZooology

The Faculty of Biology of the Eberhard-Karls-

University Tübingen invites applications for a Full professor (W3) in “Comparative Zoology” starting April 1, 2009.

The successful applicant will pursue an internationally high-ranking research agenda in the field of comparative vertebrate zoology. The applicant’s research should focus on the comparative and functional analysis of interspecific and/or intraspecific evolutionary adaptations. Research topics may include functional morphological and ecomorphological adaptations, biodiversity, biosystematics, and/or animal ecology. Teaching obligations cover all aspects of zoology, in particular vertebrate evolution. Close collaborations with the interfaculty teaching and research platform “Evolution and Ecology Forum Tübingen” are expected.

A formal requirement for appointment is a “Habilitation” or an equivalent level of scientific and academic teaching qualifications.

The position is a full professorship in the context of the BMBF supported “200-Professorinnen-Programm” to increase the number of female professorships at German universities. This program encourages in particular applications by female scientists. Disabled applicants with equal qualification will be given preferential treatment.

Please send your application (including CV, copies of certificates, list of publications, research statement, grants awarded, teaching records and plans, copies of relevant certificates) by November 28, 2008 to Dekanater fuer Biologie der Universitaet Tuebingen, Auf der Morgenstelle 28, D-72076 Tuebingen, Germany

Nico K. Michiels (Prof.) Animal Evolutionary Ecology Zoological Institute, Faculty of Biology University Tuebingen Auf der Morgenstelle 28 E 72076 Tuebingen Germany

Tel. +49 7071 29 74649 Mobile +49 170 4758003 Fax +49 7071 29 5634

nico.michiels@uni-tuebingen.de <http://www.uni-tuebingen.de/evoeco> <http://www.eve.uni-tuebingen.de>

“Nico Michiels (Tü)” <nico.michiels@uni-tuebingen.de>

**UWisconsinMilwaukee
BioinformaticsGenomics**

The Department of Biological Sciences, University of

Wisconsin-Milwaukee invites applicants for a faculty position at the assistant (tenure-track) or associate professor level.

We are seeking outstanding candidates with a Ph.D. in biology or a related area with postdoctoral research experience. Applicants whose work has an aquatic focus, and with expertise in biometrics, bioinformatics, genomics, computational biology, ecological modeling, systems biology, or biological aspects of climate modeling, are preferred. The successful candidate will be expected to develop a vigorous, externally-funded research program, take an active role in directing undergraduate and graduate education, and contribute to teaching in biomathematics and core biology courses.

This position complements a second position in Mathematical Sciences (www.jobs.uwm.edu/-applicants/Central?quickFindP619) and is part of a new interdisciplinary research initiative in Aquatic Biomathematics, involving our two departments and the UWM Great Lakes WATER Institute. Potential applicants are encouraged to visit our websites: www.uwm.edu/Dept/Biology, www.math.uwm.edu, and www.glwi.uwm.edu.

To apply, please go to www.jobs.uwm.edu/applicants/-Central?quickFindP742. A completed application should include: cover letter, curriculum vita, statement of research goals, statement of teaching interests, and letters of professional reference. Applicants should arrange to have 3 letters of reference sent as pdf attachments to the departmental chair (sandgren@uwm.edu) or mailed to Biomathematics Search at the following address: Department of Biological Sciences, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201.

Screening of candidates will begin November 19, 2008 and continue until the positions are filled. Appointments begin August 2009. UWM is an Equal Opportunity/Affirmative Action Employer.

Best Regards, Michael.

Michael J. Carvan III, Ph.D. Phone: (414) 382-1706 Lab: (414) 382-1712 Fax: (414) 382-1705 Email: carvanmj@uwm.edu

Great Lakes WATER Institute University of Wisconsin-Milwaukee 600 E. Greenfield Avenue Milwaukee, Wisconsin 53204

The most exciting phrase to hear in science, the one that heralds new discoveries, is not “Eureka!” (“I have found it!”), but “That’s funny...” -Isaac Asimov

The most beautiful thing we can experience is the mysterious. It is the source of all true art and all science.

He to whom this emotion is a stranger, who can no longer pause to wonder and stand rapt in awe, is as good as dead; his eyes are closed. - Albert Einstein

“Michael J. Carvan” <carvanmj@uwm.edu>

VanderbiltU ResearchTechnician Genomics

Research Assistant at Vanderbilt University, Department of Biological Sciences

The Bordenstein lab at Vanderbilt University seeks a full time research technician. The lab studies animal-microbe interactions and the patterns that characterize the evolution and function of bacteriophages that inhabit bacterial endosymbionts of invertebrates (Wolbachia). This work will involve a combination of molecular and computational biology to achieve enrichment, genome sequencing, and comparative sequence analyses of viruses. Familiarity with cloning and sequencing, molecular biology of viruses, computational skills, GenBank, Linux/Unix, or genome assembly tools should be highlighted in your cover letter. Wolbachia are an excellent bacterial system to study these biological phenomena. The spread of this germline bacterium through the majority of animal species over the last 100 million years represents one of life's great pandemics. This position will involve interconnections among computational biology, microbiology, genomics, evolution, and entomology.

Salary and job level is commensurate with education and prior experience. The position includes benefits and coauthorship. Please include a cover letter with anticipated start date, resume, and minimum of three references in your application referring to Requisition Number JAM70015 at <https://www3.recruitingcenter.net/clients/vanderbilt/-publicjobs/canviewjobs.cfm>. Questions can be addressed to s.bordenstein@vanderbilt.edu and additional information about the Bordenstein lab can be found at: <http://bordensteinlab.vanderbilt.edu>. Vanderbilt is located in the academic and cultural center of Nashville, TN.

-

Seth Bordenstein Assistant Professor Department of Biological Sciences Vanderbilt University VU Station B, Box 35-1634 Nashville, TN 37235

email: s.bordenstein@vanderbilt.edu
phone: 1.615.322.9087 fax: 1.615.343.6707
<http://bordensteinlab.vanderbilt.edu>
s.bordenstein@vanderbilt.edu

VirginiaCommonwealthU PlantMolecularSystematics

Virginia Commonwealth University

PLANT MOLECULAR SYSTEMATIST

The Department of Biology invites applications for a faculty position in the area of molecular systematics. Primary teaching responsibilities will include an undergraduate and a graduate plant related course. This is a nine-month, tenure-track position at the rank of Assistant Professor. Anticipated start date is August 16, 2009, pending funding. The successful applicant will be expected to develop a productive, externally funded research program and direct graduate students through the Ph.D. level. Postdoctoral experience is expected and demonstrated evidence of excellence in scholarship and teaching is required. Competitive start-up funds and excellent core facilities are available.

Virginia Commonwealth University has an enrollment of 32,000 students, including over 1,500 undergraduate and approximately 100 graduate students in Biology. The Department of Biology (www.has.vcu.edu/bio) has 32 faculty members with diverse research interests. Additional research opportunities are available through the Center for Environmental Studies and at the Rice Center, VCU's nearby field station on the James River. Submit vitae, statements of research and teaching interests, and three letters of reference by December 15, 2008 to: Stephanie Millican, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2012.

Virginia Commonwealth University is an equal opportunity/affirmative action employer. Women, minorities and persons with disabilities are encouraged to apply.

Rodney Dyer <rjdyer@vcu.edu>

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28s secondarys tructure phylogenetics

Hello everyone, I am looking for a software to predict the secondary structure of lsu rDNA and then use it for phylogenetic analysis. or anything similar is acceptable. Thank you

– Stefanos Martimianakis PhD Student University of Patras, Greece Dep. of Biology Sect. of Genetics Email: stmartim@upatras.gr

<stmartim@upatras.gr>

Agarose gel stains answers

Hello EvolDir community:

A little while back I posted a message asking for suggestions for ethidium bromide alternatives. Thank you very much to all who responded! Below you can find a summary of responses, followed by my original post.

It seems that most people still use ethidium bromide, though there are a few alternatives. SYBR Safe (Invitrogen) and GelRed (Biotium) were by far the alternatives recommended most often, though there are of course some concerns associated with each. Potential concerns include: 1) Stability. SYBR Safe is light sensitive and degrades rapidly, so you need to add it fresh each time. SYBR Green and SYBR Gold are more sensitive, but potentially more hazardous. GelRed can be used multiple times and seems to have similar stability to ethidium bromide. 2) Cost. SYBR Safe is more expensive than other alternatives (though dilution may be an option). the need to buy a different filter for SYBR Safe to capture optimal fluorescence (or make sure your new gel doc system comes with an appropriate filter). Some have had success with the standard

ethidium filter. GelRed uses the standard filter. 3) Sensitivity. Some found a lack of sensitivity to detect bands <20 0bp with SYBRSafe (though others did not mention any problems). 4) Ease of use. SYBRSafe and GelRed can be directly incorporated into the gel, whereas SYBRGold and SYBRGreen cannot (seems to affect mobility). Also SYBRSafe should be added after the molten gel is allowed to cool for awhile.

Other stains mentioned included SafeView (NBS Biologicals; noted as troublesome for cloning), Envision (Amresco), GoldViewT (http://www.sbsbio.com/-eng_shiji.asp), and Megafluor (Gentaur; noted for low sensitivity). Several people point out that anything that binds to DNA should be treated with caution, and some mention that the hazards of ethidium bromide may have been overstated (see <http://rrresearch.blogspot.com/2006/10/heresy-about-ethidium-bromide.html> and <http://bitesizebio.com/2008/01/28/warning-dihydrogen-monoxide-is-worse-than-ethidium-bromide/>). Recommendations for image capturing included Kodak, UltraLam, Eagle Eye, BioRad, BioVision 3000. Also Kris Hundertmark's web page on gel docs comes highly regarded by myself and others: http://users.iab.uaf.edu/~kris_hundertmark/-Lab/Geldoc.html. Invitrogen's blue transilluminator was suggested a few times to avoid using UV altogether. A design flaw in the system allows for buffer to seep in, but covering it with a sheet of acetate seems to solve the problem.

Many people wanted to know about my super-awesome recipe for sodium-borate (SB) buffer. It is from a BioTechniques paper a few years ago "Brody and Kern. 2004. BioTechniques 36: 214-216. I follow the recipe as in the paper, making a 20X stock solution and diluting it down as needed. An insider tip: it is helpful to use a fine-grained boric acid; otherwise it will take a long time to go into solution. As a conductive media, it mitigates the runaway positive feedback loop between temperature and current that occurs with Tris-based buffers, thereby allowing super-fast separation of fragments (without the unfortunate side-effect of melting your gel). When I experimentally tested TBE, TAE, and SB in the lab, I found similar resolution of both small and large products, and also calculated the cost of SB as about one-fifth that of TBE. I have used it for routine separation and for cutting bands out of a gel. It works fine with Qiagen's gel extraction kit" I haven't tried other kits.

Original post:

I have recently started a new lab and would like to explore less toxic alternatives to Ethidium Bromide staining of agarose gels. Although I am aware of SYBRSafe,

I have not used it. Also, I have heard about dyes like Crystal VU (methyl violet stain from Genlantis) that do not require UV to visualize, but I think sensitivity suffers. Thus, I would like to poll the EvolDir community for their experiences and recommendations.

Certainly, any chemical that binds to DNA should be handled with caution, but I am hoping to reduce toxicity and minimize accumulation of hazardous waste. Cost and sensitivity are of concern, although for the most part I am just 'checking' genomic DNA, PCR products, etc. Additionally, it would be convenient if the solution could be incorporated directly into the agarose gel (no post-staining). Also, I typically use SB (sodium borate) buffer for agarose gels (a switch from TBE or TAE that I highly recommend - lower cost, equally effective, and not exothermic like tris-based buffers so you can run gels faster - but that's a story

— / —

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>

Arginine repressor protein

Hi all,

I am trying to find information on the transcription terminator sequence for the Arginine Repressor gene in E. coli, if it even exists, but I can't seem to find any information about it. If anyone could help me or point me in the right direction, I'd appreciate it greatly.

Cheers, Brad Davis

davi1847@umn.edu davi1847@umn.edu

Bionumbers database

Dear All

There is an exciting new database on the internet- BioNumbers - the database of useful biological numbers <http://bionumbers.hms.harvard.edu/> Below is a short introduction.

BioNumbers (bioNumbers.org) enables you to find in one minute any common biological number that can be important for your research, such as the rate of translation of the ribosome or the number of bacteria in your gut. You will find full reference, comments and related numbers that are useful.

A review can be found at <http://openwetware.org/wiki/BioNumbers> A review on mybiotechlifenet: <http://my.biotechlife.net/2007/08/30/bionumbers-the-database-of-useful-biological-numbers/> Some interesting bionumbers:

Tables describing Developmental stages including approximate age and size in Human, Pig, Rat, Fish, chicken, frog (to find these simply enter in the 'find terms' box 102123, 102199, 102197, 102201, 102200, 102124 respectively).

Mutation rate per genome per replication, Human Homo sapiens, 0.16 mutation/genome/replication (100417)

Mutation rate per base pair per replication, Human Homo sapiens, 5E-11, mutation/bp/replication (100414)

Mutation rate per base pair per replication, Bacteriophage M13, 7.2E-07, mutation/bp/replication (100226)

Mutation rate per base pair per replication, Mouse Mus musculus, 1.8E-10, mutation/bp/replication (100315)

whitmanjohnathan@yahoo.com

BioTek Precision XS Micropipettor

Hi all-

I am wondering if anyone that uses this forum has a BioTek Precision XS Micropipettor in their lab. If so, for what applications do you use it, what kind of volumes are typically exchanged, and how satisfied are you as far as the instrument meeting your needs/expectations? In particular, our lab has just purchased one and we are interested in using it to set up PCRs, combine samples for multiplexing, clean samples for sequencing, etc. I would like to get in contact with somebody who uses it for these and other functions.

Joel Anderson Joel.Anderson@tpwd.state.tx.us

Calculating relatedness

Hello,

I am looking for advice on calculating relatedness among individuals using microsatellite markers. The individuals are derived from 3 populations and I do not have information on the background allele frequencies in the populations. Advice on methods and software packages would be greatly appreciated

Thanks!

Michelle L. Steinauer Research Assistant Professor College of Veterinary Medicine Department of Biomedical Sciences Oregon State University 105 Magruder Hall Corvallis, OR 97331 Phone: 505-977-6268 Fax: 541-737-2730 michelle.steinauer@oregonstate.edu

“Steinauer, Michelle” <Michelle.Steinauer@oregonstate.edu>

Closing Kewalo Marine lab

Hi all,

The University of Hawaii is seriously considering closing one of it's two marine labs, Kewalo Marine Lab, where Mark Martindale and Elaine Seaver work. Marine Labs are like evolutionary innovations, once you lose them it may take a very long time to get them back.

You can add to the blog on the news story at this site: http://www.starbulletin.com/news/hawaii/news/-20080923_Kewalo_labs_proposed_closure_protested.html

I've sent a message to Dr. David McClain, the President of the University of Hawaii System and suggest that you send one too, if you are concerned about this unique marine lab being closed down.

mccclain@hawaii.edu

Such a message might include the following comments:

Dear Dr. McClain,

I am writing to express my dismay over the recent decision by Gary Ostrander, vice chancellor for research and graduate education and interim director of the Pacific Biosciences Research Center to close Kewalo Marine Lab.

http://www.starbulletin.com/news/hawaiinews/-20080923_Kewalo_labs_proposed_closure_protested.html

This move appears to be uninformed, considering the importance of the world's oceans to humans, the vast potential of the marine environment in biological studies and current ecological problems that threaten the unprecedented biodiversity and untapped knowledge in the world's oceans. Marine Labs are unique places where most of the world's Marine Biological Research is conducted.

At Kewalo Marine Lab, scientific advances in genomics and marine exploration are applied in novel and creative ways to understanding the marine environment and biological organisms that live within it. Kewalo Marine Lab is known world-wide for cutting edge research on marine research on a variety of topics, including coral biology, larval biology, marine ecology and evolution. The labs have hosted many scientists over the years, who have studied Hawaiian plants and animals, contributing to the understanding of the near shore environment in Hawaii.

I urge you to reconsider this short-sighted decision and work with Kewalo scientists to find a solution to keep the marine lab open and carrying out it's mission.

Aloha,

hej nol@hawaii.edu

Corrections for GeneticsOfPopulations

Dear All,

I am in the process of revising my book, Genetics of Populations, for the fourth edition. I would appreciate any comments that would be helpful in deciding what to include or not include in this new edition. In particular, I would appreciate comments from people who have used the third edition in class. Thanks in advance, Phil Hedrick (philip.hedrick@asu.edu)

Diallelic data program

Hi all Does anybody know of a statistical program to

analyze genetic differences among populations with diallelic markers (microsat data or allozyme data) combined with morphometrical data. Best regards Gabi Gerlach

Gabriele Gerlach, Prof. Dr.

AG Biodiversität und Evolution der Tiere Institut für Biologie und Umweltwissenschaften Carl von Ossietzky Universität Oldenburg 26111 Oldenburg Tel. 0441 798 3986 Fac 0441 798 3937 Email: gabriele.gerlach@uni-oldenburg.de

gabriele gerlach <gabriele.gerlach@uni-oldenburg.de>

DNA Fragment Analysis Software

Hello!

I've been searching the WWW for a preferably open source DNA fragment analysis software that can run natively on Mac OS X 10.4.11 Tiger or higher, and uses .fsa files produced by ABI sequencers. Unfortunately I haven't had much success.

Can anybody be so kind to help me, please?

Thanks,

Licinia

- Licinia Gouveia Assistant Research Technician Maree - Marine Ecology & Evolution Research Group CCMar - Centro de Ciências do Mar do Algarve Universidade do Algarve Campus de Gambelas Faro, 8000-119 PORTUGAL

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Mobile phone: +351 96 635 35 75

<http://www.linkedin.com/in/liciniagouveia> <http://ccmar.ualg.pt/maree> "I'm smart enough to know that I'm dumb." - Richard Phillips Feynman (1918-1988), 1965 Nobel Physics Prize

lgouveia@ualg.pt

Evanno Method Structure

I have a question regarding the delta k method of inferring the most likely k value in STRUCTURE. This method is discussed in the paper Evanno G, S Regnaut, J Goudet 2005. Detecting the number of clusters of individuals using the software STRUCTURE: a simulation study. Mol Ecol 14: 2611-2620. Obviously, there is no way to validate $k = 1$. But since $k = 2$ is based on prior values (in part) generated for $k = 1$, is it also invalid? The reason I ask is that I often get the highest delta k value for $k = 2$, which for my pops makes little sense. Intuitively, $k = 2$ would seem to not be able to be validated by Evanno et al.'s method, but I need some reinforcement for this assessment! Any input will be appreciated.

Thanks, Alan Meerow

PLEASE NOTE THE NEW PHONE NUMBER!

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

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

Fish samples

Hi,

We are looking for tissue or genomic DNA from the following species:

Coregonus species
Prosopium whitefish species
grayling species
rainbow smelt or other smelt species
Salamanderfish
New Zealand smelt

If you can help us, that would be greatly appreciated. The project involves the examination of gene duplication and divergence of interacting partners in a muscle regulatory pathway in salmoniformes. Thank you.

David Liberles Department of Molecular Biology University of Wyoming liberles@uwyo.edu

"David A. Liberles" <liberles@uwyo.edu>

FrozenSection in situ

Dear Evoldir members, I am working on Chilopoda and I am looking for a in situ hybridization protocol on frozen section in ARTHROPODA. Can anyone help me?

Thanks for any input!

Francesca Bortolin

-

Francesca Bortolin , PhD Student Department of Biology University of Padova Via U. Bassi 58/B I-35131 Padova, ITALY Ph. +390498276238 e-mail: francesca.bortolin@unipd.it

francesca bortolin <francesca.bortolin@unipd.it>

Gel documentation website

My website for constructing a safe, inexpensive gel documentation system was recently referred to in this forum with the following link:

http://users.iab.uaf.edu/~kris_hundertmark/Lab/-Geldoc.html Unfortunately, I had recently updated the site and changed the name of the web page slightly, which likely made accessing the page impossible. I have fixed this problem so that link should work now. Sorry for the inconvenience.

Kris

- Kris Hundertmark Assistant Professor of Wildlife Ecology Institute of Arctic Biology and Department of Biology and Wildlife University of Alaska Fairbanks PO Box 757000 Fairbanks, AK 99775 907.474.7159 907.474.6967 (fax) http://www.iab.uaf.edu/~kris_hundertmark/ fflkh@uaf.edu fflkh@uaf.edu

Mac DNA Fragment Analysis Software

Dear all,

thanks to everybody who tried to help me. Unfortunately all the software you suggested (such as 4Peaks, Clustal or Geneious), although undoubtedly useful, are not adequate for my needs: what I need is a software that I can use to score size differences between alleles, as the ones I get when using microsatellite markers, for example. That's why I have .fsa files, because those are the output files produced by ABI 3130xl sequencer when it runs different genotypes. The only software applications I know that do this are produced by Applied Biosystems itself (Genotyper, GeneScan and GeneMapper), curiously specific to each series of sequencers produced, so if each has a different fragment analysis output file, they can't be directly used by other software (for example, .fsa files are supported by GeneMapper but can't be used either in Genotyper or GeneScan), and none of them runs on Mac OS X, although GeneScan was made to run on Mac OS 8.

