
E v o l D i r

December 1, 2007

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.



Forward	1
Conferences	2
GradStudentPositions	8
Jobs	39
Other	66
PostDocs	76
WorkshopsCourses	99
Instructions	101
Afterward	101

Conferences

Barcelona SMBE2008 Jun5-8 CallForSymposia Deadline 2 CzechRepublic EvolOfHemiparasiticPlants Aug27-30 2 Eugene Oregon Evolution Apr4-62 Hungary AnimalCooperation Jan17-20 3 Marseilles 11thEvolBiolMeeting Sep19-21 33 Montpellier MathInformatics EvolPhylogeny Jun10-12 4 Oeiras Portugal EvolBiol Dec21 4	Paris Dispersal Dec6-7 4 Paris Dispersal Dec6-7 program 5 Paris HostParasite Dec5 2 5 Uppsala QTL-MAS May15-16 6 UtrechtU GdeJongFarewellSymp Nov23 6 UWarwick PopGenetics Dec17-20 DeadlineNov20 ...7 Winchester ArtificialLife Aug5-87
---	--

Barcelona SMBE2008 Jun5-8 CallForSymposia Deadline

Dear EvolDir members,

This is a reminder that the deadline for the Call of Symposia of the 2008 annual meeting of the Society for Molecular Biology and Evolution is November 16th.

More information about the meeting in www.smb2008.com and in www.smb2008.org Sincerely yours,

Julio Rozas Universitat de Barcelona Spain
 JULIO ANTONIO ROZAS LIRAS <jroz@ub.edu>

CzechRepublic EvolOfHemiparasiticPlants Aug27-30

Dear Colleagues, we are pleased to announce the 2nd meeting on biology of non-weedy hemiparasitic Orobanchaceae, Ceske Budejovice, Czech Republic, August 27-30 2008. Evolution of life histories, reproductive strategies and hemiparasite-host coevolution will be discussed

together with other topics. Any presentation related to these subjects will be highly appreciated.

Get more info at the conference web site: <http://botanika.prf.jcu.cz/hemiparasites> The Organizers: Jakub Tesitel Milan Stech Jan Leps

Jakub Tesitel University of South Bohemia Faculty of Science Department of Botany Branisovska 31 Ceske Budejovice CZ - 370 05 Czech Republic e-mail: jakub.tesitel@centrum.cz jakub.tesitel@prf.jcu.cz

Jakub T¹itel <jakub.tesitel@centrum.cz>

Eugene Oregon Evolution Apr4-6

Hello Fellow Researchers,

On behalf of the NSF IGERT Trainees at the University of Oregon, I would like to announce our 2008 NSF IGERT Symposium on Evolution, Development, and Genomics entitled "From Patterns to Process: Bridging Micro- and Macro-evolutionary concepts through Evo-Devo". The symposium will be held in Eugene, Oregon at the Valley River Inn from April 4 - 6, 2008. The symposium has been organized by the IGERT-associated graduate students at the University of Oregon.

More information, including registration information, can be found on the Symposium's website (below) and a poster is attached.

Symposium Website <http://evodevo.uoregon.edu/-symposium.html> We are counting on a good deal of word-of-mouth advertising for this symposium, so we would be greatly appreciative if you could take a few minutes to pass on this email to other researchers you know who might be interested in attending and print and hang the attached poster in your department. We look forward to an intellectually stimulating and enjoyable symposium and hope that you can attend.

Feel free to contact me directly with any questions.

-Bill Gillis Bowerman Lab Institute of Molecular Biology University of Oregon bgillis@molbio.uoregon.edu

Bill Gillis <bgillis@molbio.uoregon.edu>

Hungary Animal Cooperation Jan17-20

CONFLICT AND COOPERATION IN ANIMAL SOCIETIES Workshop in Debrecen, Hungary; 17-20 January 2008

We are organising a Training Workshop to understand various aspects of cooperation and conflict in animals. Topics will include theoretical modeling, comparative evolutionary analyses, physiology and genetics.

The Workshop will be in Debrecen, Eastern Hungary 17-20 January 2008. We target postgraduate students and young post-docs in Europe, although attendance will be open to everyone. The Workshop will be held under the aegis of a multi-partner EU-funded coordination-action project, INCORE. The venue will be hosted by University of Debrecen <http://www.unideb.hu/> Invited speakers will include Professor John M McNamara (University of Bristol), Professor Mike Siva-Jothy (University of Sheffield), Professor Eors Szathmary (Collegium Budapest), Dr Zoltan Barta (University of Debrecen), Dr Istvan Karsai (East Tennessee University), Dr Lajos Rozsa (Natural History Museum Budapest), Dr Bernhard Voelkl (University of Strasbourg) and Professor Tamas Szekely (University of Bath).

Postgraduate students and post-docs are encouraged to give a 15 min talk followed by 5 min discussion.

For students registered at an Eastern/Central European institution, partial financial support will be available from INCORE. For further information and to register please contact Miklos Ban banm@vocs.unideb.hu

Best regards,

Zoltan Barta Peter Laszlo Pap Tamas Szekely
zbarta@delfin.unideb.hu peterlpap@gmail.com
T.Szekely@bath.ac.uk

Professor Tamas Szekely Professor of Biodiversity Dept of Biology and Biochemistry, University of Bath, Bath BA2 7AY, UK 01225 383676 (phone), 01225 386779 (fax), T.Szekely@bath.ac.uk (email) <http://www.bath.ac.uk/bio-sci/biodiversity-lab/index.htm> SEX, SIZE AND GENDER ROLES: evolutionary studies of sexual size dimorphism <http://www.oup.com/uk/catalogue/?ci=9780199208784> bssts@bath.ac.uk

Marseilles 11thEvolBiolMeeting Sep19-21 3

Dear all,

We are pleased to inform you that the 12th Evolutionary Biology Meeting at Marseilles will take place on 24th 25th 26th September 2008.