There is also MegaBACE Genetic and Fragment Profiler from GE Healthcare Life Sciences, but it's only compatible with Windows 2000 and Windows XP.

Other than these, there's a software called GeneMarker (produced by a company called Softgenetics) that performs the same, but again it does not run on Mac OS X.

Regrettably, these applications are also proprietary, so you always end up paying big bucks to have them. Unless, as someone pointed out, you don't mind not using the full features of GeneMarker and you can get away with a free demo that can be download from Softgenetics page. Not using the full features means not being able to save the processed .fsa files, but still saving the allele size scoring in an Excel sheet. Then again, you can still only run it on Windows.

Finally, there is a software called STRand, that's developed and used at the University of California, Davis' Veterinary Genetics Lab, and you can score microsatellite alleles with it, but once again, it only runs natively on Windows. Besides, I've tried it before and, without questioning it's usefulness, it has a very complicated, unintuitive and unfriendly interface. And we all know how Mac users dislike software that's not spontaneous

and straightforward...

Anyway, for the time being, I'm afraid there is no other solution except using Parallels, Q Emulator, Bootcamp or other application of your preference to run Windows programmes on Macs...

I hope that this might just be the kind of incentive that someone really creative and computer-crafty would need to solve this issue, and make the lives of so many researchers easier.

Best luck to all your endeavours!

Licinia

– Licinia Gouveia Assistant Research Technician Maree - Marine Ecology & Evolution Research Group CCMar - Centro de Ciências do Mar do Algarve Universidade do Algarve Campus de Gambelas Faro, 8000-119 PORTUGAL

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Mobile phone: +351 96 635 35 75

<http://www.linkedin.com/in/liciniagouveia> <http://ccmar.ualg.pt/maree> "I'm smart enough to know that I'm dumb." - Richard Phillips Feynman (1918-1988), 1965 Nobel Physics Prize

lgouveia@ualg.pt

Microsatellite isolation

I'm trying to find microsatellite markers for use in relatedness within a population of golden-crowned sparrows (*Zonotrichia atricapilla*). I can see two options - finding heterospecific markers that work or generating species specific markers. The former I can do myself - however if anyone knows of markers that work in this species or that they think are particularly likely to work in this species, I'd love that information. The second task - species specific markers (i.e. creating a library?) is beyond the skills I currently have and probably would take more time than I can dedicate to the task. As such, I am wondering if anyone has information on commercial services that might do this for me (and maybe the cost).

Thank you,

Alexis

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Moulis France

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Alexis Chaine <alexis.chaine@EcoEx-Moulis.cnrs.fr>

Microsatellite Libraries

The Evolutionary Genetics Core Facility (EGCF) at Cornell University is offering construction and screening of genomic DNA libraries for microsatellite loci, as a service to the evolutionary community.

Genomic DNA is digested with two different restriction enzymes, ligated to an adapter and enriched for SSRs by hybridization to biotinylated repetitive oligos (dimers, trimers, and tetramers). Enriched, double-stranded DNA is recovered by PCR, ligated to pUC19, and ligations are used to transform *E. coli* cells. Colonies containing SSRs are identified by hybridization to radiolabeled repetitive oligos, positive inserts are amplified by PCR, and sequenced with universal M13 forward and reverse primers. Assembled, trimmed contigs and original ABI files are provided to investigators by e-mail. Sequences of additional clones are available upon request.

Total cost for this service is \$4300 per library, which includes all construction, screening, and guaranteed discovery of 32 unique clones containing SSRs. A purchase order and extracted genomic DNA (or tissue suitable for extraction) is required to initiate work.

The EGCF is not a commercial enterprise, therefore libraries will be constructed on a first-come, first-serve basis. We hope to include 6-7 libraries from outside Cornell this academic year.

If interested, contact Steve Bogdanowicz (smb31@cornell.edu, 607-254-4297, 254-4286).

krz2@cornell.edu krz2@cornell.edu

Microsat hybrid tree question

Dear all,

I would like to build a hybrid tree (microsatellite data) based on Cavalli-Sforza and Edwards (1967) chord distance (Dc, for tree topology) and Nei's standard distance (Ds, 1972) for branch length.

I've read about the possibility to construct such a hybrid tree with the fitch-margoliash algorithm, implemented in FITCH in PHYLIP.

Unfortunately, I could not find out, how to handle that, especially how to prepare the input file.

Does anyone know, how to use FITCH in this case, or is there another possibility or software?

Thank you in advance Best regards Inken Pedall

– Mrs. Inken Pedall University of Heidelberg Institute for Pharmacy and Molecular Biotechnology Biological Section Im Neuenheimer Feld 364 D-69120 Heidelberg Germany

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Inken Pedall <Inken.Pedall@urz.uni-heidelberg.de>

Natl Inst for Mathematical and Biological Synthesis

NIMBioS - National Institute for Mathematical and Biological Synthesis University of Tennessee, Knoxville (as seen in the Oct.10 issue of Science)

NIMBioS is a major initiative to foster interdisciplinary research at the interface between the mathematical and biological sciences. The Institute will address fundamental science and applied problems and will develop a cadre of diverse researchers capable of conceiving and engaging in research at this interface. NIMBioS is sponsored by the National Science Foundation, the US Department of Homeland Security and the US Department of Agriculture. Industry partners are IBM and ESRI, and the Great Smoky Mountains National Park

is a collaborative partner.

NIMBioS Opportunities

NIMBioS is sponsoring an array of activities starting January 2009 to foster research and education at the interface between mathematics and biology. The initial round of proposals are due November 10, 2008, for activities to be held starting January 2009. Details about the application process for activities are posted at <http://NIMBioS.org> and include: - Proposals for Working Groups to investigate novel, focused research questions requiring an interdisciplinary perspective. These involve 10-15 researchers who visit NIMBioS for up to a week at a time over one to two years. - Proposals for Investigative Workshops to foster a broader perspective of an area of fundamental or applied interest at the mathematics/ biology interface. These involve 30-40 researchers and students visiting NIMBioS for 3-4 days and are expected to identify areas for possible future Working Groups. - Proposals for post-doctoral fellowships based at NIMBioS for periods of one to two years. Applications are particularly encouraged from those who already have some experience in research at the mathematics/ biology interface, but applications are welcome from all individuals who wish to expand their interdisciplinary background through opportunities at NIMBioS. - Proposals for visiting positions of variable length for short-term visits of less than a month for students and researchers or longer-term sabbatical visits.

NIMBioS will host a Research Experience for Undergraduates program during Summer 2009, with applications due February 16, 2009.

Sergey Gavrilets Distinguished Professor Department of Ecology and Evolutionary Biology Department of Mathematics Associate Director for Scientific Activities National Institute for Mathematical and Biological Synthesis (NIMBioS) University of Tennessee Knoxville, TN 37996

phone: (865) 974-8136 fax: (865) 974-3067 e-mail: gavrila@tiem.utk.edu web: www.tiem.utk.edu/~gavrila NIMBioS site: www.nimbios.org gavrila@tiem.utk.edu

NESCent Call for Proposals

Call for Proposals - NESCent Postdoctoral Fellows, Sabbatical Scholars, Working Groups and Catalysis Groups **

The National Evolutionary Synthesis Center (NES-Cent) is now accepting proposals for postdoctoral fellows, sabbatical scholars, working groups and catalysis meetings. Proposals for postdoctoral fellowships are accepted at the December 1 deadline only. Proposals for sabbatical scholars, working groups and catalysis meetings are accepted twice a year, with June 15 and December 1 deadlines. Proposals for short-term visitors are considered four times a year, with deadlines on January 1, April 1, July 1 and September 1. For more information, please see our website at <https://www.nescent.org/science/proposals.php> . khenry@nescent.org

Netherlands Volunteer BirdBanders

VOLUNTEER FIELD ASSISTANT, *Friesland, The Netherlands*: Volunteers are needed *from 15 Mar to 15 May 2009* 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 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.

Volunteers and students involved will live together in an old church in a small and rustic village below the old sea dyke of Lake IJsselmeer. Applicants need to have good social skills, a driver licence, experience with handling birds and colour-ring reading is preferred but command of Dutch or Frisian is not necessary ;-). We provide housing and field equipment. Volunteers must pay own airfare and living expenses (3-4 Euro per day). A small refund of these costs might be possible (depending on pending grant applications). If interested, possibility to extend your stay to help with the fieldwork for the project on breeding ecology of the Black-tailed Godwit (Ended around 15 June).

TO APPLY: Please send a resume/CV, a cover letter addressing any relevant experience, time available and two references with e-mail addresses to Lucie SCHMALTZ [lucie.schmaltz@gmail.com] and Ross KENTIE [R.Kentie@rug.nl]. Animal Ecology Group, Center for Ecological and Evolutionary Studies, Uni-

versity of Groningen, PO Box 14, 9750 AA Haren, The Netherlands. For further info see: <http://www.rug.nl/biologie/onderzoek/onderzoekgroepen/dieroecologie/-onderzoek/researchstudies/migratimmune> Lucie SCHMALTZ <lucie.schmaltz@gmail.com>

New Journal MitochondrialDNA

New journal launched: Mitochondrial DNA

<http://www.informaworld.com/MitochondrialDNA>

Since their discovery as integral parts of eukaryotic cells, mitochondria have played a primary role in how scientists understand the organic world. These tiny entities are not only the “power houses” of the cell, but they have also been a “power player” in the human endeavor of biological study for several decades. As a consequence, Informa Press has started a new journal for mitochondrial DNA research called “Mitochondrial DNA” (formerly “DNA Sequence”).

We envision the journal as a resource for the following kinds of mitochondrial genome research:

- * mapping, sequencing, and analysis of mitochondrial DNA and RNA
- * descriptive studies of DNA sequences from whole mitochondrial genomes
- * population genetics, medical genetics, phylogenetics and human evolution that use mitochondrial DNA as a source of evidence for studies
- * population genetics and systematics theory that specifically address the use of mitochondrial DNA sequences
- * utility of mitochondrial DNA information in medical studies and in human evolutionary biology
- * DNA barcoding studies using both empirical approaches and theory-based critiques

The centralization of information and resources as well as a venue for publication should serve well, that part of the scientific community focused on mtDNA. In this context, we also intend to present timely reviews on subjects relevant to mitochondrial genomics, genetics and medicine. In addition, we will present a regular feature each issue called “mito-communications” that highlight and summarize published research or conference summaries that are relevant to the subject of mitochondrial genomics and genetics.

We invite submission of any manuscripts that you or your research group might see as appropriate for the journal. Also, suggestions for timely reviews on subjects related to mitochondrial DNA will also be entertained. The journal uses the Manuscript Central System, so rapid and timely review and

editorial handling are ensured. To access journal information and to submit a manuscript please go to the following URLs. SUBMISSIONS: <http://mc.manuscriptcentral.com/gdna> INFORMATION: <http://www.informaworld.com/MitochondrialDNA> We hope that in creating such a journal there will be reciprocal feedback and interaction from the various sub-disciplines using mtDNA. For instance, we envision this journal facilitating the incorporation of tools from, say, mitochondrial proteomics studies to human disease research, or from forensic studies using mtDNA to evolutionary biology. We hope that you will enjoy and benefit from this journal.

Rob DeSalle (desalle@amnh.org) Editor-in-Chief, Mitochondrial DNA

Division of Invertebrate Zoology, and Sackler Institute for Comparative Genomics American Museum of Natural History <http://research.amnh.org/users/-desalle> Sergios-Orestis Kolokotronis Sackler Institute for Comparative Genomics American Museum of Natural History Central Park West at 79th Street New York, NY 10024 -USA- tel +1 212 313 7654 koloko@amnh.org <http://softlinks.amnh.org> <http://-koloko.net> koloko@amnh.org koloko@amnh.org

NorthAmerican Jaera albifrons samples

Hi Evoldir users,

I am a PhD student working on the *Jaera albifrons* species group of intertidal isopods. This group of isopods are found in cold and temperate regions of the North Atlantic. I'm currently trying to get hold of some samples from North America to include in a phylogenetic analysis. If anyone is able to collect a few samples I would be really grateful. Please let me know if you are able to help.

Thanks in advance,

Dan Mifsud. –

Daniel Mifsud PhD Student Institute of Environmental and Biological Science University of Aberdeen, Tillydrone Avenue, Aberdeen AB24 2TZ Scotland

dmifsud@abdn.ac.uk <<mailto:dmifsud@abdn.ac.uk>>

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Phist Fst comparisons

Hi.

I'm looking for a program that performs the comparison that Spagedi (Hardy and Vekemans, 2002) does using microsatellite data, by which it tests if the phylogenetic information derived from allele length contributes to the measures of population differentiation, i.e. if R_{st} is larger than F_{st} (more explanation below). I would like to perform this test using mitochondrial DNA sequence data to test if Φ_{ST} is larger than F_{st} in my dataset. Does anyone know of a program that does this?

Thanks in advance, Gisselle – PhD student Molecular Ecology Research Group School of Biological Sciences Monash University - Clayton, Australia email: giselle.perdomo@sci.monash.edu.au or giselle_p@yahoo.com

– Extract from Hardy et al 2003 “Microsatellite Allele Sizes: A Simple Test to Assess Their Significance on Genetic Differentiation”

The principle of the test is based on obtaining a distribution of a statistic under the null hypothesis that differences in allele sizes do not contribute to population differentiation. Therefore, we use a randomization procedure whereby the different allele sizes observed at a locus for a given data set are randomly permuted among allelic states. Under the null hypothesis, the randomization procedure should not affect the expectation of a measure of differentiation such as R_{st} . On the contrary, if allele sizes contribute to genetic differentiation, the R_{st} computed after allele size permutation would depend solely on allele identity/nonidentity and hence have a smaller expectation than the value computed before randomization.

giselle_p@yahoo.com

Reducing microsatellite stutter paper

Hello EvolDir members, I'm trying to find (with no luck) the original Biotechniques paper which describes

the technique of using greatly abbreviated PCR times (e.g. 2/2/8 s) at each step to decrease microsatellite stutter. This technique was described in the response of Andrew DeWoody in 2006 (see below for quoted response) to an EvolDir member that asked about how to decrease stutter. I do not know the complete reference of this paper, and as Andrew read the paper a while ago he is also unsure of the reference though he thinks the paper might be about hymenopterans. Does anybody know the full reference of this paper or (preferentially) can they email the paper as an attachment to catherine.attard@students.mq.edu.au?

Many thanks and kind regards,

Catherine

EvolDir response: “You might try greatly abbreviated times at each step in PCR (e.g., 2 sec denaturation, 2 sec annealing, 8 sec extension). The original paper describing this was published in Biotechniques about 6 or 7 years ago; see also the attached reprint. [We had cited the Biotechniques paper in the bass reprint, but the citation was ultimately cut due to strict page limits in PRS.] In my experience, the approach either works very well or fails completely (on a locus by locus basis). If you get amplifications, the stutter is usually greatly reduced. DeWoody et al. (2000) Proc. R. Soc. Lond. B 267:2431-2437.”

– Catherine Attard (PhD candidate) Molecular Ecology Lab, Department of Biological Sciences Marine Mammal Research Group, Graduate School of the Environment Macquarie University Sydney, NSW 2109 Australia

dragonwhisperer123@gmail.com

RoyalSocietyIssue EvolutionOnPacificIslands

The Royal Society has just published an issue of Philosophical Transactions of the Royal Society B: Biological Sciences entitled: Evolution on Pacific islands: Darwin's legacy, organised and edited by Steven A Trewick and Robert H Cowie. I would very much like to promote this issue to your readers at the specially reduced rate of £47.50 as we know that it will be of immense interest to them.

Please could you let me know if this might be possible and note that the link that you should quote is <http://publishing.royalsociety.org/islands> which will give fur-

ther information about the issue. However please can you be sure to say that the specially discounted price is only available by contacting Debbie Vaughan at the Royal Society direct (debbie.vaughan@royalsociety.org <<mailto:debbie.vaughan@royalsociety.org>>) or by contacting Portland Customer Services (quoting reference TB 1508) using the contact details on the attached pdf or via the Portland Press website. Please note that the special offer price will not be on the website so it should be mentioned separately in any communication to your members/readers.

Felicity Davie felicity@tou-can.co.uk

Sitophilus and Oryzaeophilus samples

Hi Evoldir users Does anyone out there have any live Sitophilus or Oryzaeophilus samples? We would really like to get our hands on a couple of high quality samples, for some genetic work, and if anyone has a couple they could spare we would be really grateful. Specifically we would be very interested in:

Sitophilus granarius Oryzaeophilus surinamensis

Although the above are our key interest, any other species in the genera, or even related bugs would be lovely. So please let me know if anyone has any.

Thanks in advance

Dr Tom Gilbert

Associate Professor Department of Biology University of Copenhagen

mtpgilbert@gmail.com +45 51 89 13 30

<http://sites.google.com/site/mtpgilbert/Home> Tom Gilbert <mtpgilbert@gmail.com>

Software ATV

Other: Software announcement: A new version of the phylogenetic tree viewer ATV has been released (version 4.0.2). This software is available at: <http://www.phylosoft.org/atv/> New features include: + Web-service support: Direct reading of phylogenies from the Tree of Life project webservices (how to use: File|Read

tree from ToL... enter 2461 for Cnidarians, for example) + Dynamic hiding of text (depending on zoom level) + Support for the ToL Response XML Format + PNG, JPG, and GIF image output + ATVe: embedded ATV applet (for an example go to: <http://www.phylosoft.org/atv/examples/cnidaria.html>) + Interactive subtree colorization + Midpoint rooting function + Reading of zipped phyloXML files (.zip) + Increased rendering speed: able to handle trees with 5000 external nodes with ease, acceptable at 50000 external nodes (dynamic hiding on, Java 6 with -Xmx256m, 3.8 GHz Pentium 4). + Various bug fixes (e.g. subtree collapsing, stays on centered when zooming in or out)

Notes. Given enough memory (-Xmx512m) (and ideally Java 6 Update 10 or higher) it should be possible to display the NCBI taxonomy with 263691 external nodes (available here: <http://www.phylosoft.org/atv/examples/data/ncbi-taxonomy.xml.zip>) or the entire 'life on earth' phylogeny from the Tree of Life project with 57124 external nodes (available here: http://www.phylosoft.org/atv/examples/data/tol_life_on_earth.1.xml.zip) (NCBI taxonomy display is likely to _very_ sluggish, though).

Christian M Zmasek, PhD

czmasek@burnham.org

Software Bio++

Dear Evoldir members,

We are glad to announce the release of version 1.6 of the Bio++ libraries. Bio++ is a versatile set of C++ libraries to help with the development of applications in the field of sequence analysis, phylogenetics, molecular evolution and population genetics. Bio++ version 1.0 was released in 2005 and after continuous development reached version 1.6. The libraries are fully object-oriented, include heavy documentation, a tutorial (yet under construction) and a forum for discussion and help. They can be used on any unix/linux, mac or windows system and are distributed as free software on the following website:

<http://kimura.univ-montp2.fr/BioPP> as source files or pre-compiled libraries or packages. For linux users a debian repository and a gentoo overlay are also available.

The Bio++ program suite is a set a command line programs built against the Bio++ libraries. These programs are fully inter-operable, sharing a common syn-

tax, and include maximum likelihood analyses (phylogeny inference, ancestral rate and sequence reconstruction, etc), distance-based phylogenetic reconstruction, sequence simulation, consensus tree building, among others. Although originally developed for testing purpose, these programs contain a set of unique features, like: - Very large set of substitution models, including covarion models for nucleotides and proteins, - '+F' model series for proteins, with maximum likelihood estimation of equilibrium frequencies, - A large set of non-homogeneous models, allowing for fully user-defined models, for nucleotides and proteins. The Bio++programs suite is available from here:

<http://home.gna.org/bppsuite/> with source code, packages and standalone executables available for a large variety of systems (linux, mac and windows).

Finally, a description of the libraries and programs can be found in the following papers:

Dutheil J, Gaillard S, Bazin E, Glémin S, Ranwez V, Galtier N, Belkhir K. Bio++: a set of C++ libraries for sequence analysis, phylogenetics, molecular evolution and population genetics. BMC Bioinformatics. 2006 Apr 4;7:188. <http://www.biomedcentral.com/1471-2105/7/188> and

Dutheil J, Boussau B. Non-homogeneous models of sequence evolution in the Bio++ suite of libraries and programs. BMC Evol Biol. 2008 Sep 22;8(1):255. <http://www.biomedcentral.com/1471-2148/8/255> Best regards,

– Julien Dutheil, Ph-D [jdutheil\[at\]daimi\[dot\]au\[dot\]dk](mailto:jdutheil@daimi.au.dk) Bioinformatics Research Center (BiRC) University of Aarhus, DENMARK

julien.dutheil@gmail.com

Software DAMBE linux

Dear All,

I have compiled a new version of DAMBE for Linux which fixed some incompatibilities causing 'datatype mismatch' errors. The new installation package is DAMBEX.msi. The detailed instructions on how to run DAMBE on Linux machines can be found at

http://dambe.bio.uottawa.ca/dambe_installation_linux.asp Best Xuhua

Dr. Xuhua Xia CAREG and Biology Department University of Ottawa 30 Marie Curie, P.O. Box 450,

Station A Ottawa, Ontario Canada K1N 6N5 Tel: (613) 562-5800 ext 6886 Fax: (613) 562-5486 URL: <http://dambe.bio.uottawa.ca> Xuhua.Xia@uottawa.ca Xuhua.Xia@uottawa.ca

Software DAMBE on LINUX

Dear All,

I just tried DAMBE on LINUX with WINE and it runs fine except for most of the DAMBE functions. The computer I tried DAMBE on has ubuntu linux. Here is the procedure:

1. Install Ubuntu 8.04 (I don't know if there are newer versions, but version 8.04 is the installation CD I have). WINE 1.0 is automatically installed (but not enabled)
2. Click 'Applications|Add/Remove programs', scroll down to WINE and check the empty box to enable it. Click OK.
3. To test WINE, run the winefile file manager, i.e., open a terminal window and type 'wine winefile' + ENTER. A file manager like Windows explorer is shown. You may notice a drive C:\.
4. Now launch your web browser to http://dambe.bio.uottawa.ca/dambe_installation_instructions.asp. Right-click DAMBEXP for Windows XP and save it (DAMBEXP.msi) to a directory, e.g., /tmp
5. From winefile (the file manager), browse to the directory where you have downloaded DAMBEXP.msi and double-click it to open it. Three more mouse-clicks will have DAMBE installed to its default directory C:\program files\DAMBE.
6. To run DAMBE: From winefile (the file manager), browse to C:\program files\DAMBE and double-click DAMBE.exe to launch it.

Minor surprises:

1. the font in the display window is not courier as I have set it. I will find some way to fix it.
2. a few functions using Microsoft Foundation Class functions and dialogs do not work. These include those functions that are slow (and consequently have dialogs to indicate progress). I will fix them soon (probably by removing the dialogs).

I was told that WINE is part of nearly all Linux distributions.

Best Xuhua

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Xuhua.Xia@uottawa.ca

Software Fregene

FREGENE is a C++ program that simulates sequence-like data over large genomic regions in large diploid populations.

Unlike coalescent-based simulation tools, FREGENE works forwards-in-time which allows a wide range of demographic and selection scenarios to be implemented. Many such models are already incorporated into FREGENE, and since it is open source users can modify or extend these. Coalescent methods have difficulty incorporating large amounts of gene conversion or crossover, whereas these pose no particular problem for FREGENE. FREGENE offers a flexible model for recombination hotspots, and can readily simulate regions up to tens of Mb on a standard desktop computer.

The principle limitation of forward-in-time algorithms is computational, since the entire population must be tracked through time, not only the chromosomes that are ancestral to the observed sample. FREGENE implements many features to enhance computational efficiency, and includes a rescaling option that greatly reduces computation time at the cost of some approximation.

The program SAMPLE, that comes with FREGENE, generates samples of individuals from a FREGENE output population, together with a phenotype that depends on the genotype at one or more SNPs and may be binary (case/control) or Gaussian. SAMPLE can also summarize the SNP minor allele frequency (MAF) spectrum and calculate r^2 values for SNP pairs.

The website <http://www.ebi.ac.uk/projects/-BARGEN/> gives source code, documentation and example datasets. See also:

1/ Chadeau-Hyam M, Hoggart CJ, O'Reilly PF, Whittaker JC, De Iorio M, Balding DJ, Simulation of realistic sequence-level data in populations and ascertained samples. BMC Bioinformatics 2008, 9:364.

2/ Hoggart CJ, Chadeau-Hyam M, Clark TG, Lam-

pariello R, Whittaker JC, De Iorio M, Balding DJ (2007) Sequence-level population simulations over large genomic regions. Genetics 177: 1725-1731, 2007, doi: 10.1534/genetics.106.069088

e-mail: d.balding@ic.ac.uk

Software Generalized-Treefinder

One more unpaid TREEFINDER version is online at:

www.treefinder.de TREEFINDER is a software to compute phylogenetic trees from molecular sequences.

New features are:

- generalized partition model, which - includes both proportional and separate model - resampling of calibration times - improved TL manual

The generalized partition model covers the assumptions of both proportional and separate edge lengths among the data partitions, and still a few possibilities more. Partitions can be now organized in partition groups assuming a separate set of edge lengths for each partition group, but assuming proportional edge lengths within a partition group. In a multi-gene framework, for example, one can have a separate set of edge lengths for every gene, and also have separate partition rates for the codon positions.

Of course, the hypothesis testing and everything has been updated to work with the generalized partition model. The groupwise edge lengths can be extracted from the reports and saved to a file.

There is a new way of dealing with calibration time intervals: instead of optimizing the times within the specified intervals, one can now resample them from the intervals in a bootstrap procedure to compute confidence limits of divergence times, even with one sample of edge lengths of the input tree.

Finally, I added a few more words to the TL manual.

Please note that I am still not being paid for my work and that I had no income for years. Seems that nobody here finds TREEFINDER worth offering me a compensation, a wage, a position, a perspective. Seems that I must now change my strategy.

Gangolf Jobb

Gangolf Jobb <gangolf@treefinder.de>

Software SumTrees

Folks,

This is to announce the availability of SumTrees, a cross-platform Python program to summarize non-parameteric bootstrap or Bayesian posterior probability support for splits or clades on phylogenetic trees.

For more information, including download, installation and usage instructions (and tutorial) please visit the SumTrees page at:

<http://www.jeetworks.org/programs/sumtrees>

Archives of the release source code are available on Sourceforge here:

<http://sourceforge.net/projects/dendropy/> The Git repository of the source code can be cloned by entering:

```
git clone http://jeetworks.org/files/repositories/-dendropy.git - jeet
```

Jeet Sukumaran

Division of Herpetology Department of Ecology and Evolutionary Biology / Natural History Museum and Biodiversity Research Center University of Kansas Dyche Hall 1345 Jayhawk Blvd Lawrence KS 66045-7561

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KU Page: <http://people.ku.edu/~jeet/> KU Herpetology: <http://nhm.ku.edu/herpetology/> Photograph Galleries: <http://jeet.smugmug.com/> HerpWatch Philippines: <http://www.herpwatch.org/>

Frogs of the Malay Peninsula: <http://frogweb.org>
jeet@ku.edu jeet@ku.edu

Solicit critics and comments

Dear All:

In 2007, I have published a paper in GENETICS titled by Gu, X (2007) Evolutionary framework for protein sequence evolution and gene pleiotropy, Genetics 175:1813-1822.

Since this paper was heavy in statistics/math, we recently wrote a follow-up manuscript with much less

math but emphasized the role of gene pleiotropy in molecular evolution as well as preliminary data analysis. This manuscript was rejected by MBE. Since many reviewer's questions were related to My Genetics- 2007 paper as a theoretical ground, I think it would be very helpful to solicit any critics and comments in public. Then, we may have a more balanced, objective discussion in our revised manuscript.

Please sent your comments or critics directly to Xun Gu at xgu@iastate.edu. Later, I will summarize all comments I receive and our brief reply.

Thanks advance

Xun Gu Iowa State University

xgu@iastate.edu

SouthAfrica volunteers EvolutionGroupLivingMammals

Volunteers needed as field assistants for the project:

Evolution of Group-Living in small Mammals in the Succulent Karoo of South Africa

Project: We study the evolutionary reasons 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 with a BSC/Vordiplom or equivalent 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, sometimes over 40C during days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small group.

Work of field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field; maintenance and cleaning of the research station.

Confirmation letter: Students get a letter of confirma-

tion 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 750 (around 70 Euro) must be paid for accommodation at the research station. Students must buy their own food etc in Springbok (costs of about R 1500 or 140 Euro/month). Including extras, you should expect costs of about 250 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: Currently we are looking for two volunteers to start in November / December, and two volunteers to start in January. Applications for other periods are possible as we are permanently looking for volunteers. 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@zool.uzh.ch.

More information under www.strippedmouse.com Contact via e-mail: carsten.schradin@zool.uzh.ch

Dr. Carsten Schradin Research Assistant, Zoological Institute, 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 and curtains quickly added to our daily field work activities.

It was never boring in Goegap! There was always something to do: studying the striped mouse, listening to the interesting and funny stories every member could tell or just enjoying the time while reading a book or writing e-mails to friends to tell them about this unique experience. Here, the

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

Spain FieldAssist SocialInsects

We are seeking two VOLUNTEER FIELD ASSISTANTS, for 2-3 months starting March 2009, to help with a social insect behavioural ecology field study in southern Spain. We work on an unusual population of paper wasps (*Polistes*), which live in small colonies on cactus in Andalusia, and the project aims to compare the direct and indirect benefits of helping others to breed. The work will involve censusing behaviour, marking colonies and carrying out video observations, providing excellent first-hand experience of behavioural ecology fieldwork within a thriving research group. Our profile can be found at http://www.lifesci.sussex.ac.uk/research/-social_evolution/index.html The successful applicants must have a fitness level suitable for fieldwork, be prepared to work hard and have an enthusiastic interest in evolutionary biology. A driving license and at least

one years driving experience is essential; knowledge of Spanish would be useful but is not vital. Because the work involves recording colour marks on individual animals, the job would not be suitable for someone who is colour-blind.

Accommodation will be in a flat shared with other members of the research group with shower, cooking facilities, etc., and is in an attractive coastal town with nice beach. The field assistants will be part of a team with one postdoctoral researcher and at least one other researcher. Air fare (from the UK) and accommodation expenses will be provided, so each applicant will need to pay only their own food/personal expenses, which are relatively cheap in Spain.

Informal enquiries should be sent to e.leadbeater@sussex.ac.uk. Applicants must be available for interview at Sussex University, and review of applications will begin immediately (end October 2008) and continue until the positions are filled. Send a covering letter and CV, including contact details (email addresses and telephone numbers) for 2 referees. Email as a single Word document or pdf to:

Dr. Elli Leadbeater (e.leadbeater@sussex.ac.uk) and copy to Prof. Jeremy Field (j.field@sussex.ac.uk) Department of Biology and Environmental Science University of Sussex

e.leadbeater@sussex.ac.uk e.leadbeater@sussex.ac.uk

TajimaD analysis

Hi to everybody, I have a question about the Tajima's D analysis implemented in DNAsp: in some papers (for instance Wheat et al. 2006, Mes et al. 2006) I found that the authors use the tajima's D analysis considering only the synonymous sites, but I don't really find the way to do it. Is there someone who knows how to do it?

All answers would be very helpful.

Erica

Dr. Erica Bortolotto Biology Dept University Of Padova Via G. Colombo 3 I-35100 Padova Italy e-mail bortolotto@unisi.it Tel 0039 049 8276222 Fax 0039 049 8276209

Erica Bortolotto <bortolotto@unisi.it>

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Erica Bortolotto <bortolotto@unisi.it>

Teaching animations simulations

Hi all,

I am wondering whether there is general interest among the teaching community in alternative tools to teach population genetics and evolutionary theory? It seems that many of the ideas that we strive to explain are very intuitive but many students have difficulty getting past the math and jargon. I have been thinking that Flash animations and user friendly GUI's for some of the emerging evolution simulation programs would be a good complement, but before deciding whether to commit time to this endeavour, I thought I would see whether my feelings were more widely shared.

I would greatly appreciate any comments or ideas you have,

Sincerely, Sam Yeaman

Teaching animations simulations answers

Hello Evoldir,

I sent out a message requesting feedback on whether animations/simulations were useful for teaching population genetics / evolutionary theory (pasted below). I've received over 30 responses so far, all of which suggested that these teaching aids would be very useful along with the traditional teaching of mathematical and verbal concepts. A few people commented that deterministic processes are often more easily understood than stochastic processes, so perhaps effort should focus there. One person noted that unless animations/simulations were directed at the sources of student misconceptions, they would be unlikely to help much, but that if this was the case, they could be useful. In general, there was lots of enthusiasm and some very useful comments and suggestions. I have included copies of the responses that pointed out existing tools and have included the contact information of the respondent when they were directly associated with the development of a publicly available tool.

Many thanks to all who took the time to respond.

Sam Yeaman Department of Zoology University of British Columbia yeaman@zoology.ubc.ca

ORIGINAL MESSAGE:

Hi all,

I am wondering whether there is general interest among the teaching community in alternative tools to teach population genetics and evolutionary theory? It seems that many of the ideas that we strive to explain are very intuitive but many students have difficulty getting past the math and jargon. I have been thinking that Flash animations and user friendly GUI's for some of the emerging evolution simulation programs would be a good complement, but before deciding whether to commit time to this endeavour, I thought I would see whether my feelings were more widely shared.

I would greatly appreciate any comments or ideas you have,

Sincerely, Sam Yeaman

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Check out www.bio-doc.org. This is a collection of an-

imations/simulations and other digital media that can contribute to teaching general biology. It is searchable, by keyword or by topic. For instance, under evolution we have 15 items that we found online:

<http://uts.cc.utexas.edu/~jeac002/index.php?rm=search&txtUnit=Evolution&txtTopic=0&txtSearch> If you send a follow-up post to evoldir listing responses to your request, I'd appreciate your telling colleagues about this service, and suggest that if anyone has suitable media, to submit it for inclusion to bio-doc.

Dr. Daniel I. Bolnick Assistant Professor Section of Integrative Biology One University Station C0930 University of Texas at Austin Austin, TX 78712

512-471-2824 fax 512-471-3878 danbolnick@mail.utexas.edu

####

Alan Lemmon has a website for some such simulations. <http://www.evotutor.org/> ####

I saw your Evoldir posting and wanted to share some thoughts.

First off, I find that simulations are an absolutely indispensable tool for teaching abstract concepts in population genetics and molecular evolution. Maybe the concepts are not really intuitive at all, that is why all of us spent many years studying to reach the point where they are intuitive to us. Having students truly grasp the ideas of dynamic processes such as drift and selection requires getting students to use teaching tools that are themselves dynamic and also interactive.

My solution was to write a book, Population Genetics, published by Wiley-Blackwell that will be available this winter. The book is structured around numerous "Interact boxes" that guide students through interactive simulations to teach individual concepts. I also co-authored a package of simulation programs that teach fundamental population genetics concepts. The software is called PopGene.S² (popgenes-squared).

More details on the book can be found at my own web page at http://www9.georgetown.edu/faculty/hamiltm1/Text_book.html. The simulations will soon be available from <http://www.genedrift.org/popgenes.php>. I also have used the "Spreadsheet exercises in ecology and evolution" book by Donovan and Weldon for some labs. I find the book a good resource and I have also designed other Excel simulation. One danger is that the students sometimes get too focused on Excel and can miss the bigger biological points.

The Populus package by Don Alstad et al. is also very useful for some evolution and genetics concepts and lots of ecology concepts.

There are actually some useful programs and animations out there. However, they vary a lot in quality and interface. I would certainly encourage you to think about new simulations and animations to help

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

Triploid data analysis

Dear All,

I am a PhD student working on the hybrid complex of *Pelophylax esculentus* (*Rana esculenta*). This complex consists of diploid and triploid individuals. I am mainly working with microsatellite data and want to perform assignment analyses, genetic diversity and distances. However, most of the software currently available cannot handle triploidy. Is there someone who knows software that can perform assignment analyses with a mixed diploid/triploid dataset? And how would I best recode my data?

All answers would be helpful.

Greatly appreciated,

Griet Holsbeek

– Drs. Griet Holsbeek Katholieke Universiteit Leuven Laboratory of Aquatic Ecology Ch. de Beriotstraat, 32 B-3000 Leuven Belgium Phone: +32 16 32 39 66 (secretariat) or +32 16 32 45 72 Fax: +32 16 32 45 75 E-mail: griet.holsbeek@bio.kuleuven.be website: <http://www.kuleuven.ac.be/bio/eco/index.php> Disclaimer: http://www.kuleuven.be/cwis/email_disclaimer.htm
Griet Holsbeek <Griet.Holsbeek@bio.kuleuven.be>

Triploid data analysis answers

Dear All,

I have posted the following question on evoldir:

“I am a PhD student working on the hybrid complex of *Pelophylax esculentus* (*Rana esculenta*). This com-

plex consists of diploid and triploid individuals. I am mainly working with microsatellite data and want to perform assignment analyses, genetic diversity and distances. However, most of the software currently available cannot handle triploidy. Is there someone who knows software that can perform assignment analyses with a mixed diploid/triploid dataset? And how would I best recode my data?

All answers would be helpful.”

Because I received a lot of emails from people with the same problem, I will forward all the answers I have received. This way I hope I may help somebody else. The last email (on the bottom of this email) contained the solution for my assignment problem.

Received answers:

Dear Griet,

I have a similar problem, but at the same time not a very good answer to it, what I recently tried was to use “popdist” <http://genetics.agrsci.dk/~bernt/-popgen/> with this program each allele gets its own code and it calculates genetic distances and identity. In my case I received a distance matrix which I input into QuickTree (<http://mobyle.pasteur.fr/cgi-bin/-MobylePortal/portal.py?form=quicktree>) to get a tree in New Hampshire format which then could be transferred in any tree viewing software.

I am sure this is not the most sophisticated answer and just a try, but I would be very interested in the answer you receive and to see how other people did it.

Best regards Marie

You might have a look at a paper by Kloda et al published in *Heredity* which makes use of an *Fst* analogue suitable for microsat data from polyploids to do a PCO type analysis.

Heredity (2008) 100, 253–260;
doi:10.1038/sj.hdy.6801044

Using principle component analysis to compare genetic diversity across polyploidy levels within plant complexes: an example from British Restharrow (*Ononis spinosa* and *Ononis repens*) J M Kloda¹, P D G Dean², C Maddren¹, D W MacDonald¹ and S Mayes³

See here: <http://www.nature.com/hdy/journal/v100/-n3/abs/6801044a.html> Richard Nichols Professor of Genetics <http://www.sbcs.qmul.ac.uk/people> Hallo Griet! I would be very interested in the answers! Could you please forward to me as well??? Thank you very much!!!

Marta

Hi,
see

Meirmans, P.G., E.C. Vlot, J.C.M. Den Nijs & S.B.J. Menken: (2003), Spatial ecological and genetic structure of a mixed population of sexual diploid and apomictic triploid dandelions, *Journal of Evolutionary Biology* 16 p.343-352.

Meirmans, P.G., & P.H. Van Tienderen: (2004), GENOTYPE and GENODIVE: two programs for the analysis of genetic diversity of asexual organisms, *Molecular Ecology Notes* 4 p.792-794.

and

<http://www.bentleydrummer.nl/software/software/-GenoDive.html> <http://www.bentleydrummer.nl/software/software/Other%20software.html> –

Darren Obbard Institute of Evolutionary Biology Ashworth Labs Kings Buildings University of Edinburgh, UK darren.obbard@ed.ac.uk Lab: 0131 651 3614 – Office [Note Change!]: 0131 650 8659 Mobile: 07968 838 635 – Home: 0131 466 0341 <http://www.biology.ed.ac.uk/research/groups/obbard/> The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Hello Griet,

I do not have the answer for your question but I'm facing the same problem with microsats in diploid/triploid

apple trees. So I would be very interested in any program for analysis. Could you please forward the answers or some of them to me? thank you very much, regards

Andrea Frei Molecular Diagnostics ACW Agroscope Postfach 8820 Wädenswil Switzerland

I saw your query on triploid data analysis on evoldir. You should check the R package 'adegenet'. I don't know much about it, but I heard that this package deals with all levels of ploidy. <http://adegenet.r-forge.r-project.org/> Don't hesitate to contact the author: jombart@biomserv.univ-lyon1.fr I know him and I'm sure he could help you to solve this problem.

Good luck, Perrine

–

PELOSSE Perrine CNRS UMR 5558 - Laboratoire "Biométrie et Biologie Evolutive" Université Claude Bernard - Lyon 1 Equipe "Ecologie du Comportement et Dynamique des Populations" 43 bd du 11 novembre 1918 69622 Villeurbanne cedex - France tel : +33 (0)4 72 43 12 86

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

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BaselU Bioinformatics

Postdoc position in microbial bio-informatics and evolution

is available in the division of Evolutionary Biology, Institute of Zoology at Basel University, Switzerland. I am looking for a highly motivated post-doc with interest in bio-informatics and evolutionary genomics of pathogens. A background in bio-informatics and genomics is essential. The position is funded to work on the microparasites (bacteria and microsporidians) of *Daphnia* and includes genome assembly and annotation, SNP detection, and comparative genomics. Previous experience with the specific study system (*Daphnia* and its microparasites) is not required. Excellent written, verbal, and interpersonal skills, a good work ethic, and the ability to think creatively and critically are desired. Starting dates are flexible, from November 2008 onwards. The position is initially for 1 year but can be extended repeatedly.

The post-docs will be part of Dieter Ebert's group working on the evolution of host-parasite interactions. Details about the group can be found under: <http://evolution.unibas.ch/> Please send application by E-mail to Dieter Ebert (dieter.ebert@unibas.ch). Applications (1 pdf file, please) should include a CV, a list of publications and a 1 page description of your research interests and motivation. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Applications received before 30. October

2008 will be given full consideration. Interviews will be held as soon as possible in November.