Moreover, the movies of the oral presentations of the 11th Evolutionary Biology Meeting at Marseilles will be very soon available on the web site <http://www.up.univ-mrs.fr/webtv> More information will be soon available on www.up.univ-mrs.fr/evol-cgr For any question contact egee@up.univ-mrs.fr

Yours sincerely,

Axelle Pontarotti

- Axelle Pontarotti Logistical Organisation Committee
 EA 3781 Evolution Biologique Université $\frac{1}{2}$ d'Aix Marseille I - case 19 Centre St Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 33491106489 <http://www.up.univ-mrs.fr/evol> We are organizing the 12th Evolutionary Biology Meeting at Marseilles - 24-26 September 2007 <http://www.evolutionary-biology.org> <http://www.up.univ-mrs.fr/evol-cgr/> egee@up.univ-mrs.fr

Montpellier MathInformatics EvolPhylogeny Jun10-12

Mathematics and Informatics in Evolution and Phylogeny June 10-12, 2008 France, Montpellier area: Hameau de l'Etoile

Conference web site <http://www.lirmm.fr/MIEP08/> Theme

The subject is evolution, which is considered at different scales: sequences, genes, gene families, organelles, genomes, and species. The focus is on the mathematical and computational tools and concepts, which form an essential basis of evolutionary studies. Recent years have witnessed rapid progress in this area, with models becoming more realistic, and complex, and with fast algorithms able to deal with the large datasets that are available today.

Non-exhaustive list of topics: phylogenetics, evolutionary genetics and genomics, molecular evolution of pathogens and epidemiology, biodiversity, statistical modelling, algorithmics, and software development.

The program will include short talks (typically 20 minutes) and plenty of time for discussions. If you are planning to attend, you have to register on this web site. As the number of attendees will be limited, we recommend registering quickly, and to submit a title and abstract if you are willing to talk. Poster sessions will be organized if we have too many propositions.

This conference is a continuation of:

* Mathematics of Evolution and Phylogeny (2003 and 2005) * Dumont D'Urville Workshop on Applied Evolutionary Bioinformatics (2007) * Phylogenetics programme at Isaac Newton Institute (2007)

Scientific committee

Elisabeth Allman: University of Alaska, US. Vincent Berry: CNRS, FR. David Bryant: University of Auckland, NZ. Frantz Depaulis: CNRS, FR. Laurent Duret: CNRS, FR. Nicolas Galtier: CNRS, FR. Olivier Gascuel: CNRS, FR, chair. Mike Hendy: Massey University, NZ. Daniel Huson: University of Tübingen, DE. Vincent Moulton: University of East Anglia, UK. David Posada: Universidad de Vigo, ES. Allen Rodrigo: University of Auckland, NZ, co-chair. Noah Rosenberg: University of Michigan, US. Charles Semple: University of Canterbury, NZ. Mike Steel: University of Canterbury, NZ.

Organizing committee

Céline Berger, Samuel Blanquart, Olivier Gascuel, Vincent Lefort (LIRMM).

Location and Online Registration

The conference will be held in the Hameau de l'Etoile, a small village dedicated to seminars and conferences,

which is located at about 30 km in the north of Montpellier (south of France).

Buses will be arranged for transportation, the 10th in the morning and the 12th just after the workshop end. The conference is free. Full accommodation including breakfast, lunch and dinner will be from 130 euros to 190 euros, depending on the room type (single, double, dormitory), to be payed to the Hameau de l'Etoile.

The number of participants is limited. Please register at:

<http://www.lirmm.fr/MIEP08/> SMBE meeting is June 5-8 at Barcelona (400 km from Montpellier gascuel@lirmm.fr

Oeiras Portugal EvolBiol Dec21

III Meeting of Portuguese researchers in Evolutionary Biology

21 December 2007 at Instituto Gulbenkian de Ciencia, Oeiras, Portugal

<http://eao.igc.gulbenkian.pt/EB/3ENB.htm> To apply to this meeting, please send email to: saramagal@gmail.com with title and abstract of the communication. Please specify oral presentation or poster.

Isabel Gordo Sara Magalhaes Francisco Dionisio

Francisco Dionisio <francisco.dionisio@gmail.com>

Paris Dispersal Dec6-7

DISPERSAL conference December 6-7, 2007 Museum National Histoire Naturelle, department for Ecology & Biodiversity Managing Paris, France Abstract deadline - November 12, 2007

Program: 2 full days (8.30 - 18.30)

Thursday, December 6th: Oral Session 1 : Mechanistic dissection of dispersal: how far have we moved? Report from the workshop: Hans Van Dyck, Nicolas Shtickzelle, Virginie Stevens & Michel Baguette Chair: James Bullock

Oral Session 2 : How can we study information acquisi-

tion before emigration or during transfer? What can we learn from this field? Keynote address: Jean Clobert Chair: Achim Poethke

Friday, December 7th: Oral Session 3 : Consequences of dispersal for individuals, populations, metapopulations and species. Keynote address: James Bullock Chair: Thomas Hovestadt

Oral session 4 : Modelling the evolution of dispersal. Report from the workshop: Calvin Dytham, Thomas Hovestadt, Achim Poethke & Justin Travis Chair: Hans Van Dyck

Abstract submission

All participants are invited and encouraged to present some aspect of their work in a poster or in a contributed talk (15 minutes + 10 minutes discussions). Please note that the number of talks selected will be limited to 20. Talks selection will favor speculative/discussion provoking themes and original unpublished results presentation.

Submit abstracts before 12 November 2007, with any relevant information (name, affiliation and full address for all authors, nature of the communication: oral or poster) as an attached word document sent to Michel Baguette (baguette@mnhn.fr) or to Virginie Stevens (stevens@mnhn.fr).

Registration

To register, please send a mail exclusively to Virginie Stevens (stevens@mnhn.fr), with the name, full address and affiliation of each participant.

Registration fees

Students: 25 euros/day Others: 50 euros/day To be paid (cash) at arrival.

Travel and accommodation

Participants are invited to deal with their own hotel reservation in Paris, as well as with their flights or train to Paris. Paris abounds in hotels and youth hostels. The conference will be at the campus Jussieu at University Pierre & Marie Curie, in the Quartier Latin (5th arrondissement). Here are some websites for hotel/room registration:

Hotels: www.hotels.com www.Hotels-Paris.fr
www.booking.com/Paris www.0800paris-hotels.com
 Beds & Breakfasts: www.2binparis.com
www.paris35.com Youth hostels: www.bvjhotel.com
 stevens@mnhn.fr stevens@mnhn.fr

Paris Dispersal Dec6-7 program

Dear all,

We are pleased to announce that the program for the conference "DISPERSAL" in Paris next 6 & 7 December is available for consultation on:

<http://dispersal.skynetblogs.be> There are still places to attend the conference. To register please send a mail to Virginie Stevens (stevens@mnhn.fr) with your name and affiliation. Find more details on venue on the conference webpage.

We are looking forward to the conference,

Michel BAGUETTE & Virginie STEVENS

Museum National d'Histoire Naturelle Lab General Ecology Avenue du petit CHâteau 4 F-91800 Brunoy France

stevens@mnhn.fr stevens@mnhn.fr

Paris HostParasite Dec5 2

We have a few seats left for our meeting:

Shared traits, extended phenotypes or G x G x E interactions: the role of the 'environment' in the evolutionary ecology of host-parasite interactions.