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

dieter.ebert@unibas.ch dieter.ebert@unibas.ch

BiK-F Frankfurt Biodiversity

The Biodiversity and Climate Research Centre (BiK-F) has recently been founded by the Senckenbergische Naturforschende Gesellschaft, the Goethe-Universität Frankfurt am Main, and additional partners. It is funded by the Hessian State Initiative for the Development of Scientific and Economic Excellence (LOEWE). The mission of the Centre is to carry out internationally outstanding research on the interactions of biodiversity and climate change at the organism level. The Project Area D "Laboratory Centre" invites applications for the position of a

Postdoctoral Researcher (Ref. TP D 5.1 #D04)

The applicant will be responsible for a project aiming to identify candidate genes playing key roles for climate adaptation in various invertebrate taxa (*Daphnia*, *Chironomus*, *Radix*). The project aims at identifying genes which are positively selected in response to climatic conditions. To this end, genomic resources (EST bank, micro-array) for *Radix* have to be established; for

the other taxa, these resources are already available. Furthermore, the technical implementation of the high throughput laboratory is part of the responsibilities. Participation in university teaching is possible, while the acquisition of external research funding is highly desired.

The applicant should hold an earned Ph.D. in molecular biology, preferably with a strong focus on transcriptome analysis. She or he should already have experience with high throughput DNA-sequencing technologies and should be interested in ecological and climate change issues. Applicants should have a strong publication record. Very good written and oral English language skills, willingness to learn at least basic German and interest in joining a multidisciplinary research team are required, as well as proven organising abilities.

The Bio+C Research Centre advocates gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference.

The contract shall start as soon as possible and will initially be restricted until December 31, 2010 with a possible extension being subject to personal performance and availability of funds. The duty station will be Frankfurt am Main, Germany.

Please send your application by mail or e-mail, including a detailed CV, 3 references, a list of publications and up to five selected re/e-prints to

Prof. Dr. Dr. h.c. V. Mosbrugger, Scientific Coordinator Biodiversity and Climate Research Centre, Senckenberganlage 25, D-60325 Frankfurt am Main, Germany. E-mail: vmosbrugger@senckenberg.de

For enquiries about the position and the contract conditions please write to Prof. Dr. B. Stribny (E-mail: bernhard.stribny@senckenberg.de) and for scientific enquiries to PD Dr. M. Pfenninger (E-mail: pfenninger@bio.uni-frankfurt.de) or Prof. Dr. J. Oehlmann (E-mail: oehlmann@bio.uni-frankfurt.de).

– PD Dr. Markus Pfenninger Abt. Ökologie & Evolution J.W.Goethe-Universität BioCampus Siesmayerstraße D 60054 Frankfurt am Main Germany

Tel.: ++ 49 69 798 24714 Fax : ++ 49 69 798 24910 eMail: Pfenninger@bio.uni-frankfurt.de <http://user.uni-frankfurt.de/~markusp> Markus Pfenninger <Pfenninger@bio.uni-frankfurt.de>

CornellU 2 MicrobialEvolutionaryGenomics

Two Post-doctoral positions in microbial evolutionary genomics at Cornell University

CANDIDATES ARE INVITED TO APPLY for two post-doctoral positions at Cornell University, both supported by a new 5-year NIH grant entitled, “Evolutionary genomics and population genetics of pathogenic streptococci.” One position will be in the laboratory of Michael Stanhope and the other will be jointly supervised by Adam Siepel and Carlos Bustamante. The Stanhope, Siepel, and Bustamante laboratories will interact closely with each other and with the laboratory of Robert Burne, a collaborator at the University of Florida, in meeting the goals of this research project.

The bacterial genus *Streptococcus* includes several important human pathogens. The goal of this project is to obtain a thorough understanding of the adaptive genomic differences within and between the taxa of this genus. The project will involve the latest DNA sequencing technologies and state-of-the-art methods for detecting selection in both genes and noncoding functional elements. It is expected to provide an unprecedented level of detail on molecular adaptation and molecular evolution for taxa of this genus. It will also provide the first thorough assessment of the role of lateral gene transfer (LGT) and positive selection in the diversification of a group of closely related bacterial taxa, as well as an improved understanding of the role of LGT in bacterial species innovation and pathogenesis.

A description of each of the postdoctoral positions follows:

Laboratory of M. Stanhope: We are looking for an evolutionary computational biologist, well versed in modern evolutionary biology theory, and computational analysis, with some basic bioinformatics skills such as R and Perl programming. An added bonus would be knowledge of basic microbiology issues. One of the principal roles of this person would be to conduct comparative evolutionary analysis of the bacterial genome sequence data that we are generating using new high throughput sequencing technologies such as 454, Solexa, and OpGen, both at the intraspecific and interspecific levels. In addition to these analyses, this

individual would need to collate and assemble the new genome sequence data, as well as assist in guiding some of the wet lab work associated with genome closing of select strains. Salary and benefits will be competitive, as well as commensurate with the candidates level of expertise and value to the laboratory.

Laboratories of A. Siepel and C. Bustamante: We seek a computational biologist experienced in evolutionary genomics and/or population genetics who will focus on the development of novel analytical methods. Areas of particular interest include methods for detecting non-coding functional elements, improved methods for detecting positive selection, methods for characterizing LGT, combined phylogenetic and population genetic methods for detecting selection, and improved methods for detecting selection in the presence of changing population sizes. The candidate will be encouraged to develop broadly applicable methods, but to give special consideration to the unique opportunities presented by the rich data generated in this project. While methods development will be a major focus, the candidate will also be expected to participate in data analysis and infrastructure development. The ideal candidate will be enthusiastic, highly motivated, and independent, will have both a serious interest in molecular biology and genetics and first-rate skills in mathematics and computing, and will have a strong record of accomplishment in research. For more information about the Siepel and Bustamante labs see <http://compgen.bscb.cornell.edu/~acs/> and <http://bustamantelab.cb.bscb.cornell.edu/>. About Cornell

Cornell is home to a large, active community of researchers interested in evolutionary genomics, population genetics, and other areas of mathematical and computational biology. General information on postdoc life at Cornell is available from the Office of Postdoctoral Studies at Cornell.

To Apply

Submit (PDFs preferred) a CV, a short (one-two page) description of research interests and experience, and contact information for three references by e-mail to mjs297@cornell.edu (Stanhope position) or acs4@cornell.edu and cdb28@cornell.edu (Siepel/Bustamante position). Informal inquiries are welcome.

Michael Stanhope Adam Siepel Carlos Bustamante
Cornell University Ithaca, NY

Cornell University is an affirmative action/equal opportunity employer.

Adam Siepel <acs4@cornell.edu>

CornellUniv AmphibianImmunity

Postdoctoral Researcher in Evolution of Amphibian Immunity

A postdoctoral position is available in the Zamudio Lab, Department of Ecology and Evolutionary Biology, Cornell University. This position is funded by an NSF Population Biology grant to study the evolution of MHC genes in Central American amphibian populations recently exposed to the chytrid fungus *Batrachochytrium dendrobatidis*.

Primary responsibilities of this position include: (1) conducting laboratory research to clone and characterize MHC class I/II genes and neutral genes in non-model amphibian taxa and measure selection in populations that have suffered disease-related declines, (2) analyzing data and writing manuscripts, (3) contributing to preparation of grant proposals for future work, and (4) coordinating projects of undergraduate students involved in similar research in the lab.

To qualify, applicants should have a Ph.D. in evolution, molecular biology, genetics, or related field; demonstration of strong laboratory and writing skills; a record of consistent and high-quality publications; and the ability to work independently. Preference will be given to applicants who have experience in molecular biology, and specifically in the complexities of laboratory and computational techniques for working with MHC or other gene families.

Starting salary is \$38,000, plus Cornell University Endowed College benefits. Funds are available for one year, and renewable for a second pending satisfactory progress. The position is available starting May 1, 2009; starting date is negotiable. Review of applications will begin January 12, 2009, and continue until a suitable candidate is found. Cornell University is an equal opportunity, affirmative action educator and employer. Applications from women and minorities are encouraged.

To apply, please send cover letter, CV, a statement of research interests/experiences, and names and contact information for three references that are familiar with your work. Applications (PDF format preferred) should be e-mailed to kelly.zamudio@cornell.edu

Dr. Kelly Zamudio Department of Ecology and Evolutionary Biology Cornell University E209 Corson Hall

Ithaca, NY 14853-2701.

krz2@cornell.edu krz2@cornell.edu

CSIRO Canberra PlantPopulationGenetics

Applications are invited for a three year OCE Postdoctoral Fellowship in the restoration of resilient native vegetation in agricultural landscapes using ecological and genetic approaches. The position will be based at CSIRO's largest research centre, Black Mountain Laboratories Canberra, Australia.

The successful applicant will be a biologist with training in population genetic theory and practice who also understands plant reproductive ecology. Familiarity with ecological restoration would also be helpful. You will be responsible for research on model plant species in broad and heterogeneous landscapes, focusing on: 1). the scale and intensity of gene flow, 2). variation in plant reproduction, 3). the composition, abundance and activity of pollinator and seed disperser communities. Then, to synthesise findings, the applicant will develop models of these landscape scale processes, with the help and collaboration of other researchers. You will join a multidisciplinary and highly collaborative team with broad research foci including pollination biology, plant-animal interactions, and the use of genetic tools to understand landscape processes such as gene flow and weed invasion.

Candidates should have obtained a PhD in ecology, population genetics, plant reproductive biology, vegetation restoration or a related field and on commencement of the Fellowship, have a maximum of three years relevant work experience since conferral of their doctorate.

Full details:

https://recruitment.csiro.au/asp/-job_details.asp?RefNo=2008%2F1067

Linda.Broadhurst@csiro.au

DukeU PlantEvolutionaryGenet

A Postdoc in PLANT EVOLUTIONARY GENETICS

is available in the Mitchell-Olds lab, Department of Biology and Institute for Genome Sciences and Policy, Duke University. We seek a highly motivated colleague with laboratory experience in molecular methods and a strong background in population, quantitative, and/or ecological genetics. With funding from NIH and NSF we are examining the evolutionary significance of a cloned QTL controlling insect resistance in relatives of Arabidopsis, as well as QTL and association studies of flowering differences across climatic gradients in the Rocky Mountains.

Salary is competitive and support is available for several years. Women and members of under-represented groups are especially encouraged to apply. Duke University is an Equal Opportunity/Affirmative Action Employer.

A start date in winter 2009 is preferred, although a later start date might be considered for exceptional candidates. Applicants should submit a curriculum vitae and a brief summary of current research and future research interests. Applicants should also arrange for three letters of recommendation to be sent to Thomas Mitchell-Olds (tmo1@duke.edu).

Thomas Mitchell-Olds, Professor Box 90338 Institute for Genome Sciences & Policy Department of Biology Duke University Durham, NC 27708

Express mail address: Duke University FFSC room 3335 Durham, NC 27708

Phone: 919-668-1635 Fax: 919-660-7293 E-mail: tmo1@duke.edu

Lab web page: <http://www.biology.duke.edu/mitchell-olds/> tmo1@duke.edu tmo1@duke.edu

DukeU SystemsBiology

POSTDOCTORAL POSITIONS in the Duke University Center for Systems Biology.

The DCSB is seeking highly motivated postdoctoral candidates with experience in computational and/or mathematical approaches relevant to the understanding the function of biological systems. Positions are available in several collaborative research groups investigating a broad range of topics in systems biology with a focus on network control. Currently, there are six projects investigating various aspects of cell cycle control, development, and network evolution (see <http://>

/www.genome.duke.edu/centers/csb/ for project summaries and faculty). All appointees will be affiliated with the Duke Center for Systems Biology, a cross-school, campus-wide academic center that is also one of the NIH-supported National Systems Biology Centers. Highly qualified candidates will compete for the DCSB Postdoctoral Fellow Award. All Fellow Awards provide stipend support for one year, with the expectation of renewal for a second year.

Women and members of under-represented groups are especially encouraged to apply. U.S. citizenship is not a requirement; however, international scholars should contact us before applying because of visa restrictions. Candidates should submit a curriculum vitae, a brief summary of current research and future research interests, and reprints of 2 or 3 key publications at www.academicjobsonline.org. Applicants should also arrange for 3 letters of recommendation to be uploaded to this website.

Duke University is an Equal Opportunity/Affirmative Action Employer.

– Dr. Sayan Mukherjee phone: 919 684-4608 Assistant Professor fax: 919 668-0795 Computational Biology, Statistics, www.stat.duke.edu/~sayan & Computer Science Duke Scholar in Genomic Medicine Duke University

sayan@stat.duke.edu

The School of Biological Sciences is seeking to appoint a Postdoctoral Research Associate to provide research and technical support as a participant in a project on the population genetics and ecology of selected elements of the flora of mound springs in the far-North of South Australia. The appointee will be expected to conduct field work and also to examine the population genetics of selected plant taxa using molecular markers.

The position is available immediately on a fixed term, full-time basis for two years with a possible extension depending on funding. The University is keen to obtain the services of the successful applicant by late 2008/early 2009.

Closes: Monday 27 October 2008.

Applications must address the specified selection criteria. Detailed position information (including selection criteria) and essential information for intending applicants are available via the Jobs@Flinders website: <http://www.flinders.edu.au/employment>.

Previous applicants for this position will need to submit a new application in order to address the amended position description.

Applications should be lodged via the Jobs@Flinders website: http://www.flinders.edu.au/employment/-employment_home.cfm Duncan Mackay <duncan.mackay@flinders.edu.au>

FlindersU PlantPopulationGenetics

Hello, please find below a new advertisement for a postdoctoral research associate to work with us on the population genetics of mound spring plants in South Australia. We would be grateful if you could place the advertisement below on your EvolDir web site.

Thanks, Molly Whalen & Duncan Mackay

-- Dr. Duncan Mackay School of Biological Sciences Flinders University GPO Box 2100 Adelaide S.A. 5001 AUSTRALIA

Phone 61-8-82012627 FAX 61-8-82013015

http://www.scieng.flinders.edu.au/biology/people/-academic/mackay_d/index.htm 1

RESEARCH ASSOCIATE Research Level A or B Level A: \$52,800 to \$64,308 Level B: \$67,696 to \$70,234

Reference No: 8222

GhentU PlantSystemsBiol

The Bioinformatics and Evolutionary Genomics research group, part of the VIB Department of Plant Systems Biology, located in Gent, Belgium, is looking for an enthusiastic and highly motivated

Postdoctoral researcher

This 3 year full-time position is part of a large and ambitious project between the Department of Plant Systems Biology, Gent University, and CropDesign BASF.

The ultimate goal of the project is: - To identify candidate maize genes involved in various plant growth and developmental processes. Many transcriptomic experiments under different growth conditions will be performed, and the results will be analyzed and integrated using a systems biology approach. - The successful candidate will be responsible for the bioinformatics part of the project and will interact closely with the other partners involved.

Profile

- Ideal candidates for this position should have a PhD in bioinformatics with a strong publication record, and should be familiar with microarray data processing and the statistical analysis of biological data. - A good knowledge of biological processes and pathways and a strong interest in plant biology will be an advantage. - The candidate should be fluent in English and have good communication and interpersonal skills.

Interested candidates should submit an electronic copy of their resume or curriculum vitae, and a cover letter describing their qualifications and relevant experience to yves.vandeppeer@psb.ugent.be

- Yves Van de Peer, PhD.

Professor in Bioinformatics and Genome Biology Group
Leader Bioinformatics and Evolutionary Genomics VIB
Department of Plant Systems Biology, UGent Ghent
University Technologiepark 927 B-9052 Ghent Belgium

Phone: +32 (0)9 331 3807 Cell Phone: +32 (0)476 560 091 Fax: +32 (0)9 331 3809 email: yves.vandeppeer@psb.ugent.be

<http://bioinformatics.psb.ugent.be/> Yves Van de Peer
<yves.vandeppeer@psb.ugent.be>

HarvardU TheoPopGenet

POSTDOCTORAL POSITION THEORETICAL POPULATION GENETICS.

Harvard University invites applications for a postdoctoral fellowship in theoretical population genetics to work with David Haig on the evolution of genomic imprinting. The successful candidate will be part of a team working on a Howard Hughes Medical Institute Collaborative Innovation Award headed by Catherine Dulac (Imprinted genes as central regulators of brain function and animal behavior). This is an interdisciplinary collaboration involving work in neurobiology, behavior, bioinformatics, and evolutionary theory. Candidates should feel comfortable in developing two-locus, multiple-allele models with two sexes. Candidates should email their CV, a summary of research interests, and the names of three references to David Haig (dhaig@oeb.harvard.edu). The position has tenure for up to four years. The salary will be greater than NIH guidelines and commensurate with experience and expertise. Review of applications will begin immediately

and continue until the position is filled. Harvard University is an equal opportunity/affirmative action employer.

- David Haig

Professor Department of Organismic and Evolutionary Biology, Harvard University, 26 Oxford Street, Cambridge MA 02138

Phone: 617-496-5125 Fax: 617-495-5667

David Haig <dhaig@oeb.harvard.edu>

Hobart EvolutionModelling

Postdoctoral Fellow - Evolution and Genetic Ecological Modelling CSIRO Marine and Atmospheric Research, Hobart

\$65K - \$72K plus Superannuation Ref. No. 2008/1228

We are seeking to recruit an active scientist to play a key role in research supporting ecosystem-based management of Australia's coastal and marine environment. The successful applicant will work in a team conducting research into the management of the coastal and off-shore waters of Australia in relation to activities such as fishing, other extractive industries, tourism, environmental conservation, and urban and rural development.

The approach is based on a scientific understanding of the functioning and dynamics of ecological systems and the interactions of multiple human activities within them. The work will focus on dynamic modelling of evolutionary change under exploitative selection and ecosystem change (as part of adaptive modelling of natural resources and the effects of large scale changes to marine ecosystems) and will integrate with existing end-to-end (whole of system) marine ecosystem models. It requires PhD equivalent understanding of marine ecological (or population) modelling (and the representation of genetic variation), and a solid understanding of model uncertainty. Understanding of key marine processes (such as dispersive movements, physiological traits, and trophic and habitat-related dynamics) would also be very useful.

This position will provide the successful applicant with a key position within a group with an international reputation in ecosystem modelling and management related science. It will also provide opportunities to play a key role in the development of a strong program of research within a multi-disciplinary group of about 40

scientists in this vital area of Australia's marine research. With career development, the appointee will take increasing responsibility for planning aspects of the research, managing the project, developing collaborations, and maintaining a very high quality of science delivery to clients and stakeholders.

For selection documentation and details on how to apply visit www.csiro.au/careers or call 1300 301 509.

"Huen, Kelly" <Kelly.Huen@hlablaze.com.au>

IFREMER France TheoreticalGenetics

A postdoctoral position is available at the Fisheries Unit of the French Institute for the Exploitation of the Sea (IFREMER, Port-en-Bessin, France). The successful applicant will be expected to set up new methods to assess temporal quantitative genetic differentiation within wild exploited populations by:

- (i) developing statistical methods to estimate temporal quantitative genetic differentiation within natural populations (temporal Qst) based on regressing (generalized linear mixed models) temporal phenotypic differentiation on temporal differentiation at neutral markers (temporal Fst) according to the same principle as already existing methods for spatial differentiation (Ritland, 2000);
- (ii) extending this method to include environmental covariates as potentially responsible for a phenotypically plastic component in temporal phenotypic differentiation; and
- (iii) applying the developed methods to two case studies: growth and maturation of North sea and Channel cod and sole.

The position is co-funded by the European Research Network /FinE/, /F/isheries-/in/duced /E/volution (<http://www.iiasa.ac.at/Research/EEP/FinE/-Home.html>) and IFREMER. The /FinE/ project is set up to investigate the prevalence of fisheries-induced evolutionary changes in life-history traits of exploited fish stocks in European and North American waters. The aims are to unravel the underlying mechanisms of changes ranging from the phenotypic to the genetic level, to evaluate their consequences on population and fisheries dynamics, and to provide recommendations for evolutionarily enlightened management. This objective necessitates the development and application of novel

methodological tools for investigating field data both at phenotypic and genetic levels, together with the setup of relevant experiments on model species and the careful construction of theoretical models suitable for complementing field data analyses and for evaluating managerial options. More precisely, the present position is intimately related to Task 2.4 of WorkPackage 2 on Genetic analysis (<http://www.iiasa.ac.at/-Research/EEP/FinE/Tasks.html#wp2>). The project is coordinated by the International Institute for Applied Systems Analysis (Laxenburg, Austria) and relies on 18 teams spread in 15 European countries and Canada.

Applicants should have a PhD in theoretical population/quantitative genetics or in theoretical evolutionary ecology with a strong background in modelling and/or theoretical statistics. Some knowledge in life history theory and/or fish ecology and/or fisheries would be an advantage. According to IFREMER's fellowship rules, applicants must be less than 35 years old on December the 31st, 2008, own their PhD since less than 36 months and should not have been employed as postdoctoral fellow by IFREMER before. The work will be conducted within the Fisheries Unit (IFREMER, Port-en-Bessin, France) in collaboration with the two teams involved in the molecular genetic work on the two case studies: the Laboratory of Aquatic Ecology (Prof. F. Volckaert and Dr. G. Maes, Catholic University of Leuven, Leuven, Belgium) for sole and the Population Genetic Group (Dr. E. E. Nielsen, National Institute of Aquatic Resources, Technical University of Denmark, Silkeborg, Denmark) (<http://www.iiasa.ac.at/Research/-EEP/FinE/Teams.html> < <http://www.iiasa.ac.at/-Research/EEP/FinE/Teams.html#team4> >). The position is for a duration of 18 months with a monthly gross salary of around 2 600 .