During one day of presentations and discussions, we hope to promote the emergence of synthetic ideas on the role of the environment (sensu lato) in the evolutionary ecology of host parasite interactions.

Paris (France), December 5th, 2007

Invited speakers:

Michael Hochberg Olivier Restif Peter Tiffin Fabrice Vavre

More information:

----- <http://simonfellous.free.fr/wgge.html> -----

Registration on a 'first come, first served basis' & before Nov. 15th : Write to: Simon Fellous "simonfellous@free.fr" or Lucie Salvaudon "lucie.salvaudon@upsud.fr"

Framework:

The “environment” of parasites is made of many different types of factors. First, the genotype of the host itself produces the background of the parasite’s development. Moreover, the interactions between host and parasite genotypes (i.e. GxG interactions) can result in the shared control of their traits. Finally, as for any type of organism, other biotic and abiotic factors, occurring inside and outside the host, can affect the translation of genotypic variations into phenotypes. Such sensu stricto environmental factors add another layer of complexity to the determinism of phenotypes as they can affect the interactions between host and parasite genotypes; $\frac{1}{2}$ leading to GxGxE interactions. The number of “statistically significant” environmental factors (e.g. temperature, within host competitors, GxG interactions; $\frac{1}{2}$) never stops growing. But how important they are remains obscure. Planning:

The presentations will be followed by two general discussions on:

Morning: The coevolutionary process and what variability studies tell us of evolution in dynamic environments
 Afternoon: Integrating environmental fluctuations into mathematical models of host and parasite evolution.

+ Conference diner in the evening

simonfellous@free.fr

Uppsala QTL-MAS May15-16

We are pleased to announce that the 12th QTL-MAS Workshop will take place in Uppsala, Sweden on 15-16th May 2008. The main themes will be fine mapping, genome-wide association analysis and genomic selection. A new feature will be the release of a data set for shared analysis, to enable a comparison of different methods. We particularly invite proposals based on this data set. Successful submissions for this project will be published in a special supplement by BMC Genetics and participating students and postdocs (limited to one per group, 5 in total) will qualify for a reduced conference fee. For more preliminary information, please visit our website: www.computationalgenetics.se/QTLMAS08. More details will follow in January.

Lucy Crooks, organising committee, QTL-MAS XII.

Lucy Crooks <qtlmas12@computationalgenetics.se>

UtrechtU GdeJongFarewellSymp Nov23

Symposium “Developments in Evolutionary Biology”

In honour of Gerdien de Jong, who will retire as Associate Professor Evolutionary Population Biology at Utrecht University, the Netherlands.

23 NOVEMBER 2007, UTRECHT UNIVERSITY, KRUYTGEBOUW Room W105

Programme

13:00 Ontvangst

13:30 Koos Boomsma,

14:00 Roy Erkens, Phylogeography, merging phylogenetics and population genetics

14:30 Patsy Haccou, Effects of deleterious mutations on the evolution of reproductive modes

15:00 Pauze

15:30 Jacintha Ellers, Adaptation to environmental variation: phenotypic plasticity and beyond

16:00 Frietson Galis, Evolutionary novelties: the making and breaking of pleiotropic constraints

16:30 Gerdien de Jong, Coincidence

17:00 Reception in Serre Botanische Tuinen till 19:00.

After the symposium Gerdien will be happy to meet you at the ‘Serre’ of the Botanical Gardens for a drink and a chat.

Please register (free) with Zoltán Bochdanovits (Z.Bochdanovits@vumc.nl) or Carolien de Kovel (C.deKovel@umcutrecht.nl)

Travel directions: Symposium and reception are both at the University grounds “De Uithof”, within walking distance of each other. De Uithof can be reached by bus 11 (stop Budapestlaan) and 12 (stop Kruytgebouw) from railway station Utrecht Centraal. By car, take exit “de Uithof” from route A28.

Kruytgebouw. Padualaan 8. Utrecht

Serre, Botanische Tuinen, Budapestlaan 17.

See also <http://www.genomics.med.uu.nl/~ckovel/-SymposiumGerdien.html> C.deKovel@umcutrecht.nl
 C.deKovel@umcutrecht.nl

**UWarwick PopGenetics Dec17-20
DeadlineNov20**

Dear Colleagues

Registration deadline (the 20th of November) for the PopGroup2007 is approaching. This year the 41st Population Genetics Group meeting UK (PopGroup) will be held at the University of Warwick Conference Centre (United Kingdom) 17th to 20th of December 2007.

Please visit the conference website www.popgroup.org for more information & registration. The cost of the meeting is 290 UK pounds including fees, accommodation and meals.

PopGroup is a fairly informal meeting, which brings together ~200 scientists working in population genetics and evolutionary biology, from the UK, Europe and more remote and exotic places, such as North America and Australia. All areas of evolutionary biology are covered.

Warwick conference centre is located very close to Birmingham International airport. It is also only about two hours by coach from London Heathrow Airport. It is easily accessible by rail, and by car (see travel information and maps on the website). It is also a great place for those interested in sightseeing: historic Warwick Castle and Stratford-upon-Avon, the birthplace of William Shakespeare are within half an hour drive from the conference centre (e.g. see <http://www.stratford-upon-avon.co.uk/>).

The conference website: www.popgroup.org Hope to see you at the Popgroup 2007!

Dmitry A. Filatov, PhD Department of Plant Sciences, University of Oxford, South Parks Road, Oxford, OX1 3RB, United Kingdom

Tel: +44 (0)1865 275051 Fax: +44 (0)1865 275074
Email: dmitry.filatov@plants.ox.ac.uk

Dmitry Filatov <dmitry.filatov@plants.ox.ac.uk>

Winchester ArtificialLife Aug5-8

CALL FOR PAPERS: Artificial Life XI

The Eleventh International Conference on the Simulation and Synthesis of Living Systems 5th - 8th August 2008, Winchester, UK www.alifexi.org Artificial life investigates the fundamental properties of living systems through simulating and synthesizing biological entities and processes in artificial media. Summer 2008 will see the international ALife conference hosted by the University of Southampton, UK, bringing the meeting to Europe for the first time in its 21-year history. Over the last two decades, some of the highly speculative ideas that were discussed at the field's inception have matured to the extent that new conferences and journals devoted to them are being established:

synthesising artificial cells, simulating massive biological networks, exploiting biological substrates for computation and control, and deploying bio-inspired engineering are all now cutting-edge practice.

The ALife XI conference provides an opportunity for those working across these topics to get together and exchange ideas and results.

To this end, the conference will present a selection of the best current work in the field, highlight new directions for investigation, and present high-profile keynote speakers.

Papers are welcome in all areas of the field, including:

Synthesis and origin of life, self-organization Self-replication, artificial chemistries Evolution and adaptation, evolutionary dynamics Evolutionary games, co-evolution Development, differentiation, and regulation Generative representations Synthetic biology Self-organizing technology, self-* computing Computational ecosystems Unconventional and biologically inspired computing Bio-inspired robots and embodied cognition Autonomous agents, evolutionary robotics Collective behavior, communication, cooperation Artificial consciousness; the relationship between life and mind Philosophical, ethical, and cultural implications Mathematical and philosophical foundations of ALife New and creative syntheses

All authors are encouraged to explain how their work sheds light on the fundamental properties of living systems and makes progress on the important open questions identified at previous meetings.

The conference will be held in Winchester, a beautiful historic city in southern England known for its 11th-century cathedral and 12th-century castle. Winchester is set in forested countryside about an hour southwest of London and Heathrow airport, and a few miles from the host institution, the University of Southampton.

PAPER/ABSTRACT FORMAT

There are two options for submission: either full paper format or abstract format. Full papers have an 8 page maximum length, while abstracts are limited to 500 words. Every submission will be subject to full peer review. All accepted submissions will be allocated a 30-minute oral presentation slot with no distinction being made between the two submission formats. All formatting guidelines (including word and latex style files) and submission instructions will be available on the conference submission webpage:

<http://www.alifexi.org/submissions/> .

PUBLICATION

Both full-paper and abstract submissions will be published by MIT Press in a single online proceedings volume. The best 15-20 papers will have the opportunity to be published in special issues of the journal Artificial Life.

IMPORTANT DATES

29 February 2008: Full paper submission deadline

18 April 2008: Notice of acceptance for full papers

25 April 2008: Abstract submission deadline

9 May 2008: Camera ready deadline

5-8 August 2008: Conference dates

ORGANIZATION

Seth Bullock (chair), Jason Noble, Richard Watson, Mark Bedau.

Host institution: School of Electronics and Computer Science, University of Southampton, UK.

CONTACT

For further information about the conference program, travel, accommodation, and local arrangements, please see the website www.alifexi.org. For questions about the submission and reviewing process, please email submissions@alifexi.org. For all other questions, contact questions@alifexi.org.

Dr Alex R Kraaijeveld School of Biological Sciences
University of Southampton Bassett Crescent East
Southampton SO16 7PX United Kingdom tel: (+44)-
(0)23-80593436 fax: (+44)-(0)23-80594459 <http://www.sbs.soton.ac.uk/staff/ark/ark.php> < <http://www.sbs.soton.ac.uk/staff/ark/ark.php> >

A.R.Kraaijeveld@soton.ac.uk

GradStudentPositions

AMNH NewYork ComparativeBiol	9	QueenMaryU MolecularClocks	19
Australia MarineBiodiversity	9	QueensCollegeCUNY SocialEvolution	19
ChicagoBotanic ConservationBiology	10	RiceU PlantEvolution	20
CollegeWilliamMary EvolBiol	11	Rotterdam HumanPopulationGenetics Forensics ...	20
DartmouthCollege EvolBiol	11	SanFranciscoStateU EvolBiol	21
DukeU DiseaseModeling	78	SangerInstitute Genomics	21
EBI Hinxton Bioinformatics	12	Smithsonian EvolBiol	22
ETH Switzerland EvolutionaryGenetics	13	SouthernIllinoisU AncientSexuality	23
ETH Zurich EvolutionaryBiol	13	StonyBrookU EvolBiol	23
IowaState EvoDevo	14	TexasAMU DrosophilaBacteria	23
KansasStateU Genomics	14	UAlaska SelfIncompatibility	24
MasseyU EnzymeEvolution	15	UAlberta Insect cons genetics	24
NorthCarolinaStateU HorseFlySystematics	16	UBritishColumbia MolecularEvol	25
NorthCarolinaStateU QuantGenetics	16	UCaliforniaBerkeley HawaiianDrosophilaEvol	25
NTNU Norway EvolutionaryGenetics	17	UCambridge Butterfly BioinformaticsEvoDevo ...	25
OssietzkyU Germany PopulationGenetics	18	UEastAnglia MHCevolution	26

UFlorida EvolEcology	27	UNewOrleans ConsBiol	33
UFlorida EvolutionaryBiology	27	UOulu AnimalCulturalEvol	33
UGeorgia EvolutionaryBiology	28	UppsalaU HumanEvolBiol	34
UGeorgia PlantEvolution	28	UppsalaU PlantEvolution	34
UHelsinki SticklebackEvolutionaryGenet	29	UppsalaU SpruceAdaptation	35
UHouston EvolBiology	30	USheffield DrosophilaEvolGenetics	36
UKonstanz FishEvolution	30	UWisconsinMadison PlantInsect	37
ULausanne EvolBiology	30	VanderbiltU EvolutionaryDiversification	37
UMaryland AvianEvolution	31	VictoriaU PlantMolSyst	38
UMichigan EvolBiol	31	Vienna SexualSelection	38
UMuenster 3 MolEvol	91		
UMuenster Bioinformatics	32		

AMNH NewYork ComparativeBiol

Announcing a New Ph.D. Program in Comparative Biology

The Richard Gilder Graduate School at the American Museum of Natural History

Our new Ph.D. program in Comparative Biology at the AMNH is designed to educate the next generation of biologists through an integrative approach that focuses on the history, evolutionary relationships, and interactions among organisms. The Richard Gilder Graduate School will be housed in a newly refurbished complex in the American Museum of Natural History at 79th and Central Park West in New York City. Training and research opportunities exist in systematic and evolutionary biology, paleontology, conservation biology, comparative genomics, computational biology, Earth history, anthropology, and biological and cultural diversity. Global field work with AMNH faculty provides exceptional research opportunities for students.

This is the first such program offered at a museum in the Western hemisphere, taking advantage of the Museums internationally recognized collections and scientists. The AMNH houses more than 30 million specimens and artifacts, which students can investigate through formal coursework and independent research. Additionally, students will have access to the exceptional natural history library of more than 400,000 scientific volumes, and will be taught by more than 40 world-renowned curator-professors. Students can also gain teaching experience through the Museums innovative exhibits and K-12 education programs, and will enjoy access to various collaborations between the AMNH and other New York City universities such as Columbia, NYU and CUNY.