IFREMER (www.ifremer.fr/anglais/ < <http://www.ifremer.fr/anglais/> >) is a national research institute affiliated with the Ministry of Education, Research and Technologies, the Ministry of Agriculture and Fisheries, the Ministry of Environment and Sustainable Development, and the Ministry of Equipment, Transport, and Housing. The Institute conducts research in all fields of marine science among which fisheries and aquaculture sciences and the management of marine living resources. The Institute has about 1700 employees located in 24 marine stations distributed along the French coastline. The Fisheries Unit in Port-en-Bessin is part of a marine station located on the coast of the English Channel at 30 km from Caen, Normandy, France. It consists of about 35 persons among whom 15 senior researchers and 15

technicians in marine and fisheries science. Normandy is one of the most renowned regions in France for its food and its surroundings, which offers numerous opportunities for outdoor activities both on the seaside and

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

Valuing diversity and committed to equality of opportunity

Dr Vincent Savolainen Reader in Ecology and Evolutionary Biology Imperial College London, and Royal Botanic Gardens, Kew Silwood Park Campus Buckhurst Road, Ascot, Berkshire, SL5 7PY, UK Tel +44 (0)20 7594 2374 Fax +44 (0)20 7594 2339 v.savolainen@imperial.ac.uk or v.savolainen@kew.org <http://www3.imperial.ac.uk/people/v.savolainen> "Savolainen, Vincent" <v.savolainen@imperial.ac.uk>

ImperialCollege SpeciationGenomics

IMPERIAL COLLEGE LONDON

Division of Biology: Ecology and Evolution

Postdoc Research Associate SPECIATION GENOMICS

Salary: GBP 25,310 - GBP 36,800 per annum

This is an exciting opportunity for a Research Associate with an interest in Speciation Genomics. You will carry out cutting edge research investigating the mechanisms of ecological speciation in two sympatric palms endemic of Lord Howe Island (Nature 441:210, 2006), conducting AFLP genome scans, BAC probing, DNA sequences and coalescence analyses.

The successful candidate will be a highly motivated individual with practical experience in population genetics and/or genomics and strong interests in evolutionary biology.

The post is funded for 31 months by the Natural Environment Research Council and will be based at Silwood Park Campus. You will work closely with Dr Vincent Savolainen and his research group.

Further details of the research group can be obtained from the research group website: <http://www3.imperial.ac.uk/people/v.savolainen> Application Form & Job Description and Person Specification, see: <http://www3.imperial.ac.uk/employment/research/ns2008183dp> Completed application forms accompanied by a curriculum vitae and the name and contact details of two referees to: Diana Anderson, Imperial College, Silwood Park Campus, Buckhurst Road, Ascot, Berkshire, SL5 7PY. Email: d.anderson@imperial.ac.uk

Closing date: 31 October 2008

IndianaU SocialBacteriaEvolutionaryGenomics

Post-doctoral Position in Evolutionary Genomics of Social Bacteria at Indiana University

Applications are invited for a postdoctoral position in the laboratory of Gregory Velicer.

The Myxobacteria are soil bacteria that exhibit highly complex social behaviors, including social predation of other microbes, social motility and development into multicellular fruiting bodies in response to starvation. We are sequencing myxobacterial genomes at multiple taxonomic levels, including many strains of the model species *Myxococcus xanthus* isolated from a variety of local populations around the globe. In a biogeographically explicit context, we seek to characterize the adaptive evolution of genomic elements involved in myxobacterial social behavior, both within species and between species that vary in their degree of multicellular complexity.

We seek an evolutionary computational biologist skilled in evolutionary theory, bioinformatics and comparative genomic analysis and familiar with current and emerging sequencing technologies. The successful candidate will analyze patterns of selection and horizontal gene transfer among sequenced myxobacterial genomes and will help manage ongoing sequencing efforts, including sequence assembly and closure of some genomes. Experience in wet-lab bacterial genetics is also advantageous and may allow participation in ongoing studies of the evolutionary genetics of social adaptations in lab-evolved lineages of *M. xanthus*. The successful candidate might also participate in ecology experiments involving metagenomic analysis of soil microbial communities.

Salary and benefits will be competitive. Candidates

should be highly motivated, independent, interactive, and work well in collaboration with others. Applications should include a CV, a brief description of research experience and interests and contact information for three references. Please send applications and inquiries to Gregory Velicer at gvelicer@indiana.edu.

Indiana University has outstanding researchers and resources in evolutionary genomics, including the Center for Genomics and Bioinformatics. Bloomington, Indiana is a culturally dynamic community with many surrounding natural areas and opportunities for outdoor recreation.

Website links: Velicer Lab: www.bio.indiana.edu/facultyresearch/faculty/Velicer.html Indiana University Center for Genomics & Bioinformatics: <http://cgb.indiana.edu> Indiana University Department of Biology: <http://www.bio.indiana.edu>
gregory.velicer@tuebingen.mpg.de gregory.velicer@tuebingen.mpg.de

Institut Pasteur Bioinformatics

A post-doctoral position is available at the Institut Pasteur, in the laboratory "Genomic Integration and Analysis" (<http://genopole.pasteur.fr/PF4>).

Subject: Computational integration and analysis of next-generation sequencing data for the characterization of emerging infectious clones.

Research program: Next-generation sequencing (such as Illumina GA or 454 GS FLX), implemented in population genomic studies or genomic epidemiology, makes it possible to sequence multiple isolates of a same microbial species. Subsequent data analysis raises new questions, which require innovative computing strategies. The successful applicant mission aims at the development of methods and tools for handling and analyzing such data. The project is threefold: (i) the definition of adequate data models (e.g. defining reference sequences), (ii) the construction of cognate databases, associated with analysis tools and relevant query interfaces (e.g. searching for polymorphic regions, analyzing selection pressure, identifying genomic islands and horizontal transfers), and (iii) the biological interpretation of the data using the previously developed tools (e.g. correlating genomic profiles with serological, physiopathological or epidemiological features). These analysis will be carried out in collaboration with several associated labs that are running genomic typing

projects at the Institut Pasteur.

Requirements: double background in biology+informatics (PhD degree), including basics in algorithmic, at least one programming language (C, Perl), knowledge of database management systems (SQL), development of web interfaces (Java), and skills in standard methods and tools used in bioinformatics (sequence and genome analysis) – expertise in statistics and in microbiology would be appreciated.

Location: Institut Pasteur, PARIS, France. Duration: 2 years, immediately available. Salary: depending on qualifications.

Application (detailed CV, cover letter, references): Ivan Moszer - ivan.moszer@pasteur.fr Plate-forme Intégration et Analyse Génomiques Institut Pasteur 28 rue du Docteur Roux 75724 PARIS Cedex 15 FRANCE

Sylvain Brisse <sylvain.brisse@pasteur.fr>

InstZoologyLondon PopulationGenetics

Postdoctoral Research Assistant in Population Genetics at Institute of Zoology, Zoological Society of London

Applications are invited for a postdoctoral position in population genetics on a BBSRC funded project "Inference of genealogical relationships among individuals from genetic markers". The appointee of the position is expected to work with the PI (Dr. J. Wang) and collaborators (Dr. W. C. Jordan and Dr. A. F. G. Bourke) to develop statistical methodologies inferring genealogical relationships and relatedness between individuals from marker information, and to test the methodologies using empirical and simulated datasets. However, the appointee has the freedom to work on other projects of his/her interest as long as these fall into the broad conservation genetics theme of our research group.

The post is for a fixed term of 10 months and is available from the 1st of February 2009. The starting (annual) salary for the position is £26,470 plus £3,051 London weighting. The salary for the RA position has been enhanced by 2 spine points to attract skilled staff in selected research areas by the British government.

The candidate for the position should have a doctorate in biology (population genetics; statistical genetics; computational biology) or other related fields (statistics, applied mathematics or physics, bioinformatics).

Desired qualifications: demonstrated knowledge of population genetics or/and statistics, excellent programming experience, good record of scientific publication.

Full applications (including a cover letter outlining research interests, complete CV, publication list and contact details for three referees) should be sent to the HR Department, Zoological Society of London, Regent's Park, London NW1 4RY, UK (hr@zsl.org) by 20 December 2008. Informal enquiries should be sent to jinliang.wang@ioz.ac.uk.

Read about the Institute of Zoology on <http://www.zoo.cam.ac.uk/ioz/> and ZSL's work on <http://www.zsl.org>

Dr. Jinliang Wang Institute of Zoology Regent's Park London NW1 4RY Phone: +44 20 74496620 Fax: +44 20 75862870 <http://www.zoo.cam.ac.uk/ioz/index.htm>
Jinliang Wang <Jinliang.Wang@ioz.ac.uk>

LeidenU EvolutionOfWeediness

Post.Doc, Faculty of Sciences, Institute of Biology (8-196) Faculty of Sciences, Institute of Biology Faculty of Sciences, Institute of Biology (IBL)

Within the ERGO program of the Netherlands Organization for Scientific Research (NWO), we are looking for an enthusiastic

POSTDOC (F/M) (38 hours) Vacancy number: 8-196 to work on the project "Plant traits constituting ecological risks" in the section Plant Ecology of the Institute of Biology (IBL) of Leiden University, Faculty of Sciences.

The project: One of the concerns about some Genetically Modified crops is that they, or their close relatives, become weedy. We address this question for two species *Brassica napus* (Oilseed rape) and *Agrostis stolonifera* (Creeping bentgrass). Both species harbour considerable genetic variation, have the potential to form feral populations and modern varieties differ considerably from old ones. By measuring the survival in different life stages, especially the seed stage, and combining this information in a mathematical model, we rank different genotypes for their weediness and invasive potential. We aim to show, in general, which parameters make a species invasive and to give recommendations with respect to the ecological risk analysis of GM crops. Molecular and chemical analyses will be used to deduce

the history of feral populations. This ERGO project at Leiden University is part of a collaboration with the ERGO project of the University of Amsterdam (Prof. Van Tienderen) about ecosystem effects of future GM crops.

Postdoc position In collaboration with a technician the postdoc will grow plants under a range of conditions, will estimate demographic parameters for different genotypes and will combine this information in a mathematical model.

The candidate should have:

0. a PhD in ecology, preferably related to life-history theory
0. an excellent publication record
0. knowledge of mathematical modelling
0. basic knowledge of molecular techniques like AFLP
0. basic knowledge of chemical analyses
0. sufficient fluency in writing and speaking English
0. a driver's license ???
Conditions of employment

The project is for three years. The post-doc will be appointed on a fixed term contract according to the VSNU guidelines, depending on education and experience. The gross salary will be between 2802, and 3678, commensurate with experience.

For more information contact:

Dr. T.J. de Jong, email: t.j.de.jong@biology.leidenuniv.nl, tel: +31 71-5275118

For the ERGO program see: www.nwo.nl/nwohome.nsf/pages/NWOA.6JNPG4.Eng The full text of this grant is available at request from Tom J. de Jong.

Application: Applications with vacancy number on the letter and envelope can be sent until the 17th of November to: Dr. Tom J. de Jong, Institute Biology Leiden, PO Box 9516, 2300 RA Leiden.

publicatiedatum: 20-10-2008 20/10/2008

"T.J. de Jong" <T.J.de.Jong@biology.leidenuniv.nl>

Marseille MolecularPhylogeny

Post-doctoral position in Evolution and Bioinformatics (Marseille, France)

A 24 months position is available in our group "Genome, Evolution and Bioinformatics" (GEB). The group is part of the "Laboratoire de Chimie Bactérienne" (LCB, CNRS-UP9043) within the "Insti-

tut de Biologie Structurale et Microbiologie" (IBSM) (Marseille, France).

The position is funded by an ATIP (Action Thématique et Incitative sur Programme) young researcher grant from the French Research Council, CNRS (Centre National de la Recherche Scientifique).

Our team has two primary lines of research: (i) the study of ancient evolution (i.e. deep relationships within and between the three domains of life) and (ii) the reconstruction of ancestral biological systems and their subsequent evolution using phylogenomics methods. For more details a list of the publications of the team is available at (<http://lcb.cnrs-mrs.fr/-spip.php?rubrique86>).

The applicant will work on ancient prokaryotic evolution. Three main questions will be addressed: - Do the phylogenies based on informational proteins reflect accurately the evolution of Archaea and Bacteria? - What is the real importance of horizontal gene transfers in prokaryotes (from a quantitative but also from a qualitative point of view)? - What did the last archaeal common ancestor (LACA) and that of Bacteria (LBCA) look like and what is the importance of reductive evolution in prokaryotes (i.e. genes that were present in LACA or LBCA and subsequently lost in some archaeal or bacterial lineages)?

Qualifications and experience required:

Applicants should have: - a PhD in biology or in bioinformatics - skills in at least one programming language - a good knowledge of current molecular phylogeny and bioinformatics tools - a real interest in evolutionary biology

The position is available at 01/01/2009. The salary will depend on previous professional experience (with a minimum of 2328,05 per month) and includes social security (with medical coverage) paid by the employer).

Application: Please, send a motivation letter describing your experience, a detailed CV including publications, and the names (and addresses) of two referents to: Céline Brochier (celine.brochier@ibsm.cnrs-mrs.fr) Do not hesitate to contact me for complementary information.

Céline Brochier

Céline Brochier-Armanet

Equipe Génome, Evolution, Bioinformatique Laboratoire de Chimie Bactérienne (CNRS - UPR9043) Institut de Biologie Structurale et de Microbiologie 31 chemin Joseph Aiguier 13402 Marseille Cedex 20 FRANCE

Tél. 33(0)491164508 (LCB) Fax. 33(0)491718914 (LCB) Université de Provence - Aix-Marseille I Case courrier 36 Centre Saint-Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 FRANCE

Tél. 33(0)491106475 Fax. 33(0)491106353 Web page: <http://www.frangun.org>

Netherlands EvolutionaryEcol

The Netherlands Institute of Ecology (NIOO-KNAW) is a research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW). It comprises three centers: the Centre for Estuarine and Marine Ecology in Yerseke, the Centre for Limnology in Nieuwersluis, and the Centre for Terrestrial Ecology in Heteren. Mission of the NIOO-KNAW is to carry out fundamental and strategic research in ecology.

The Department of Animal Population Biology at the Centre for Terrestrial Ecology is offering a

POST-DOC POSITION IN EVOLUTIONARY ECOLOGY / THEORETICAL BIOLOGY (m/f) Vacancy number CTE-PVD-08430

Job description: The post-doc position is part of the NWO-VICI project Adapting to a warmer world: phenology, physiology and fitness. In this project, we study selection on phenotypic plasticity in timing of reproduction in great tits in relation to global climate change. There are five integrated subprojects ranging from quantitative genetics, population dynamics and reproductive physiology to genomics. For one of these subprojects we are looking for a post-doctoral candidate. The project will be carried out in collaboration with Prof John McNamara (Bristol, UK, www.maths.bris.ac.uk/people/faculty/majmm/ < <http://www.maths.bris.ac.uk/people/faculty/-majmm/> >).

Project description: Reaction norms of timing reproduction in great tits are currently under selection due to climate change. The strength of this selection, together with the genetic variation in the mechanism underlying these reaction norms, will determine the rate of micro-evolution in reaction norms. Climate change will lead to a new set of environmental conditions and thus we cannot use existing data on selection to predict selection in future years. The aim of the project is therefore to develop an annual routine model to calculate the optimal reaction norm under various sets of

environmental conditions, based on our measurements of the costs and fitness benefits of reproduction in relation to laying date. The model will be validated using our long term (1955-present) population study on great tits.

Requirements: We are looking for an enthusiastic candidate with a PhD in Evolutionary Ecology, Animal Ecology or Theoretical Biology and with programming skills. A limited amount of fieldwork may be part of the project. Part of the time, the candidate will be at Bristol University.

Appointment: The appointment will be on a temporary basis for a maximum of 2 years. The gross salary starts at EUR 2.802,- per month, scale 10.4, Collective Agreement for Dutch Universities (CAO-Nederlandse Universiteiten), excluding 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Information: Additional information about this position is available upon request from Prof. Marcel E. Visser (m.visser@nioo.knaw.nl <mailto:m.visser@nioo.knaw.nl> or +31-26-4791253), head of department Animal Population Biology. More information about the NIOO can be found on our website (www.nioo.knaw.nl < <http://www.nioo.knaw.nl/> >).

Applications: Please send your application including complete curriculum vitae, vacancy number and names of three referees to Prof. Marcel E. Visser at NIOO-KNAW, P.O. Box 40, 6666 ZG Heteren, The Netherlands or g.giesen@nioo.knaw.nl. The closing date for application is 23 October 2008, and the interviews will take place on 24 & 25 November.

Prof. Dr Marcel E. Visser Head of Department Animal Population Biology Netherlands Institute of Ecology (NIOO-KNAW) P.O. Box 40 6666 ZG Heteren The Netherlands

Phone: +31-26-4791253 Fax: +31-26-4723227 E-mail: m.visser@nioo.knaw.nl

Website: www.nioo.knaw.nl < <http://www.nioo.knaw.nl/> > Personal page: www.nioo.knaw.nl/ppages/mvisser < <http://www.nioo.knaw.nl/ppages/mvisser> >

“Visser, Marcel” <M.Visser@nioo.knaw.nl>

NIH RockvilleMD MosquitoEvolution

Vector Ecology & Evolution Post-Doctoral Position Available at NIH. A post-doctoral position is available in the International Studies of Malaria and Entomology Section, Laboratory of Malaria and Vector Research at NIH/NIAID. We study mosquito ecology, behavior, population genetics, and mosquito-pathogen interactions using diverse approaches and methodologies. Recently, we have focused on the evolutionary forces that underlie speciation in *Anopheles gambiae* resulting in the molecular forms and aspects of mating behavior that constitute reproductive isolation barriers. Ongoing studies include projects on mosquito longevity, costs of reproduction, and Plasmodium vector specificity. We are looking for a highly motivated, independently thinking individual, who wants to design and conduct field and/or laboratory studies on such topics. A Ph.D. in entomology, ecology, behavior, quantitative/population genetics, or related field and at least one first-author publication are required. Experience in field biology, molecular biology, parasitology, and statistical analysis is desirable. No more than 5 years since the date of completion of Ph.D. degree. To apply, please send CV, statement of research interests, reprints of recent papers, and names of three references to Tovi Lehmann. E-mail: tlehmann@niaid.nih.gov

Tovi Lehmann Laboratory of Malaria and Vector Research, NIAID, NIH 12735 Twinbrook Parkway, Room 2W-09-C Rockville MD 20852 Email: TLehmann@niaid.nih.gov <mailto:TLehmann@niaid.nih.gov>
Phone: 301-451-1059 Fax: 301-480-2038 <http://lehmannlab.freehostia.com/> < <http://lehmannlab.freehostia.com/> >

“Lehmann, Tovi (NIH/NIAID) [E]” <tlehmann@niaid.nih.gov>

NorthDakotaStateU ConservationGenetics

CONSERVATION GENETICS POSTDOCTORAL

FELLOW position in the Department of Biological Sciences at North Dakota State University, Fargo, ND. The Postdoc will conduct collaborative research with the PI (Craig Stockwell) and various graduate students concerning the conservation and evolutionary genetics of native and introduced fish populations. The postdoc will also teach one course and assist with coordinating the Environmental & Conservation Sciences Graduate seminar each year of the appointment. Requires Ph.D. (or ABD) in biology, conservation biology or related field; clear and effective communication skills, lab experience with genetic techniques; experience in work-related record keeping; use of Internet; use of computer applications such as word processing, graphic applications and spreadsheets. Prefer experience with microsatellites and other markers; teaching experience is also preferred. Salary will be commensurate with experience. An excellent benefits package will be provided. For a complete description and the web-based application process please visit jobs.ndsu.edu/applicants/Central?quickFindP609. For more information, please contact Craig Stockwell (Craig.Stockwell@ndsu.edu), or call the NDSU Human Resources Office (701) 231-8525. Screening will begin November 7, 2008 (or as soon as a competitive applicant is identified), and continue until the position is filled. NDSU is an equal opportunity institution.

Craig A. Stockwell James A. Meier Associate Professor
Department of Biological Sciences Environmental & Conservation Sciences Graduate Program Stevens Hall
North Dakota State University Fargo, ND 58105

phone (701) 231-8449 fax (701) 231-7149 e-mail
Craig.Stockwell@ndsu.edu web site: <http://www.ndsu.nodak.edu/ndsu/stockwell/>

“Craig.Stockwell” <Craig.Stockwell@ndsu.edu>

Perth AcaciaPhylogenetics

CONSERVATION RESEARCH SCIENTIST

3 YEAR FIXED TERM

GOSACGA Level 5 (\$63,621 V \$70,315) or Level 6 (\$74,036 - \$81,983)

POSITION NUMBER 96000226

KINGS PARK AND BOTANIC GARDEN, PERTH,
WESTERN AUSTRALIA.