The program is accelerated and designed for students to complete their degree in four years. For these academically outstanding students, The Richard Gilder Graduate School is pleased to offer a full tuition fellowship, generous annual stipend, research funding, health insurance and computer. There also are guaranteed housing options available for all students enrolling in this new program.

To view a more detailed program description and to download application materials, see: <http://rggs.amnh.org>. Please contact us at info-rggs@amnh.org for further information.

The deadline for applications is December 28, 2007 for September 2008 enrollment.

The American Museum of Natural History is an Affirmative Action/Equal Opportunity institution, and affirmatively seeks to attract to its scientific staff and student body qualified persons of diverse backgrounds. The Museum does not discriminate due to age, sex, religion, race, color, national origin, disability, marital status, veteran status, sexual orientation, or any other factor prohibited by law.

Susan Perkins <perkins@amnh.org>

Australia MarineBiodiversity

Dear Colleagues

Please be advised of the commencement for planning a new deep sea research program, Deep Ocean Australia, in the southwest Pacific and eastern Indian Ocean (substantially but not exclusively in proximity to Australian territorial waters), commencing later in 2008. Details can be found at the following website, www.uq.edu.au/

deepoceanaustralia, (please be patient as the site is new and still under development).

Major research topics include biodiversity and biodiscovery, taxonomy, evolution, genetics, physiology, neurobiology, behaviour and history of deep-sea invertebrates and vertebrates.

As part of the funding from the Australian Research Council (ARC), the industry partner Deep Ocean Quest and others there will be up to 12 PhD scholarships including at least 4 Australian Postgraduate Awards (APAs) available to both Australian national and international applicants.

Project topics might include the following, depending on supervisor and institution:

- Connectivity and biodiversity between isolated habitats - "Living fossils" and evolution in the deep sea - Present and past deep-sea communities and the effect of a changing climate? - Physiological adaptations of deep-sea inhabitants, with particular emphasis on sensory biology - Genetics and biodiscovery of the deep-sea? - Descriptions and quantification of the undescribed taxa in Australian deep-waters? - Conservation and management of Australia's deep-sea assets

The majority of the projects will be based at The University of Queensland, Australia. Enrolment at other Australian universities is also possible as well as potential placements in New Zealand, USA, UK, Sweden and Germany. Access to specimens is provided through funded expeditions on a research vessel with deep-sea trawling, capture and filming capabilities based around three observation and collection submarines. Archival specimens will also be accessible through our deep-sea investigator network. For more information on potential projects and on opportunities for scholarships please contact Dr Kerstin Fritsches atkerstin.fritsches@uq.edu.au.

Gert Wörheide Junior Professor for Molecular Geobiology Courant Research Center Geobiology Georg-August-Universität Göttingen Goldschmidtstr.3 37077 Göttingen, Germany

phone: +49-(0)551 39 14 177 mobile: +49-(0)178 537 22 33 fax: +49-(0)551-39 79 18 SkypeIn: +49-(0)551-29 81 400 Skype: spongegert

gert.woerheide@geo.uni-goettingen.de

www.geobiology.eu www.spongebarcoding.org
www.geobiologie.uni-goettingen.de Selected Lab Publications last 5 years: < <http://www.molgeobio.uni-goettingen.de/selected.html> >

ChicagoBotanic ConservationBiology

Below is an advertisement for a graduate internship with the Conservation and Land Management Fellowship Program, a partnership between the Chicago Botanic Garden, the Bureau of Land Management, National Parks Service and the USDA Forest Service, in the areas of conservation biology and natural resource management. This internship provides an invaluable opportunity to gain a wide breath of field experiences. If you could pass it onto any interested parties (particularly biological science, EEB and Environmental Science majors) or advertise it within your respective departments, it would be much appreciated. For printed advert, applications and any additional inquires please contact Cynthia Scott (cscott@chicagobotanic.org)

Cheers

The Conservation and Land Management Fellowship Program is a partnership between the Chicago Botanic Garden, the Bureau of Land Management, National Parks Service and the USDA Forest Service. Positions are available in the western United States beginning January and June, 2008. (<http://www.chicagobotanic.org/research/conservation/blm/-index.html>)

Duties may include: plant and wildlife monitoring and mapping; endangered species reintroduction; invasive species management; geographic data acquisition and analysis; biological assessments, sensitive species lists and conservation plans; fire ecology; land use planning; archaeology-related activities; recreation areas management; rangeland assessments; seed collection.

Fellows participate in a one-week training course held in late May in Chicago. Travel and lodging expenses will be covered. Training includes: BLM/NPS/FS orientation; Endangered Species Act and associated programs; plant and animal identification and monitoring; GIS and mapping; and topographical map reading and GPS skills.

Compensation is \$750.00/pay period (every two weeks)

How to Apply: Send a letter of interest, official school transcript(s), resume and three letters of recommendation as one package by February 15, 2008 (December 15, 2007 for the earlier start date) to:

Cynthia Scott CLM Fellowship Program Chicago Botanic Garden Division of Plant Science and Conservation 1000 Lake Cook Road Glencoe, IL 60022 Ph: 847-835-6917 Fax: 847-835-5484 cscott@chicagobotanic.org

This Fellowship opportunity may also be conducted as a research component of a Masters program with Northwestern University and the Chicago Botanic Garden. For application information, visit: <http://www.plantbiology.northwestern.edu> For more information visit the website: The Conservation and Land Management Fellowship Program is a partnership between the Chicago Botanic Garden, the Bureau of Land Management, National Parks Service and the USDA Forest Service. Positions are available in the western United States beginning January and June, 2008.

Duties may include: plant and wildlife monitoring and mapping; endangered species reintroduction; invasive species management; geographic data acquisition and analysis; biological assessments, sensitive species lists and conservation plans; fire ecology; land use planning; archaeology-related activities; recreation areas management; rangeland assessments; seed collection.

Fellows participate in a one-week training course held in late May in Chicago. Travel and lodging expenses will be covered. Training includes: BLM/NPS/FS orientation; Endangered Species Act and associated programs; plant and animal identification and monitoring; GIS and mapping; and topographical map reading and GPS skills.

Compensation is \$750.00/pay period (every two weeks)

How to Apply: Send a letter of interest, official school transcript(s), resume and three letters of recommendation as one package by February 15, 2008 (December 15, 2007 for the earlier start date) to:

Cynthia Scott CLM Fellowship Program Chicago Botanic Garden Division of Plant Science and Conservation 1000 Lake Cook Road Glencoe, IL 60022 Ph: 847-835-6917 Fax: 847-835-5484 cscott@chicagobotanic.org

This Fellowship opportunity may also be conducted as a research component of a Masters program with Northwestern University and the Chicago Botanic Garden. For application information, visit: <http://www.plantbiology.northwestern.edu> For more information visit the website: <http://www.chicagobotanic.org/research/conservation/blm/-index.html> Lab@chicagobotanic.org

CollegeWilliamMary EvoBiol

The Biology department at the College of William and Mary is recruiting new Master's students in ecology and evolutionary biology, to start in Fall 2008.

We offer a two-year research-intensive Masters program wherein students are supported by teaching assistantships and full tuition waivers. This is an ideal program for undergrads who are thinking about graduate schools but may not be quite ready to apply to a high- profile Ph.D. program or are looking for broad training in ecology and related fields for work in consulting or resource management.

With a low student to faculty ratio (approximately 8-10 new students each year with 23 full-time faculty), we can offer an intimate and highly personalized research and education experience rarely attainable at larger universities. Also, our graduate students often work closely with and mentor undergraduates, offering numerous informal teaching and personal development opportunities.

Most of our faculty have funding from NSF, NIH, HHMI and other organizations. Many of us are actively looking to take on new MS students next year. Please feel free to pass this message on to any students you think may be interested/suitable. General information about our program is available from the department website: <http://www.wm.edu/biology/gradcurriculum.php> .

George W. Gilchrist Email: gwgilc@wm.edu Director of Graduate Studies Phone: (757) 221-7751 Department of Biology, Box 8795 Fax: (757) 221-6483 College of William & Mary Williamsburg, VA 23187-8795 <http://gwgilc.people.wm.edu/> gwgilc@wm.edu

DartmouthCollege EvoBiol

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 study in a diversity of biological systems, and our core group of enthusiastic faculty, graduate students and post-docs provide an exciting envi-

ronment in which to pursue a Ph.D. Generous support is available in the form of fellowships, health care, and discretionary funds for research and travel.

Detailed information about the program, and access to online applications, are available at <http://www.dartmouth.edu/~biology/graduate/eeb/> Promising applicants will be invited for interviews in February. Thanks for your interest! We look forward to meeting you.

Ryan Calsbeek Assistant Professor Department of Biological Sciences Dartmouth College Hanover, NH 03755 USA office phone: 603-646-9917 fax: 603-646-1347 www.dartmouth.edu/~calsbeeklab Ryan Calsbeek <ryan.calsbeek@Dartmouth.EDU>

DukeU DiseaseModeling

If you are interested in using quantitative approaches to study the ecology and evolution of infectious diseases, please feel free to contact me by e-mail. I am looking for one to two graduate students to start next fall (August 2008) and the following one (August 2009).

I am specifically interested in students who think innovatively and preferably have some background in theoretical biology (ideally ecology and/or evolutionary biology). Although undergraduate degrees in math or computer science are not necessary, the candidate must already possess or feel extremely comfortable in developing quantitative skills. Main research projects in my lab currently focus on (1) understanding the role of climate variability in driving disease dynamics, (2) developing mathematical and statistical models to understand the disease dynamics of rapidly evolving pathogens such as influenza and dengue, (3) drawing quantitative comparisons between the ecological and evolutionary patterns of rapidly evolving pathogens at the population level versus at the within-host level. Although most of this research has focused on bacterial and viral pathogens that infect humans, current projects are also considering the ecological and evolutionary dynamics of pathogens in other hosts (e.g., avian and equine hosts).

Individuals interested in joining my lab should generally be interested in one or more of the research topics listed above. I expect incoming graduate students to be excited about their research, to be able to synthesize and incorporate material from different fields, including ecology, evolution, virology, applied math, and

epidemiology. Most importantly, graduate students of mine should see infectious diseases as providing a great model system to quantitatively study open questions in ecology and evolutionary biology.

Beyond the important interactions that grad students will have with ecologists and evolutionary biologists in the Department of Biology, there are also many other resources at Duke that a student studying infectious diseases with me could tap into. Specifically, Duke is home to a recently founded Global Health Institute, a Theoretical Immunology group, a Vaccine Institute, and a Center for Nonlinear and Complex Systems. My lab has established collaborations with several of these groups, and is looking to further these ties. Furthermore, NESCent, UNC-Chapel Hill, and NC State are all within half an hour of Duke University, creating a larger academic community in the Triangle Region.

Contact info: Katia Koelle Dept. of Biology Duke University Box 90338 Durham, NC 27708 Phone: 919-660-9457 E-mail: katia.koelle@duke.edu

katia.koelle@duke.edu katia.koelle@duke.edu

EBI Hinxton Bioinformatics

Deadline: 17 December 2007 for positions starting in Fall 2008

More details: <http://www.ebi.ac.uk/training/Studentships> <http://www.ebi.ac.uk> <http://www.embl.org/training/phdprogramme/index.html>

The EMBL-European Bioinformatics Institute (EBI), situated near Cambridge, UK, has opportunities in its PhD programme for graduates who wish to study for a 3.5-year PhD. Students receive a University of Cambridge PhD, and full financial support.

Opportunities exist in a wide range of bioinformatics/molecular biology disciplines, including evolutionary biology. Please check the further information available at <http://www.ebi.ac.uk/training/Studentships/#su>. For a fuller view of all activities at EBI, see also <http://www.ebi.ac.uk/research>. Requirements Candidates are expected to hold, or obtain, a 1st or upper 2nd class degree (or equivalent overseas qualification). Studentships are allocated on a competitive basis following interviews at EBI and in Heidelberg, Germany, in March 2008. Full funding is given to successful applicants who are nationals of one of the EMBL member nations (see <http://www.embl.org/aboutus/generalinfo/membersmap.html>), and a limited number of positions

may be available to nationals of other countries.

Nick Goldman

Nick Goldman tel: +44-(0)1223-492530 EMBL - European Bioinformatics Institute fax: +44-(0)1223-494468 Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SD, UK

goldman@ebi.ac.uk goldman@ebi.ac.uk

CH-8903 Birmensdorf

SWITZERLAND

phone: +41-(0)44-739-2590 fax: +41-(0)44-739-2215 <http://www.wsl.ch/staff/felix.gugerli/> felix.gugerli@wsl.ch

ETH Switzerland Evolutionary Genetics

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 500 people work on topics related to the sustainable use and protection of the environment and on an integrated approach to handling natural hazards. The Research Unit Ecological Genetics and Evolution is using molecular methods in a landscape-oriented context. In collaboration with the CCES-BIOCHANGE research initiative of the ETH Domain, we investigate the evolution and the protection of biodiversity in alpine environments and are searching for a

PhD Student in Ecological Genetics

You will identify genetic markers of adaptive significance by using genome scans on *Arabis alpina* and *Arabidopsis thaliana* and by transplant experiments in alpine environments, analyze the data, co-operate with other groups within the CCES-BIOCHANGE initiative and write scientific publications. Data from a pre-project are at your disposal.