The Botanic Gardens and Parks Authority (BGPA) is

seeking to appoint a Conservation Research Scientist on the project “Assessment of population genetic variation and structure of *Acacia karina*, and its phylogenetic relationship to other *Acacia* species”

We seek an experienced research scientist for a 3-year appointment to conduct an academically rigorous research program aimed at understanding potential genetic impacts on *A. karina* from proposed mining, and working towards a more comprehensive phylogeny of *Acacia*. Duties include the assessment of population genetic structure using microsatellites, to conduct field-based and lab-based research in population and conservation genetics, breeding and mating systems, pollen and seed dispersal, population ecology and molecular phylogenetics. The successful applicant will be required to present research results in the usual academic forums, as well as to prepare reports for, and regularly liaise with, industry partner representatives, and to seek and co-supervise post-graduate research programs.

Minimum requirements are a PhD in a relevant discipline, demonstrated research achievements in molecular ecology and/or molecular systematics, an understanding of genetic issues associated with small populations, high-level communication skills, a strong publication record, and a current drivers license. For appointment at Level 6, a minimum of two years relevant postdoctoral and/or workplace experience is required.

While the position will be based at the Biodiversity Conservation Centre at Kings Park and Botanic Gardens, Perth, Western Australia, an ability to work in isolated areas is essential.

The Science Directorate at BGPA undertakes integrated and innovative research in native plant biology, underpinning conservation and ecological restoration of Western Australia’s unique biodiversity, and biodiversity generally. Successful conservation outcomes are achieved through world-class research, and strategic alliances with industry, land managers, the community and other research organisations. The Science Directorate undertakes scientific research into the fields of conservation genetics, conservation biology, restoration ecology, seed science, conservation biotechnology, ex situ conservation and propagation science. With more than 65 scientists and research students, we are one of the few groups in the world to adopt this integration of science and practical horticulture for the recovery and conservation of species and the restoration and management of ecosystems. Direct and indirect applications of this approach include improved methods for managing and restoring urban bushland, minesite restoration, in situ and ex situ rare flora conservation, and the horticultural development of Western Australian plants.

For further details, contact Dr Siegy Krauss (08 9480 3673 or siegy.krauss@bgpa.wa.gov.au). Details about the position, and more information on the Science Directorate, are available at <http://www.bgpa.wa.gov.au>
Closing date: 4pm, 17th October 2008

Siegy Krauss <skrauss@bgpa.wa.gov.au>

Portugal Borneo ConservationGenetics

Cher/es tou/te/s, j'ai fait passer ces deux annonces (un post-doc et un technicien) sur evoldir il y a deux-trois semaines. La deadline est le 15 septembre (lundi prochain). Peut-Être connaissez-vous des Â©tudiants ou post-docs intÂ©ressÂ©s ? LounÂs

Post-doc job in conservation genetics: habitat fragmentation and large mammals of Borneo

NOTE: DEADLINE 15 SEPT 2008 !!!!

The Population and Conservation Genetics group (<http://www.igc.gulbenkian.pt/research/unit/88>) is looking for a post-doctoral researcher to work on the impact of fragmentation on large mammals from Borneo. The project will involve lab, field and simulation work in collaboration with L. Chikhi (in Portugal) and B. Goossens (in Malaysia).

The post-doctoral candidate is expected to work in close collaboration with a technician who will be hired on the same project. Since the post-doc and technician are expected to be complementary, we are open regarding the profile that the post-doctoral should have. S/he could thus be a biologist with a strong interest for modelling, a biologist working in the laboratory or a theoretician with an equally strong interest in biological problems. Excellence and adaptability are the main selection criteria.

The Month Stipend follows the regulations of the FCT Scientific Fellowships in Portugal (1495.00/month) and will initially be for 18 months but the successful candidate will be encouraged to apply for independent funding from international or Portuguese funding bodies.

The post-doc will be based at the Instituto Gulbenkian de Ciênciâ (IGC, <http://www.igc.gulbenkian.pt/>) which is a leading Research Institute in Portugal and in

Europe. Researchers at the IGC work on a wide range of subjects from epidemiology, to genetics, evolutionary biology, bioinformatics and theoretical immunology. The IGC is located in Oeiras, a small sea-side town 20 min. by train from downtown Lisbon, along the Tagus. It is only 10-15 min. walking distance from the beaches and the quality of life is excellent. The IGC provides excellent research conditions and English is the communication language among and within groups. Several other research institutions are located near-by addressing both fundamental and applied questions in biomedical sciences using interdisciplinary approaches.

Applications in PDF format will be accepted by email only (to chikhi@igc.gulbenkian.pt) until September 15th, 2008, and will include: -a short CV -a motivation letter -two recommendation letters (sent independently by referees) or contacts of two referees

-

LounÂs Chikhi ChargÃ© de Recherche CNRS UMR CNRS Evolution et DiversitÃ© Biologique, Toulouse chikhi@cict.fr

NOUVELLE ADRESSE (01/10/2007 AU 30/09/2008):

Population and Conservation Genetics Group Instituto Gulbenkian de CiÃncia Rua da Quinta Grande, 6 P-2780-156 Oeiras, Portugal Tel: +351 21 446 46 71 Fax: +351 21 440 79 70 chikhi@igc.gulbenkian.pt

LounÂs Chikhi <chikhi@cict.fr>

ReedCollege Portland CichlidEvolution

Reed College Postdoctoral Research Fellowship in Behavioral Genomics: An NSF/NIH funded postdoctoral position is available to study the genomic, neural, and endocrine mechanisms underlying social phenotypes in cichlid fishes from Lake Tanganyika, Africa. Areas of specific interest include maternal behavior and sex-role behavior addressing plasticity with a species as well diversity between species.

This position is part of an exciting research program that integrates behavioral, neuroendocrine, molecular, and genomic approaches to dissect complex behaviors. Reed College is a liberal arts college with strong support for the sciences. The fish facility includes >3000 gallons for observation, and manipulation of behavior. The molecular lab is fully equipped for gene expression

profiling using cDNA microarrays, quantitative real-time PCR, ELISA measurement of hormone titers, and gene expression localization through in situ hybridization

The successful candidate will have experience in behavior analysis, as well as molecular biology or endocrinology. Computer skills, including Perl programming, statistical analysis with R-programming language or database management, are a plus.

Applicants should send letter of intent, CV or resume, including the names and phone numbers of at least three references, to Susan Renn, Ph.D., Assistant Professor, Department of Biology, Reed College, 3203 SE Woodstock Blvd., Portland, OR, 97202, or by email to renns@reed.edu. Position open until filled. Reed College is an Equal Opportunity Employer.

renns <renns@reed.edu>

RutgersU EvolutionaryModeling

Please post the following job announcement for an opening in my lab at Rutgers University:

Applications are currently being solicited for a post-doctoral research associate in the area of mathematical modeling of evolutionary sociobiology and/or epidemiology at Rutgers University in New Brunswick, NJ. The lab's research focuses on the modeling of the evolution of sociality, studying questions of self-organizational strategies, societal stability, organizational success, and population robustness to disease threats. Questions explored are both theoretical and applied, and an ideal candidate would be interested in both aspects of the work. For further details, please see Fefferman's website at < <http://www.math.princeton.edu/~fefferman/> >.

Requirements: - A Ph.D. in some pertinent field. Such fields could include, but are not limited to applied mathematics, computer science, ecology, epidemiology, or evolutionary biology - Some research experience in applied mathematical modeling (within any scientific field would qualify) - A basic understanding of statistics (can be extremely basic), or at least a willingness to learn independently - An interest in evolutionary socio-biology - An interest in disease and epidemics - The ability to write clearly and scientifically (e.g. to produce drafts of papers for publication in scientific journals without too much oversight) - Ability to

work/communicate with a multidisciplinary team - Ideally, a candidate would have some computer programming abilities, but this is not necessary - Ideally, a candidate would have some experience mentoring undergraduate level-research, but this is not necessary - Willingness to help with the preparation of grant proposals would be a plus

An ideal candidate could come from theoretical biology, ecology, or public health, but could also come from a program in applied mathematics, computer science, operations research, bio-engineering, or nearly any other technical field. The lab runs jointly between The Center for Discrete Mathematics and Theoretical Computer Science and the department for Ecology, Evolution and Natural Resources, so there exists the possibility to play with the job title for those wishing to work in biology for a while, but then possibly return to math or computer science.

This position could be appropriate not only to new Ph.Ds, but also to more advanced researchers looking to switch fields, or re-enter academia from government or industry.

This is a full-time, one year position with benefits, renewable for an additional year if things work out well. Ideal start date: January 2009, however this is negotiable. For further questions, or to apply by sending CV and statement of interest, send email to Nina H. Fefferman at <fefferman (at) aesop.rutgers.edu>. Applications will be reviewed as they arrive.

Thanks so much,

Nina H. Fefferman Dept. Ecology, Evolution and Natural Resources Rutgers University

"Nina H. Fefferman" <fefferman@Math.Princeton.EDU>

SantaFeInstitute EvolutionaryBiology

Hi all,

I wanted to draw your attention to a postdoc opportunity at the Santa Fe Institute. SFI is a small, trans-disciplinary research institution, which includes researchers from physics, math, computer science, anthropology, economics, and other fields in addition to biology. A large number of the researchers associated with SFI have interests in evolutionary biology – and evolution, broadly construed.

The Fellowships provide three years of salary plus opportunities to travel, bring visitors to SFI, and organize workshops. Fellows are independent researchers, and work on whatever most interests them, often, but not necessarily, in collaboration with the faculty and other Fellows.

The one caveat is that we have no wet-lab facilities, and the research here is primarily theoretical and computational. So, if you are a theoretical or computational evolutionary biologist, please check us out. I have attached our ad text below. To find out more about the research and researchers at SFI, please look at <http://www.santafe.edu/research/>. If you have any questions, please feel free to contact me directly.

Best regards, Jon Wilkins

POSTDOCTORAL FELLOWSHIP

Postdoctoral Fellowship appointments at the Santa Fe Institute begin fall 2009. Appointed for up to three years, fellows pursue research questions of their own design, are encouraged to transcend disciplinary lines, and collaborate with SFI faculty, other Fellows, and researchers from around the world. Fellows are encouraged to invite speakers, organize workshops and working groups, and engage in research outside their fields. Funds are available to support this full range of research activities.

The Santa Fe Institute is an affirmative action, equal opportunity employer. We are building a culturally diverse faculty and staff and strongly encourage applications from women, minorities, individuals with disabilities, and covered veterans. Successful foreign applicants must acquire an acceptable visa, usually J-1.

TO APPLY: View the full position announcement and application instructions at www.santafe.edu/postdoc. Application due by November 14, 2008. For further information, email postdocinfo@santafe.edu.

Jon Wilkins wilkins@santafe.edu

Professor Santa Fe Institute 1399 Hyde Park Road
Santa Fe, NM 87501

(505) 946-2755 www.santafe.edu/~wilkins
wilkins@santafe.edu wilkins@santafe.edu

TexasAMU ParasiteEvolution

Postdoctoral Position in Evolutionary/Molecular Ecology of Parasites

A postdoctoral position is available in the lab of Charles Criscione at Texas A&M University, Dept. of Biology. The postdoc would participate in studies on the population genetic and mating system dynamics of parasitic flatworms. A background in empirical or theoretical population genetics (with molecular laboratory skills such as PCR, cloning, sequencing, and microsatellite/SNP genotyping) is highly desirable. Additional experience in parasite systems is preferred, but not a prerequisite. Applicants must have a Ph.D. in evolutionary biology, ecology or related fields. Applicants at or near the end of their Ph.D. are encouraged to apply. The position will remain open until filled. Anticipated start date is mid to late Spring of 2009, but is negotiable. The Department of Biology faculty (<http://www.bio.tamu.edu/FACMENU/facalph.htm>) has diverse expertise ranging from molecular/developmental genetics to evolutionary and behavioral theory. The Criscione lab is also part of the Interdisciplinary Research Program in Ecology and Evolutionary Biology at A&M (<http://eeb.tamu.edu/about/>). Texas A&M University is an equal opportunity, affirmative action employer committed to diversity.

To apply, please send an email with a letter of interest, C.V., and contact information for 3 references to ccriscione@mail.bio.tamu.edu

For information on the lab, please see <http://www.bio.tamu.edu/FACMENU/FACULTY/CriscioneC.htm> <http://www.geocities.com/cooch2000/> Charles D. Criscione, Assistant Professor Department of Biology Texas A&M University 3258 TAMU College Station, TX 77843-3258

phone: (office: 979-845-0917, lab:979-845-0925)
email: (ccriscione@mail.bio.tamu.edu) faculty
web page: www.bio.tamu.edu/FACMENU/FACULTY/CriscioneC.htm pdf reprints web page:
www.geocities.com/cooch2000 Charles Criscione
<ccriscione@mail.bio.tamu.edu>

UABarcelona PopGenomics

Postdoc

We are looking for a motivated Population Geneticist / Bioinformatician to cooperate in an international project to infer population genetic parameters from next generation sequencing (NGS) porcine data. In addition, the incumbent will carry out coalescence and forward simulations of NGS data to study the perfor-

mance of different inference approaches under diverse demographic and selective scenarios. Desired capabilities are good programming skills in a script language (Perl preferably) and C/C++ or similar, and ability to work as a team member. The position is available initially for one year with gross salary 2300 - 2500 euros / month. Desired starting date is January 2009. The work location is at Veterinary School in Barcelona, within a highly dynamic team with strong population, statistical and molecular genetics skills. Interested persons submit CV, list of research interests and emails of at least 2 researchers to miguel.perez@uab.es and sebastian.ramos@uab.es.

PS: I might be slow responding october 16-26 due to travelling. During these days is better to email sebastian.ramos@uab.es

Miguel Perez-Enciso ICREA professor Dept. Ciencia Animal i dels Aliments Facultat de Veterinaria Universitat Autonoma de Barcelona 08193 Bellaterra, SPAIN Phone: +34 93 581 4225 Fax: +34 93 581 2106 miguel.perez@uab.es <http://www.icrea.cat/-Web/ScientificForm.aspx?key=255> sebas@ramos.net

UBristol NematodeLifeHistory

Genetics of life-history traits in the nematode *C. elegans*

School of Biological Sciences, University of Bristol

£30,913 The purpose of this NERC-funded project is to investigate the genetic control and phenotypic response of major life-history traits of the nematode *Caenorhabditis elegans*. This builds on our previous work in this area (Harvey et al. (2008) *BMC Evolutionary Biology*, 8, 15. doi: 10.1186/1471-2148-8-15). This programme of work will (i) test for trade-offs between, and local adaptation in, dauer larva development and adult reproduction strategies of strains of *C. elegans* recently isolated from the wild; (ii) select lines of *C. elegans* for altered phenotypic plasticity of dauer larva development and (iii) resolve the QTLs controlling dauer larva development and population growth rate.

This post will be supported by a full-time technician. This work is complemented by an associated project in the School of Chemistry.

You will be part of a small and friendly team working on various aspects of nematode biology, within the School of Biological Sciences whose work encompasses

all aspects of biology.

Mark Viney School of Biological Sciences University of Bristol Woodland Road Bristol BS8 1UG UK

phone: + 117 928 7469 fax: +117 331 7985 <http://nematode.bio.bris.ac.uk/> Email: Mark.Viney@bristol.ac.uk

Mark Viney <Mark.Viney@bristol.ac.uk>

UBritishColumbia Biodiversity

BIODIVERSITY We seek applicants for a 2-year post-doctoral fellowship in the U.B.C. Biodiversity Research Centre (www.biodiversity.ubc.ca). The Centre is currently made up of over 40 members of the U.B.C. Science Faculty with interests in ecology, evolution, systematics, biodiversity and conservation. Preference will be given to candidates with bold ideas, demonstrated research ability, and strong communication skills. The successful candidate will be expected to: conduct original research on core problems in biodiversity, foster interactions within the Centre, run a seminar series and organize a retreat. Starting date, 1 September 2009. Salary \$40,000 per yr. Research stipend: \$7,000 per yr. Send curriculum vitae, three letters of reference, and a brief statement of goals to Search Chair, Biodiversity Research Centre, U.B.C., 6270 University Blvd., Vancouver, B.C., Canada V6T 1Z4. (Fax 604-822-0653, e-mail biodiversity.centre@ubc.ca). Closing date for application, 5 January 2009. The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified candidates to apply.

Irene Wingate Assistant to the Director Biodiversity Research Centre, UBC

Irene Wingate <wingate@zoology.ubc.ca>

UCalifornia EvolutionaryBiology

Hello, I would like to make evolutionary biologists aware of the very generous postdoctoral fellowship (~\$65,000) available at any of the ten University of California campuses.

Thanks! Joel Sachs

Applications Due November 1, 2008!

THE PROGRAM The University of California President's Postdoctoral Fellowship Program was established in 1984 to encourage outstanding women and minority Ph.D. recipients to pursue academic careers at the University of California. The current program offers postdoctoral research fellowships, faculty mentoring, and eligibility for a hiring incentive to qualified scholars in all fields whose research, teaching, and service will contribute to diversity and equal opportunity at the University of California.

CONTRIBUTIONS TO DIVERSITY AND EQUAL OPPORTUNITY These contributions may include public service addressing the needs of our increasingly diverse society, efforts to advance equitable access to higher education for women and minorities, or research focusing on underserved populations or understanding issues of racial or gender inequalities. The program is seeking applicants with the potential to bring to their academic careers the critical perspective that comes from their non-traditional educational background or understanding of the experiences of groups historically underrepresented in higher education.

FACULTY APPOINTMENTS The goal of the program is to provide research opportunity and career development for scholars whose work will enhance the diversity of the academic community at the University of California. Of the President's Postdoctoral Fellows appointed from 2001-06, over 75% have received tenure track faculty appointments and over 40% have received faculty appointments at University of California campuses.

WELCOME Please explore our web page for more information about the program including evaluation and selection, how to apply, terms of appointment, and recipients of President's Postdoctoral Fellowship awards.

More information at: <http://www.ucop.edu/acadadv/ppfp/> – Joel L. Sachs Assistant Professor Department of Biology University of California 1208 Spieth Hall Riverside, CA 92521 joels@ucr.edu Office (951) 827-6357 Fax (951) 827-4286 <http://www.biology.ucr.edu/people/faculty/Sachs.html> joel.sachs@ucr.edu

UCaliforniaSanDiego
GlycanEvolution

Postdoctoral position “Causes and Consequences of Glycan Evolution”

A postdoctoral position is available to study the role of sperm surface glycans for reproductive compatibility and speciation. We are a new lab that focuses on causes and consequences of glycan evolution at the intersection of natural and sexual selection. We combine comparative studies of human and great ape sperm surface glycans with experiments using transgenic mice in order to test the role of sperm surface glycosylation for reproductive compatibility via cryptic female choice.

Individuals with an interest in evolutionary glycobiology and with experience in mouse reproduction are invited to apply. Please send a cover letter, CV, and names, e-mail addresses and telephone numbers of three references to Pascal Gagneux at pgagneux@ucsd.edu. Department of Cellular and Molecular Medicine and Glycobiology Research and Training Center, University of California, San Diego

pgagneux@ucsd.edu

UCaliforniaSantaBarbara
EvolutionaryTheory

A postdoctoral position in evolutionary theory is currently available in the Proulx lab at UCSB. The postdoc would participate in an NSF funded project to develop theory describing the evolution of genetic interactions in ecological context. Interested applicants should have a strong background in evolutionary theory, mathematical modeling, and interests in either organismal adaptation or molecular evolution.

To apply, please send an email with a letter of interest and cv to postdoc@proulxresearch.org and include “theory postdoc” in the subject.

For more information on the lab and our research see <http://www.lifesci.ucsb.edu/eemb/faculty/proulx/-index.html>, <http://dx.doi.org/10.1086/426873>, <http://dx.doi.org/10.1111/j.0014-3820.2006.tb01168.x>. Stephen Proulx Assistant Professor Ecology, Evolution, and Marine Biology UC Santa Barbara stephen.proulx@gmail.com

UConnecticut PhylogeneticReconstruction

Postdoctoral Investigator in Phylogenetic/Phylogenomic Reconstruction at the University of Connecticut.

We seek a postdoctoral scientist with experience in phylogenetic analysis and programming and a strong biological/microbiological/evolution background. Our NSF-Assembling the Tree of Life funded project examines the role of lateral gene transfer in the evolution using the Halobacteriales and Thermotogales as model systems. The position will commence no later than January 1st, 2009. Applicants must have a Ph.D. at the time of employment. The University of Connecticut, rated first among public universities in New England, is located in northeastern Connecticut with easy access to Boston and New York City. The web page of the Department of Molecular and Cell Biology is <http://mcb.uconn.edu>. Electronic applications should include a curriculum vitae and contact information for three references. Applications should be sent to Drs. Kenneth Noll (kenneth.noll@uconn.edu), R. Thane Papke (thane@uconn.edu), or J. Peter Gogarten (gogarten@uconn.edu, <http://gogarten.uconn.edu>).