Your profile: Master thesis in population or ecological genetics of plants, experience in genetic lab techniques and statistics, organizing ability, fluent in written and spoken English, knowledge of alpine ecosystems, open, communicative and flexible personality.

Interested? Please send your complete application including a photo, using reference number 513 to Mrs. Monika Huber, WSL, Human Resources WSL, Zuercherstrasse 111, CH-8903 Birmensdorf, Switzerland. Dr Rolf Holderegger, tel. +41 (0)44 739 25 27 or Dr Felix Gugerli, tel. +41 (0)44 739 25 90, will be happy to answer any questions or offer further information.

Felix Gugerli $\ddot{\text{K}}\ddot{\text{u}}\ddot{\text{t}}\ddot{\text{z}}\ddot{\text{n}}\ddot{\text{z}}\ddot{\text{l}}\ddot{\text{e}}$, PhD Biologist / Group leader Swiss Federal Research Institute WSL Research Unit Ecological Genetics & Evolution Zuercherstrasse 111

ETH Zurich EvolutionaryBiol

Graduate Position: ETH Zurich. Evolutionary Ecology PH.D. POSITION ON ALTITUDINAL ADAPTATION IN *ARABIDOPSIS THALIANA* AT ETH ZÜRICH, SWITZERLAND

We are seeking a PhD candidate (3 yrs) with a strong interest in the evolution of adaptive traits. The research aim is to identify traits and genes responsible for altitudinal adaptation in *Arabidopsis thaliana*. The work will involve field transplant experiments in Switzerland using field collections from different altitudes, crosses between them, and commercially available recombinant inbred lines (RILs). This project is part of a larger research collaboration on the reaction of organisms to global change.

We welcome candidates who enjoy teamwork but are also used to contributing independent ideas. Experience with experimental (field-) work, a flair for statistical analyses, as well as experience in molecular laboratory methods, if possible, are needed. Candidates should have completed their Master's degree or equivalent in a relevant field and be fluent in English.

The successful applicant will be jointly supervised by Dr. Sophie Karrenberg and Prof. Alex Widmer at the Plant Ecological Genetics group at ETH Zürich. Current research topics in the group include hybridization and introgression, QTL analyses, habitat adaptation, reproductive isolation, and genomics. We offer supportive and stimulating environment, a state-of-the-art molecular lab, as well as climate chambers, greenhouses and common garden facilities.

Zurich is an international city of about 350,000 people in the heart of Europe and has been recently rated as the city with the highest quality of life in Europe. Excellent public transportation exists within the city, to the nearby mountains, and to the rest of Europe.

The position can start as early as January 2008, however, later starting dates until April 2008 can be negotiated. To apply, please send to address given below: 1)

a letter describing your research motivation and experience, 2) a CV together with a copy of degree certificates (graduate and undergraduate) 3) full contact details of at least two scientific referees. Applications by email are encouraged.

Further information: sophie.karrenberg@env.ethz.ch

Dr. Sophie Karrenberg Plant Ecological Genetics Institute of Integrative Biology ETH Universitätstrasse 16 CHN G23, ETH-Zentrum CH-8092 Zürich, Switzerland e-mail: sophie.karrenberg@env.ethz.ch tel.: +41 44 632 8713

sophie.karrenberg@env.ethz.ch so-
phie.karrenberg@env.ethz.ch

IowaState EvoDevo

Ph.D. Graduate Assistantship, Evolutionary Developmental Biology at Iowa State University

A graduate research assistantship is available for Fall 2008 to support a Ph.D. student interested in studying the evolution of developmental mechanisms. Our lab is using the scallop, a novel molluscan model, to study the evolution of the eye. Ongoing and future projects aimed at understanding the evolution of the eye and the development of the nervous system in scallops include laboratory and field experiments. Ultimately, we wish to understand how genetic and developmental mechanisms underlying structural complexity evolve. The position will be located at Iowa State University in the laboratory of Dr. Jeanne Serb (<http://www.eeob.iastate.edu/faculty/profiles/SerbJ/SerbJ.html>)

Applicants should be enthusiastic and capable of working independently. Prior experience with DNA and RNA extraction, PCR, in situ hybridization, and/or DNA sequencing is preferred. The successful candidate will play a significant role in developing his/her research project.

All prospective students are encouraged to contact Dr. Jeanne Serb via e-mail (serb@iastate.edu). Please include a curriculum vitae, a one-page statement of research interests and relevant experience, and the names and email addresses of three references.

Applicants should apply to the Ecology and Evolutionary Biology (EEB) graduate program (<http://www.grad-college.iastate.edu/EEB/>) through the department of Ecology, Evolution and Organismal Biol-

ogy at Iowa State University. For Fall 2008 admittance, formal graduate applications should be received by 1 January 2008.

Jeanne M. Serb Assistant Professor

Department of Ecology, Evolution, and Organismal Biology 245 Bessey Iowa State University Ames, IA 50011 USA

tel: 515-294-7479; FAX: 515-294-1337 serb@iastate.edu
<http://www.eeob.iastate.edu/faculty/profiles/SerbJ/-SerbJ.html>

KansasStateU Genomics

Ecological Genomics Institute at Kansas State University announces:

Multiple Graduate Fellowships AVAILABLE for admission in Fall 2008.

The deadline for applications is 15 January 2008. For more information on how to apply, visit our website at: <http://www.k-state.edu/ecogen/recruit-GradStudentsApplication.html> and/or e-mail the chair of our Course and Curriculum Committee, Dr. Jeremy Marshall (cricket@ksu.edu).

Program Overview:

Research in the EGI works to link responses of living systems to environmental change at the genetic level. The overarching goal of this research initiative is to identify the genes that are involved in organismal responses to the environment.

This Ecological Genomics Institute takes advantage of existing strengths at Kansas State University in genetics and genomics, ecology and evolutionary biology to answer cross-cutting questions that lie at the interface of genomics and ecology. This collaborative research effort crosses disciplines (genetics and ecology) and departments (Agronomy, Biology, Entomology, Plant Pathology, Computing and Information Science). In addition, the EGI takes advantage of experimental manipulations at the Konza Prairie Long-Term Ecological Research (LTER) site.