—

J. Peter Gogarten Professor of Molecular and Cell Biology University of Connecticut Unit 3125, BPB 404 91 North Eagleville Road Storrs CT 06269-3125 USA

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

UEastAnglia EvolutionOfLifeHistories

Telomeres as biomarkers of costs and quality in the Seychelles warbler

UNIVERSITY OF EAST ANGLIA - SCHOOL OF BIOLOGICAL SCIENCES

SENIOR RESEARCH ASSOCIATE Ref: RA519

28,290 to 33,780 per annum (pay award pending)

A NERC funded postdoctoral position is available from December 2008 for a period of two years and nine months. The goal of the research is to use the unique correlative and experimental data set compiled on the Seychelles warblers to undertake a comprehensive longitudinal study of telomere shortening in a wild avian population. The study will address a fundamental problem in evolutionary biology; namely how to measure and compare the costs that individuals pay when participating in different activities/experiences in their natural setting. The accurate estimation of such costs is essential to our understanding of the trade-offs inherent in the evolution of life histories. The work will be undertaken with Dr David S Richardson and partners involved in the overall Seychelles warbler project (J Komdeur and T Burke) and the specific telomere work (P Monaghan and S Verhulst).

The researcher will help to develop molecular protocols to screen for telomere length in the Seychelles warbler. They will then; 1) determine whether telomere shortening be used as a measure of biological aging in this wild population, 2) investigate the relative costs, in terms of telomere shortening, of different stresses, and, 3) test the idea that individual variation in telomere shortening rate can reflect an individuals ability to withstand these stresses and, therefore, provide an indicator of individual quality.

Applicants must have, or be about to obtain, a PhD in a relevant discipline such as evolutionary or behavioural ecology and have a keen interest in understanding life history trade-offs and senescence. Practical experience in modern molecular techniques, such as PCR/sequencing, is essential. Field experience and animal handling are desirable as there may be the opportunity to participate in fieldwork.

Closing date: 12 GMT on 26 September 2008.

Further particulars and an application form can be obtained from the University's web page at: www.uea.ac.uk/hr/jobs/ <file:///C:/Documents%20and%20Settings/k835/Local%20Settings/Temporary%20Internet%20Files/BIO/www.uea.ac.uk/hr/jobs/> or by e-mail at: hr@uea.ac.uk or by calling the answerphone on 01603 593493 or by mail to the Human Resources Division, UEA, Norwich NR4 7TJ.

Dr. David S. Richardson School of Biological Sciences, University of East Anglia, Norwich NR4 7TJ England

http://biobis.bio.uea.ac.uk/biosql/fac_show.aspx?ID=325 email david.richardson@uea.ac.uk Telephone 01603 591496 FAX 01603 592250

“Richardson David Dr (BIO)” SC005336.

<David.Richardson@uea.ac.uk>

Tom Little <tlittle1@staffmail.ed.ac.uk>

UEdinburgh 5 DiseaseEvolution

Post Doctoral Research Opportunities at University of Edinburgh.

Two Advanced research fellowships (3 years, extendable) and three 2-year fellowships at:

Centre for Immunity, Infection and Evolution ? A Wellcome Trust-funded Centre-in-Development ?

The University of Edinburgh has recently established the Centre for Immunity, Infection and Evolution, as a new initiative in infectious disease research with funding from The Wellcome Trust. The Centre combines over 20 Principal Investigators with established research funding. Full details on constituent laboratories of the Centre are available on <http://sbsweb2.bio.ed.ac.uk/iie/>. The Centre offers an innovative Fellowship Programme, for which we are now inviting applications.

Two Advanced Fellowships are available for 3 years, extendable with University support to tenure-track status. Fellows will be emerging leaders in their fields, able to bring further interdisciplinary strengths to the Centre. Fellows will be expected to propose their own research programme complementary to, and consonant with, the new Centre.

Three 2-year Research Fellowships will also be appointed. Fellows will have, typically, up to 4 years? postdoctoral experience and may take up one of the collaborative projects outlined on the web site <http://sbsweb2.bio.ed.ac.uk/iie/fellowships>. Alternatively, candidates may propose their own research plan in conjunction with two different Centre laboratories. Fellows will be encouraged to continue their work at the Centre beyond this time through competitive applications for external Fellowship funding.

The deadline for applications for 2-year Fellowships is 13 November 2008, and for the Advanced Fellowships 27 November 2008.

– Dr. Tom Little, Wellcome Trust Senior Research Fellow Institute of Evolutionary Biology University of Edinburgh Kings Buildings, West Mains Rd EH9 3JT

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number

UEdinburgh HIV phylogenetics

University of Edinburgh

Institute of Evolutionary Biology

Postdoctoral Research Fellow

HIV PHYLODYNAMICS

Salary: GBP 32,795 ? GBP 39,160 per annum

An evolutionary biologist or infectious disease epidemiologist is required to join the group of Professor Andrew Leigh Brown on an MRC-funded position to analyse HIV sequence data to infer the structure of the transmission network in the UK population using time-resolved phylogenies. See PLoS Med 5(3): e50 2008 for an example of this application of phylogenetics.

There is a full background with links to publications at: <http://www.hivbio.org> A PhD and a background in one of epidemiological modelling, molecular evolution or computational biology is required; some experience in viral evolutionary analysis would be helpful. The post is fixed-term up to 14 months from December 1st 2008.

Applications should be made through the University website: <http://www.jobs.ed.ac.uk>, quoting reference 3009991, by 10th November 2008.

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

A.Leigh-Brown@ed.ac.uk A.Leigh-Brown@ed.ac.uk

UFlorida EvolutionarySystemsBiol

Post-Doctoral researchers in evolutionary systems biology/statistical genomics/bioinformatics

There are openings for three postdoctoral research associates at the University of Florida Genetics Institute. The successful applicants will be able to choose among a variety of collaborative projects focused on the anal-

ysis of genomic and proteomic data and the development of tools to facilitate analytical approaches to large datasets. Some of the projects include: association mapping in human populations, allele specific expression in *Drosophila*, comparative genomics of pathogenic bacteria, integration of genomic and proteomic data in host pathogen interactions, association mapping in complex pedigrees. Skills expected include: knowledge and interest in Genetics (particularly Evolutionary Genetics) and Genomics, as well as substantial quantitative skill. Candidates with PhDs in Evolutionary Biology/Genetics/Statistics/Computer Science/ Engineering will be considered for this position. The work will be highly interdisciplinary and require interaction among a diverse group of scientists. The most important qualities are analytic thinking and problem solving, highly developed writing skills, and a genuine interest in working in a successful team. The investigators expect that the postdocs hired will also form a complementary team and synergistic relationships will develop between the new postdocs and three postdocs currently working in the group. The initial term of the position is one year, with renewal for up to three years, pending successful analytic and writing endeavors. For the position with Dr. McIntyre some lab skills in RNA work and experience with *Drosophila* is preferred but not required. For the position with Dr. Casella a PhD in Statistics is required, along with some experience/course work in genetics. For the position with Dr. Riva, an interest towards bioinformatics and some programming experience are desirable. Please apply directly to Dr. Lauren McIntyre (mcintyre@ufl.edu), Dr. George Casella (casella@ufl.edu), or Dr. Alberto Riva (ariva@ufl.edu). Dr. McIntyre's research is in the area of mapping genotype to phenotype; Dr. Casella is a statistician with a strong interest in association mapping problems; and Dr. Riva is a bioinformaticist with interest in translational bioinformatics, SNP analysis and genomic knowledge management.

Please see http://bioinformatics.ufl.edu/-pages_for_people/faculty.html for more details on the individual programs.

Lauren McIntyre <mcintyre@mgm.ufl.edu>

UGeorgia EvolutionaryBiology

The Computational Systems Biology Lab (<http://csbl.bmb.uga.edu>) of the University of Georgia is seek-

ing applications for a Post Doctoral Associate position to work on developing computational tools and a database for horizontal gene transfer prediction and analysis in microbial genomes in a new NSF "Tree of Life" project. The successful applicant should have a Ph.D degree in computational biology, evolutionary biology, or computer science with a good understanding of biology, and should have substantial experience in computer programming and knowledge in database development. Previous experience in phylogenomics tool development will be a big plus. Interested applicants should contact Prof. Ying Xu via jy@uga.edu.

Yanbin Yin <yinyb@csbl.bmb.uga.edu>

UGeorgia PlantAgeingQuantGenet

I am hiring a post-doctoral scientist for a project dealing with the evolution of ageing in long-lived herbaceous perennials. I am looking for candidates with expertise and experience with plant breeding and quantitative genetics, who also have broad interests in plant evolutionary ecology. The chosen individual will be expected to contribute to existing projects in the lab, to mentor graduate and undergraduate students, and to develop independent projects. Expected starting date is 1 July 2009, although later dates may be negotiated. To apply, please send cover letter, CV, and names and contact info for three references to: Dr. Richard P. Shefferson, Odum School of Ecology, University of Georgia, 140 E. Green St., Athens, GA 30602, e-mail: dormancy@uga.edu. Deadline for applications is 7 Nov 2008. Please see www.sheffersonlab.com for more details about the lab and current projects. Informal inquiries welcome.

– Richard P. Shefferson, Ph.D. Assistant Professor of Evolutionary Ecology Odum School of Ecology University of Georgia 140 E. Green St. Athens, GA 30602 USA

Web: www.sheffersonlab.com dormancy@gmail.com

UGeorgia PlantFungalEvolutionaryEcol

I am seeking to fill a post-doctoral position to contribute to ongoing research efforts to understand the role of the mycorrhiza in determining the population, community, and evolutionary ecology of long-lived herbaceous perennial plants. The ideal candidate will have broad expertise in ecological genetics, will be expected to develop protocols for ongoing projects, will serve as a mentor for students in the lab, and will be expected to develop novel projects in plant/fungal evolutionary ecology.

Requirements include strong laboratory skills and expertise with DNA-based molecular methods (particularly DNA-based genotyping protocols, including but not limited to microsatellites and sequencing), strong communications skills, expertise with current analytical methods and theory, and a strong interest in evolutionary ecology. While not required, expertise and experience with plant breeding or quantitative genetics will also be viewed as positive assets.

Responsibilities will include the development and maintenance of research projects, laboratory work, supervision of graduate and undergraduate students, presentation at research conferences, and field work (local, national, and international). Starting date is 1 July 2009, though later dates may be negotiated. Salary is commensurate upon experience. The appointment is expected to last for 2-3 years.

Applicants should have completed a PhD degree in plant biology, ecology, evolutionary biology, molecular biology, or a related field by the start of the appointment. Informal inquiries are welcome (send e-mail to: dormancy@uga.edu). To apply, please send a cover letter, your CV, and names and full contact info for three references to: Dr. Richard P. Shefferson, University of Georgia, Odum School of Ecology, 140 E. Green St., Athens, GA 30602, USA. E-mail: dormancy@uga.edu.

– Richard P. Shefferson, Ph.D. Assistant Professor of Evolutionary Ecology Odum School of Ecology University of Georgia 140 E. Green St. Athens, GA 30602 USA

Web: www.sheffersonlab.com dormancy@gmail.com

UHelsinki MarinePhylogeography

We are inviting applications for a postdoctoral position at the University of Helsinki, Finland, to work in a project that will address the connections between North

Atlantic and North Pacific faunas.

The project will use molecular marker data for a comparative phylogeographic analysis of several fish and invertebrate taxa, to assess the history of trans-Arctic connections during the Pleistocene. The research will address the generality of the hypothesis that the amphiboreal populations in the two oceans were repeatedly reconnected by invasion events across the polar seas, and that hybridization following such contacts of differentiated sister lineages or taxa may have been important in determining the assembly and diversity of current boreal communities - or will be in the future, following the ongoing warming of polar environments.

We are looking for an enthusiastic individual keen to work in the molecular laboratory and curious about exploring the signals of biogeographic history in the genomes of marine organisms, using current tools of data analysis. The post-doc is expected to have solid background in DNA techniques, and good organizational skills, to assume responsibilities in molecular marker development and in arranging sample collection, including fieldwork.

The position is in the research group of Dr. Risto Vainola, based at the Finnish Museum of Natural History and at the Molecular Ecology and Systematics laboratory of the University of Helsinki. The project is funded by the Academy of Finland.

The position will be available for two years, to start in the first half of 2009. Deadline for applications is November 20, 2008.

For further information on the project and the research group, contact details, and for instructions on how to apply, please visit <http://www.fmnh.helsinki.fi/-vainola>.

Dr. Risto Vainola Finnish Museum of Natural History, POB 17 FIN-00014 University of Helsinki, Finland vce +358 44 588 6868 fax +358 9 191 28888 risto.vainola@helsinki.fi <http://www.fmnh.helsinki.fi/vainola> . risto.vainola@helsinki.fi risto.vainola@helsinki.fi

UKonstanz MolecularEvolution

Ph.D. and Postdoc Positions à molecular evolution, genomics & bioinformatics

At the University of Konstanz we expect to have a postdoc and a Ph.D. position available starting on January

1, 2009 in the lab of Prof. Axel Meyer at the Department of Evolutionary Biology and Zoology at the University of Konstanz in Germany.

Through funding of the University of Konstanz by the "excellence initiative" of the German government we are in the process of establishing a genomics/proteomics center that will include microarray facilities and second generation sequencing technologies. Therefore, we are particularly interested in Ph.D. candidates and postdocs with expertise in molecular evolution, molecular phylogenetics and bioinformatics. We expect that a "junior professorship" in bioinformatics will be advertised shortly as well.

These positions are affiliated also with the new graduate school in chemical biology - for more information visit <http://www.chembiol.uni-konstanz.de/>.

RESPONSIBILITIES: The projects we are interested in have to do with fish genomics and in particular comparative genomics of cichlid fish. Other potential projects deal with the evolution of gene families the evolution of the genome in early chordates and vertebrates. Candidates should have a strong interest in bioinformatics, developmental and evolutionary biology and should be experienced in molecular techniques and/or computational biology.

TERMS: Appointments are for up to two years initially with a salary according to the German postdoc salary scale (approximately 58,000 Euros annually before the deduction of taxes and health and retirement benefits). The initial contract period would be for two years with the potential for additional years of funding. The Ph.D. position comes with a fellowship of 1400 Euros per month for a three-year period.

HOW TO APPLY: Informal inquiries should be addressed to Axel Meyer (axel.meyer@uni-konstanz.de). Further information on our research can be obtained from our web page: www.evolutionbiologie.uni-konstanz.de Applications should include a CV, statement of research interests and email addresses of two references. Applications should be sent as one pdf file to axel.meyer@uni-konstanz.de. This search will remain open until the positions are filled.

Review of applications will commence on November 15th 2008.

Interviews will be conducted in December 2008 in Konstanz.

Starting dates are flexible.

Prof. Axel Meyer, Ph.D. Lehrstuhl für Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz

Germany email: axel.meyer@uni-konstanz.de
fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Ingrid.Bader@uni-konstanz.de tel. + 49 (0)7531 88 3069

www.evolutionbiologie.uni-konstanz.de Axel Meyer
<axel.meyer@uni-konstanz.de>

ULyon Cophylogenetics

The main objective of the project is to develop cladogenesis inference methods in order to better understand how tight is the association between symbionts, more specifically endosymbionts, and their hosts. Some of the questions we wish to address are, how often are symbionts horizontally transferred among branches of the host phylogenetic tree, how long do symbionts persist inside their host following the invasion of a new lineage, and what processes underlie this dynamic gain/loss equilibrium? These questions will be addressed by applying the newly developed methods to a massive sequence dataset covering arthropod-symbiont communities from Tahiti and three surrounding islands.

This work will be conducted with Marie-France Sagot in the BAOBAB-BAMBOO teams (see <http://biomserv.univ-lyon1.fr/baobab/> Biometry & Evolutionary Biology lab, University of Lyon, CNRS, INRIA, France) in very close collaboration with Sylvain Charlat (CNRS).

The postdoc is part of a vaster project funded by the National Research Agency on the combinatorial exploration of the molecular landscape and evolution of intimate species relations. The position is for one year renewable once and should start in December 2008.

The candidate is expected to have a solid training in mathematics (combinatorics, possibly also statistics) and / or Evolutionary biology (phylogenetics). He/she should also enjoy team-work. Atypical profiles are welcome.

For further enquiries, please contact Marie-France Sagot (email: Marie-France.Sagot@inria.fr), ideally before Oct. 15, 2008, with a CV, the names of three references who may be contacted for further information and an informal letter explaining your motivation for this position/work.

charlat@biomserv.univ-lyon1.fr

charlat@biomserv.univ-lyon1.fr

UManchester Regulatory Evolution

University Of Manchester Faculty Of Life Sciences
Post Doctoral Research Associate - Evolution of Gene Expression (Ref LS/81181)

Based in the laboratory of Dr. Casey Bergman, we seek a capable and enthusiastic computational biologist to study the evolution of gene expression in *Drosophila* as part of a HFSP-funded project in collaboration with Dr. Uwe Ohler (Duke University, Durham, USA) and Dr Pavel Tomancak (Max Planck Institute for Molecular Cell Biology and Genetics, Dresden, DE). This project will involve the analysis of genome-wide sequence and expression data within and among species of *Drosophila* to gain insight into the evolutionary forces that control changes in transcriptional regulation across developmental stages.

You should have (or expect to hold shortly) a relevant PhD or equivalent appropriate postdoctoral level experience in Bioinformatics/Computational Biology, Evolutionary Biology, Gene Expression, Computer Science or related disciplines. This position is tenable for up to 3 years and salary will be £27,466 - £33,780 per annum.

Information on computational biology research at the University of Manchester can be found at: <<http://www.manchester.ac.uk/bioinformatics>>.

Informal enquiries can be addressed to: Dr. Casey Bergman Tel: +44 (0)161 275 1713 Email: casey.bergman@manchester.ac.uk < <http://www.bioinf.manchester.ac.uk/bergman/> >

Application forms and further particulars can be obtained by contacting: The Directorate of Human Resources: Tel: ++44 (0) 161 275 8836 Email: Lifesciences-hr@manchester.ac.uk < <http://www.manchester.ac.uk/aboutus/jobs/research> >

casey.bergman@manchester.ac.uk
casey.bergman@manchester.ac.uk

UMissouriColumbia CompAnimalGenomics

Post-doctoral position in computational vertebrate genomics

I would like to invite applications for a two year post-doctoral position in vertebrate computational genomics in my lab at the University of Missouri, Columbia. Potential projects include a) understanding the interrelationship between population size, natural selection and protein structure in molecular evolution b) assembly and annotation of large scale sequence data (from 454/Solexa instruments) from vertebrates and their microbial associates c) searching for evidence of directional selection in single copy genes that once possessed a paralog produced by genome duplication and d) assessing the metabolic differences between vertebrates using comparative genomics and network biology. More information on my research interests can be found at <http://wolfe.gen.tcd.ie/gconant> Review of applications will begin on November 30th and continue until the position is filled. Applicants with a Ph. D. in any field of natural science or engineering will be considered. Knowledge of Perl, c++, or relational databases is preferred.

Interested parties should send a cover letter describing their research interests, a CV, and the names and addresses of two references to:

Gavin Conant
conantg@missouri.edu

Gavin Conant
F21C Animal Reproductive Biology Group 163B Animal Science Research Center 920 East Campus Drive University of Missouri Columbia, MO 65211 Phone: 573-882-2931 Email: conantg@missouri.edu Web: <http://wolfe.gen.tcd.ie/gconant> conantg@missouri.edu

UNewOrleans ComparativePhylogeography

Postdoctoral Fellowship in Evolutionary Ecology

The Department of Biological Sciences, University of New Orleans invites applications for a postdoctoral fellowship in Evolutionary Ecology to join an integrative project examining comparative phylogeography and co-evolution in Cuatrociénegas, Mexico. Cuatrociénegas has sometimes been called the "North American Galapagos" because of the incredible number of endemic

species in this unique desert oasis. This project will be integrated into long-term studies of conservation, ecology, and evolutionary biology that are being done in collaboration with several other labs in the United States and Mexico. See <http://biology.uno.edu/sgjohnso/> for more information about this project. Competent to fluent Spanish speaking skills are highly desirable as is the ability to work under strenuous field conditions. Applicants must have a Ph.D. in Evolutionary Biology, Ecology or related fields. Submit a curriculum vitae and names/email addresses for three references to Steve Johnson (sgjohnso@uno.edu). Review of applications will begin Nov. 1 and continue until position is filled. UNO is an AA/EO employer.

Steven G. Johnson Interim Dean, College of Sciences Professor, Department of Biological Sciences University of New Orleans New Orleans, LA 70148 504-280-6303 504-280-7483 (Fax)

Steven G Johnson <SGJohnson@uno.edu>

UOtago NZ Microsatellite evolution

UNIVERSITY OF OTAGO Te Whare Wananga o Otago

Dunedin, New Zealand

Postdoctoral Fellow (Fixed-term)

DEPARTMENT OF ANATOMY AND STRUCTURAL BIOLOGY OTAGO SCHOOL OF MEDICAL SCIENCES

Microsatellites are abundant, highly variable, repeated DNA sequences that are regarded as the most versatile genetic markers yet discovered. They are a cornerstone of the current biological revolution and are used in gene mapping, in DNA forensic work, and as population markers. Conclusions drawn from such studies in many cases depend critically on assumptions about how microsatellites evolve. Despite its importance, our understanding of microsatellite evolution remains surprisingly sketchy. Current models of microsatellite evolution are overly simplistic and almost certainly incorrect, potentially leading to widespread data misinterpretation. In particular, genetic recombination, whilst known to be the major generator of genomic variability, is widely regarded as a minor contributor to microsatellite evolution, if indeed it contributes at all. Here we seek to quantify the extent and nature of microsatellite mutation, and, for the first time, explicitly examine the

role of sexual recombination in generating microsatellite variability, using near identical yeast strains that variously do and do not engage in sex, and thus recombination. If, as we suspect, recombination is an important force in microsatellite evolution, evolutionary models will need to be modified, potentially with far-reaching consequences for how we analyse and interpret microsatellite data and for our understanding of trinucleotide repeat disorders, such as Fragile X and Huntington's disease.

Applications are invited from postdoctoral candidates who have experience in molecular and population genetics. The Department offers opportunity to work in studies using leading edge DNA technologies. The successful candidate will have skills in molecular genetic techniques, particularly genotyping and sequencing, be highly skilled in analysis of genetic data and statistics, and be self-motivated and able to work alongside a wide variety of people.

Specific enquiries may be directed to Professor Neil Gemmell, Department of Anatomy and Structural Biology, Tel 03 479 6824, Fax 03 479 7254, Email neil.gemmell@otago.ac.nz.

Applications quoting reference number A08/150 close on Monday 1 December 2008.

APPLICATION INFORMATION

With each application you must include an application form, an EEO Information Statement, a covering letter, contact details for three referees and one copy of your full curriculum vitae. For an application form, EEO Information Statement and a full job description go to: www.otago.ac.nz/jobs <<http://www.otago.ac.nz/jobs>> Alternatively, contact the Human Resources Division, Tel 03 479 8269, Fax 03 479 8279, Email job.applications@otago.ac.nz <<mailto:ling.chong@stonebow.otago.ac.nz>>

Equal opportunity in employment is University policy.

E tautoko ana Te Whare Wananga o Otago i te kaupapa whakaorite whiwhinga mahi.

Neil J. Gemmell Professor and Director Centre for Reproduction and Genomics Department of Anatomy & Structural Biology University of Otago, PO Box 913 Dunedin 9054 New Zealand

Phone: +64 3 479 6824 Fax: +64 3 479 7254 e-mail: neil.gemmell@otago.ac.nz

UParisSud Metagenomics

METAGENOMICS - 3-YEAR POSTDOCTORAL POSITION AT THE UNIVERSITY OF PARIS-SUD (FRANCE)

A 3-year postdoctoral contract funded by the French “National Research Agency ANR” is available from January 2009 to participate in the research project EVOLDEEP (Evolutionary and population genomics of deep-sea uncultivated microorganisms) coordinated by Purificación López-García. Work will be carried out in the “Microbial diversity and evolution” team in the University of Paris-Sud at Orsay (<http://www.esesud.fr/microbiologie/>), which is located 25 km south from Paris, 30 min by suburban train.

The project aims at reconstructing and comparing complete genome scaffolds of uncultured deep-sea planktonic archaea (both crenarchaeota and euryarchaeota) from genome fragments archived in metagenomic fosmid libraries in our lab. The work will include the identification of archaeal fosmids in existing libraries that will be completely sequenced, providing the basis for scaffold genome assembly. Genome scaffolds will be annotated and analysed, with especial attention to comparative analyses in order to make inferences about the metabolism and the evolution (phylogeny, population genomics, recombination, horizontal gene transfer) of these uncultured archaeal lineages.

The net salary will be around 2000 euros (including social security and medical assistance) depending on the applicant’s experience.

We are seeking motivate candidates with good experience in genome assembly, annotation and comparative genomics. Skills in programming and database management will be appreciated.

Candidates should send a CV, a cover letter and the names of at least two referees to:

Purificación LOPEZ-GARCIA

Unité d’Ecologie, Systématique et Evolution - CNRS UMR8079 Université Paris-Sud 11, bâtiment 360, 91405 Orsay Cedex, France Phone: (+33) 1 69 15 76 08; E-mail: puri.lopez@u-psud.fr <http://www.esesud.fr/microbiologie/> “puri.lopez” <puri.lopez@u-psud.fr>

UppsalaU EvolutionaryGenomics

Postdoctoral research fellowship in evolutionary genomics at Uppsala University, Sweden

A postdoctoral fellowship is available at the Department of Evolutionary Biology at Uppsala University. The postdoc is in the research-group of Dr. Hanna Johannesson, and will focus on the evolution of the mating-type chromosome in the filamentous ascomycete *Neurospora tetrasperma*. The fellowship is for one year, with a high likelihood of extension.

Recent studies have revealed that chromosomal regions controlling sexual identity in the fungal kingdom share features with the more complex sex chromosomes of algae, plants and animals. Our group have combined gene divergence data, classical genetics and phylogenetics to show that the mating-type chromosome of *N. tetrasperma* resemble the sex chromosomes in that recombination suppression involved more than one evolutionary event, covers the majority of the chromosome and is flanked by distal regions with obligate crossovers. Now, we aim at exploring the system further by using a bioinformatics and/or a molecular biology approach. This postdoc project can be developed after the interest of the applicant, and could involve revealing structural or autosomal gene influence on the recombination block, and the evolutionary history of the chromosome in different phylogenetic lineages of the species.

The Program in Evolutionary Biology (<http://www.egs.uu.se/evbiol/index.html>) is situated in the Evolutionary Biology Centre in central Uppsala. The working atmosphere is international with English as working language. The Evolutionary Biology Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, with research programs including ecology, systematics, genetics, genomics, and developmental biology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes with train from Stockholm.

Required qualifications for applicants are 1) a PhD in Biology, Genetics, Evolutionary Biology, Microbiology, or related field, 2) experience in one or several of the following areas: molecular biology, bioinformatics, population genetics, evolutionary biology, genetics, microbiology, mycology, and 3) demonstrated verbal and writ-

ten communication skills in English.

Start date ASAP. Review of applications will begin immediately and continue until the position is filled.

To apply, send your CV, including contact information for two references, and a cover letter stating your research interest to:

Dr Hanna Johannesson, Uppsala University, Department of Evolutionary Biology, Norbyvägen 18D, SE-752 36 Uppsala, Sweden

E-mail: hanna.johannesson@ebc.uu.se E-mail: hanna.johannesson@ebc.uu.se

USouthernCalifornia SpeciationGenetics

A postdoctoral position is available in the laboratory of Suzanne Edmands at the University of Southern California. The postdoc would work on an NSF-funded project using the marine copepod *Tigriopus californicus* to test predictions concerning how the absence of degenerate sex chromosomes impacts the genetic architecture of postzygotic isolation. The work involves supervision of a large-scale breeding study, development and mapping of SNP markers, and QTL analyses.

The ideal candidate would be a recent Ph.D. with a strong background in quantitative and molecular genetics. Experience with SNPs and/or QTL mapping is highly desirable. The position is available as early as January 2009 and applications will be considered until the position is filled. Initial appointment is for one year, renewable for a second year.

Please apply via email to Suzanne Edmands (sedmands@usc.edu) and include a cover letter describing your research experience and interest in the position, your CV, and contact information for three references.

– Suzanne Edmands Associate Professor Department of Biological Sciences 3616 Trousdale Parkway, AHF 316 University of Southern California Los Angeles, CA 90089 (213)740-5548 <http://college.usc.edu/labs/-edmands/home/index.cfm> edmandss@gmail.com

UTartu Estonia Phylogenetic Comparative Methods

Dear colleagues,

please forward the information below to any potential candidates,

yours gratefully, Toomas Tammaru

Toomas Tammaru professor of zoology <http://www.ut.ee/~tammarut> Position in evolutionary ecology available: comparative methods

We wish to recruit a post-doctoral researcher in evolutionary ecology to undertake research using PHYLOGENETIC COMPARATIVE METHODS. The position will be opened at the recently established Centre of Scientific Excellence 'Frontiers in Biodiversity Research' (FIBIR) at the Institute of Ecology and Earth Sciences, University of Tartu, Estonia (http://www.ut.ee/index.aw/set_lang.id=3D2). The successful candidate will work in Prof. Toomas Tammaru's (<http://www.ut.ee/~tammarut>) research group, whose primary focus is the life history evolution of insects. Having mainly relied on experimental methods to date, the group is looking to incorporate phylogenetically explicit comparative approaches. The strengths of the group include a rare combination of in-depth knowledge about the taxonomy and life-history of insects (mainly Lepidoptera), and a productive interest in various evolutionary biology questions. For the postdoc researcher, we have particular research questions in mind (see e.g. Snäll et al. 2007 Biological Journal of the Linnean Society, 92: 241-252), and respective data sets available, but the work profile is largely flexible. The successful candidate will be encouraged to collaborate with other research groups, both at FIBIR (other research directions include, but are not limited to, plant community ecology, physiological evolutionary ecology of birds, conservation biology and molecular systematics of various taxa) and elsewhere. Funding is presently available for 24 months, though there is a strong possibility that this can be extended, subject to the candidate's performance. FIBIR offers an excellent research environment within a modern infrastructure. The salary level corresponds to that of European Union framework projects and is open to negotiation. The position is available from 1st February, 2009, though the start date is flexible. The successful candidate is ex-

pected to have a strong publication record, and solid experience with various methods of phylogenetic comparative analysis is essential. Previous experience with insect life history research is not necessary. In the case of very strong candidates (excellent publication record and very good skills in comparative analyses), it would be possible to transform the post-doctoral position into that of a senior researcher. If interested, please provide your CV, a list of publications and a cover letter by 30th November, 2008. For this purpose, and for informal enquiries, please contact Toomas Tammaru at toomas.tammaru@ut.ee.

tammarut@ut.ee tammarut@ut.ee

UTours Bioinformatics Virus Evolution

Evolution, Virus, Comparative Genomics, Bioinformatics, France

University of Tours, France Insect Biology Research Institute (IRBI) UMR CNRS 6035

Postdoctoral Research Associate in Bioinformatics Comparative genomics of polydnviruses and insect viruses Starting Salary 30,000 per annum; Starting from January 2009; initially 2 years funding Closing date for application: 10th October 2008

We are seeking a highly motivated candidate to fill the post of research associate within the Institute for Insect Biology Research at the University of Tours (France). The successful candidate will join a new team lead by Dr Elisabeth Herniou and funded by the European Research Council (ERC) to work on the adaptation of virus genomes to insect immunity. You will conduct scientific research on viral genomic evolution associated with the adaptation to insect hosts. You will be required to apply a number of bioinformatics techniques including genome sequence annotation, database management, comparative genomics and phylogenetics. You will perform independent and original research and prepare results for publication to refereed journals. To be considered for this position, you will hold a PhD or equivalent level of professional qualification in bioinformatics or evolutionary biology. You will also have a solid background in bioinformatics and comparative genomics and a strong interest in evolutionary biology. Fluency in French is not essential but would be a bonus.

Please contact Dr Elisabeth Herniou

(elisabeth.herniou@univ-tours.fr) for more information Application consisting of cover letter, curriculum vitae and the name and contact details of three referees should be sent by e-mail to elisabeth.herniou@univ-tours.fr or by post to: Dr Elisabeth Herniou, Institut de Recherche sur la Biologie de l'Insecte, UMR CNRS 6035, Faculté des Sciences, Parc Grandmont, 37200 Tours, France; Closing date 10 October 2008.

elisabeth.herniou@univ-tours.fr
elisabeth.herniou@univ-tours.fr

Vassar College Plasticity

Post-doctoral Position: Molecular mechanisms of phenotypic plasticity

Start-Date: January/February 2009

Nutrition and Life History Transitions: Condition-dependent stress responses and metamorphic timing in amphibians

This post-doctoral position involves investigating how nutrition affects stress response and developmental timing in amphibian tadpoles, and how nutritional state of the tadpole affects the fitness consequences after metamorphosis. This project will involve field and laboratory experiments and molecular, physiological, and behavioral analyses to characterize the interactions between neuroendocrine energy balance indicators (e.g., neuropeptide Y, leptin) and stress axis in an ecological and evolutionary context. In addition, applicants will have the opportunity to conduct related experiments according to interest, and obtain experience teaching and advising undergraduates at a liberal arts college setting. This post-doctoral position will also will involve interactions with the Cary Institute of Ecosystems Studies located in nearby Millbrook, NY.

Anyone graduating with a Ph.D. by Dec. 2008 or May 2009 with a background in behavioral ecology or evolutionary biology (particularly in the areas of phenotypic plasticity or evolution of life histories), who is interested in gaining molecular biology skills and broadening her/his areas of expertise is encouraged to apply. Experience in experimental design, statistics, or fieldwork is desirable but not necessary. Specific analytical tools will include real-time qPCR, in situ hybridization, immunocytochemistry, radioimmunoassay, behavioral bioassays. Funding is provided by the National Science Foundation and is available for up to 2.5 years.

Vassar College is located in Poughkeepsie, NY (1.5 hr from NYC), attended by approximately 2,400 undergraduates and is one of the leading liberal arts colleges in the USA. If interested, contact Erica Crespi: ercrespi@vassar.edu.

Erica Crespi <ejcrespi@gmail.com>

Vienna GeneExpressionEvolution

A 2-year postdoctoral position is available to work on the evolution of gene expression in *Drosophila*

Background: The recent technological breakthrough of massively parallel sequencing has the potential to replace currently existing methods for expression profiling. In addition to intraspecific transcriptome analyses, this method also allows the comparison of gene expression between species.

The successful candidate will serve a central role in bridging the gap between experimentalists generating expression data and functional biologists performing tests on interesting obtained from the expression anal-

yses. We are searching for an individual with strong bioinformatic skills, a solid background in biology, and excellent communication aptitude.

The post is based at the Institute of Population Genetics at the VUW, Vienna. The Vienna Research Area has a strong network of research groups interested in population genetics, statistical genetics and bioinformatics providing an excellent scientific environment (e.g. N. Barton, R. Bürger, U. Diekmann A. Futschik, A. v. Haeseler, J. Hermisson, I. Hofacker, C. Kosiol, P. Schuster, K. Sigmund, C. Vogl).

The position is immediately available and the search continues until the position is filled.

Applications should be sent to C. Schlötterer (christian.schloetterer@vu-wien.ac.at), including the names and emails of two academic references and a brief description of the research interests.

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

phone: +43-1-25077-4300 fax: +43-1-25077-4390
<http://i122server.vu-wien.ac.at/pop/-pop-gen.html> christian.schloetterer@vu-wien.ac.at
christian.schloetterer@vu-wien.ac.at

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**ImperialCollegeLondon
 AntibioticResistanceEvolution
 Jan14-15**

First announcement - EPSRC Workshop: Evolution of Antibiotic Resistance, 14-15 January 2009, Imperial College London, UK

This EPSRC funded workshop will bring together experts in genotyping, experimental evolution and mathematical modeling. For more details and 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 Ann Linfield (masadl at bath.ac.uk)

I.GUDELJ@imperial.ac.uk I.GUDELJ@imperial.ac.uk

Portal NewMexico StatisticalPhylogeography

Course Advertisement:

Statistical Phylogeography course at the AMNH Southwestern Research Station near Portal, New Mexico. This course will cover several advanced topics in statistical approaches to the analysis of phylogeographic data, including those based on Monte Carlo simulations and parametric bootstrapping, approximate bayesian computation, various power analyses, and approaches to estimating species trees from gene trees. Participants will be asked to bring their own data to the course, and the design and implementation of analyses for individual data sets will be emphasized. To facilitate these analyses, students will learn some basics of UNIX and R.

Course requirements: participants must bring a laptop computer running either Mac OSX or Linux operating systems. We suggest that participants install R and perl prior to arrival, as well as several other open source programs (such as ms, seq-gen, msBayes, MrBayes, and Mesquite). Participants will have access to wireless internet at the SWRS, and will be encouraged to conduct analyses remotely on servers at their universities. People who are interested in attending this class should send a brief letter and a CV to swrs.statistical.phylogeography@gmail.com by December 15th, 2008.

Instructors Bryan Carstens Assistant Professor, Louisiana State University <http://www.lsu.edu/faculty/carstens/> Mike Hickerson Assistant Professor, Queens College, City University of New York <http://qcpages.qc.cuny.edu/Biology/fac.stf/hickerson.php> Naoki Takebayashi Assistant Professor, University of Alaska Fairbanks <http://www.faculty.uaf.edu/ffdew2/labMembers.html> Course Dates Participants will arrive at the SWRS on Sunday, April 5th. There will be a brief reception Sunday evening, and the first classroom session will begin on Monday, April 6th. The workshop will end at noon on Friday, April 10th.

Course Fees Course fees (including room & board at the SWRS) will be \$900

Course Web-page: <http://www.lsu.edu/faculty/carstens/SWRSstatphylo.html> –

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“Bryan C. Carstens” <carstens@lsu.edu>

UAuckland StatisticalGenetics Dec9-16 RegistrationOct27

The early-bird registration deadline for the Summer Institute in Statistical Genetics at the University of Auckland, New Zealand, December 9-16, is next Monday, October 27. Registration fees will increase after that date.

Some of the modules are nearly full. Details about the Institute and registration are at <https://www.stat.auckland.ac.nz/sig2008/> Bruce Weir (bsweir@u.washington.edu) Sharon Browning (s.browning@auckland.ac.nz)

Bruce Weir <bsweir@u.washington.edu>

UColorado PhDstudents PlantHomology Jan16-18

The NSF Molecular and Organismal Research in Plant History (MORPH) Research Coordination Network is hosting a workshop/minicourse titled, “Homology: Conceptual and Historical Integration from the Morphological to the Molecular” at the University of Colorado, Boulder from January 16th-18th, 2009.

This intensive workshop and minicourse will provide an opportunity for a select group of doctoral students and

distinguished investigators in plant evolutionary developmental biology to interact. The goal will be to address conceptual hurdles associated with the analysis of homology. In particular, participants will focus on the integration of molecular, organismic, and phylogenetic data to address long standing questions of homology in plants. Each participant will outline critical issues associated with his/her evolutionary developmental research program and there will be extensive discussion.

MORPH will cover all travel costs for a select group of doctoral students. The application deadline is November 13th, 2008. For applications and more details, please see <http://www.colorado.edu/eeb/MORPH/grants/minicourses/minicourse2009.html>.

Please contact William (ned) Friedman (ned@colorado.edu) with any questions.

Rob Baker

PhD Candidate MORPH RA

Dept. of Ecology and Evolutionary Bio Ramaley N122 Campus Box 334 University of Colorado Boulder, CO 80309 <http://www.colorado.edu/eeb/MORPH> "robert.baker@colorado.edu" <Robert.Baker@Colorado.EDU>

UMichigan SpeciesTrees Jan10-11

NOTE: Given the level of interest in the workshop, we have increased the number of participants that may attend the computer training to 60. There is not a constraint on the number of people that may attend the seminars on Jan 10 - see website for details and registration.

Workshop at the University of Michigan, Jan 10-11, 2009

Estimating Species Trees: a Phylogenetic Paradigm for the 21st Century

Recent computational and modeling advances have produced methods for estimating species trees directly. Accurate estimates of phylogenetic relationships can be extracted from genetic data with these new approaches, sometimes with less data, by directly modeling the causes of discordance in topology and branch lengths among gene trees. Such inferences are commonly impossible under the traditional phylogenetic paradigm because of the potential for the idiosyncrasies of gene trees to obscure the actual history of species divergence.

We are offering this workshop to not only increase the visibility and use of these methods, but also address a number of significant challenges to estimating species trees, to assure that the advantages these methods offer reach a broad community of users. The goals of the workshop are to: (i) provide an understanding of the theoretical underpinnings of current methodology, (ii) present empirical examples demonstrating the utility of current methodology as well as its limitations, and (iii) offer instruction on the technical aspects involved in using current software. This will be accomplished through the combination of a series of lectures (day one) and hands-on computer training (day two). Participation in the workshop requires registration (go to <http://www.ummz.lsa.umich.edu/sptree.html>) and is free for those attending the lectures (on Jan 10) and is \$25 for those attending the computer training (on Jan 11; see website for programs that will be covered). To facilitate broad and diverse participation in this important workshop, funding is available to offset transportation and lodging costs (i.e., \$500 for those from the US and \$1000 for international participants - see website for details on how to apply).

Co-organizers: L. Lacey Knowles, University of Michigan, and Laura S. Kubatko, Ohio State University

Location of the workshop: University of Michigan, January 10-11, 2009.

Invited speakers for workshop: Liang Liu, Harvard University Laura Kubatko, Ohio State University Dennis Pearl, Ohio State University CA@lcile An@, University of Wisconsin James Degnan, University of Canterbury L. Lacey Knowles, University of Michigan Luay Nakhleh, Rice University Karen Cranston, University of Arizona Bret Larget, University of Wisconsin Robb Brumfield, Louisiana State Univ. Lisle Gibbs, Ohio State University Scott Edwards, Harvard University Catherine Linnen, Harvard University Natalia Belfiore, University of California, Berkeley

For more information please contact: Dr. L. Lacey Knowles, knowlesl@umich.edu <<mailto:knowlesl@umich.edu>>

This workshop has been made possible by funds generously provided by the Museum of Zoology, University of Michigan.

"Knowles, L" <knowlesl@umich.edu>

UMichigan SpeciesTrees Jan10-11

Workshop at the University of Michigan, Jan 10-11, 2009

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“Knowles, L” <knowlesl@umich.edu>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include

encoded attachments and do not send it as Word files, as HTML files, as \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 formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterward

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.