Research and education opportunities exist for Graduate Students to work towards a MS or PhD degree in this large collaborative and interdisciplinary effort. More information about the Kansas State University

Ecological Genomics Institute research groups can be found at www.ksu.edu/ecogen. Twenty eight faculty with interests spanning the diversity of disciplines within ecological genomics are involved in the ecological genomics institute. Faculty include:

Eduard Akhunov, Plant Pathology, Genomics of Adaptive Plasticity

Sue Brown, Biology, Insect Genomics

Carolyn Ferguson, Biology, Plant Evolutionary Genetics

Karen Garrett, Plant Pathology, Plant-Microbe Ecological Genomics

Michael Herman, Biology, Nematode Community Ecological Genomics

Loretta Johnson, Biology, Plant Genomics and Global Change

Ari Jumpponen, Biology, Host-Fungus Interaction Genomics

Srini Kambhampati, Entomology, Evolutionary Genetics and Genomics

David Margolies, Entomology, Genomics of Foraging Behavior

Jeremy Marshall, Entomology, Genomics/Proteomics of Speciation

Ted Morgan, Biology, Evolutionary & Ecological Quantitative Genomics

Brett Sandercock, Biology, Avian Population Demography and Genetics

Mike Smith, Entomology, Plant-Arthropod Genomic Interactions

Tim Todd, Plant Pathology, Nematode Community Ecological Genomics

Mark Ungerer, Biology, Plant Evolutionary Genetics/Genomics

Steve Welch, Agronomy, Network Models and Natural Variation

Ruth Welti, Biology, Lipidomics of plant stress

Anna Whitfield, Plant Pathology, Genomics of Virus-Vector Interactions

Samantha Wisely, Biology, Population Genomics

Kun Yan Zhu, Entomology, Insect Toxicogenomics

KSU is an Equal Opportunity Employer, and actively seeks diversity among its employees.

Jeremy L. Marshall, Ph.D. Department of Entomology Kansas State University Manhattan, KS 66506-4004 E-

mail: cricket@ksu.edu

cricket@ksu.edu

MasseyU EnzymeEvolution

Ph.D. SCHOLARSHIP IN ENZYME EVOLUTION

Institute of Molecular Biosciences, Massey University Albany Campus, Auckland, New Zealand.

WHERE DO NEW ENZYMES COME FROM?

Applications from enthusiastic and motivated candidates are invited for a Ph.D. under the supervision of Dr. Wayne Patrick.

We are interested in understanding the origins of new enzymes and metabolic pathways, and in applying the lessons learnt to problems such as bioremediation and the evolution of antibiotic resistance. Your project will involve applying the modern tools of ³big² biology (functional genomics, directed evolution and high-throughput screening), as well as biochemistry and bioinformatics, to observe and manipulate the evolution of new catalytic functions in the model bacterium, *Escherichia coli*. Our preliminary investigations in this area are described in: Patrick et al. (2007) *Mol. Biol. Evol.*, doi:10.1093/molbev/msm204 (in press). More information is also available at <http://imbs.massey.ac.nz/-Staff/patrick.htm>. Applicants should have a background in biochemistry, evolutionary biology, microbiology or related subjects. The stipend is NZ\$25,000 per annum (tax-free) for three years.

Requests for further information should be directed to Dr. Wayne Patrick: email w.patrick@massey.ac.nz; or phone +64 (9) 414-0800, ext. 9694.

METHOD OF APPLICATION

Applicants should send a brief cover letter stating why they are interested in this scholarship, together with the names and contact details of two referees. Candidates should also include a curriculum vitae. Applications should be sent electronically, by 14th December 2007, to Dr. Wayne Patrick (w.patrick@massey.ac.nz).

W.Patrick@massey.ac.nz W.Patrick@massey.ac.nz

NorthCarolinaStateU HorseFlySystematics

Graduate Research Assistantship: - Systematics and Taxonomy of Horse flies

We are seeking applicants to fill a PhD graduate research Assistantship to study horse fly (Diptera:Tabanidae) systematics and evolution as part of a National Science Foundation PEET Award (Partnerships to Enhance Expertise in Taxonomy).

Tabanid PEET homepage: (<http://www.inhs.uiuc.edu/research/tabunid/>) NSF Award: (<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0731528>)

Candidates should have a strong interest in systematics and revisionary taxonomy; previous experience in entomology, morphology, bioinformatics, outreach, or molecular systematics is a plus. In addition to their taxonomic work on Tabanidae, each trainee will be asked to specialize in one of three general areas: bioinformatic techniques, computational/analytical phylogenetics, or natural history teaching and outreach. Additionally, the student must satisfy requirements for admittance to the NCSU Entomology graduate program. Prospective students should have good written and oral communication skills, good personal skills, familiarity with computers and be willing to travel overseas.

North Carolina State University has one of the top rated Entomology programs in the Nation. As a node of the Research Triangle, NCSU also benefits from a large community of Evolutionary biologists and close proximity and affiliation with the National Evolutionary Synthesis Center (NESCent). The student will become part of the Wiegmann Diptera Systematics research team at NCSU. (<http://www4.ncsu.edu/unity/users/b/bwiegman/public.html/labweb/>).

To apply, please send an email to Brian Wiegmann (bwiegman@ncsu.edu), cc: (simorita@ncsu.edu) with the subject line "Application for PEET studentship" and include:

1. CV (max 2 pages)
2. Contact details for two references (email and mailing address)
3. A short paragraph describing your interest in the Tabanid PEET project

For more information, please contact Dr. Wiegmann (bwiegman@ncsu.edu) or Dr. Morita

(simorita@ncsu.edu).

Brian M. Wiegmann Professor Department of Entomology Box 7613 North Carolina State University Raleigh NC 27695

phone: 919-515-1653 fax: 919-515-7746 email: bwiegman@unity.ncsu.edu

Wiegmann <bwiegman@unity.ncsu.edu>

NorthCarolinaStateU QuantGenetics

Please post to the Graduate Student Positions Section of EvolDir:

Department of Genetics at North Carolina State University Research Training Program in the Genetic Architecture of Quantitative Traits

The National Institute of General Medical Sciences of the National Institutes of Health has awarded the Department of Genetics an Institutional Research Training Grant for predoctoral training in "The Genetic Architecture of Quantitative Traits."

Quantitative, or complex, traits are affected by multiple interacting genes, each of which have small effects and are sensitive to the environment. Understanding the molecular nature of genetic variation for quantitative traits will have an enormous impact on medicine, livestock and crop breeding, and the study of evolution.

For over half a century North Carolina State University has been a leading center for research in quantitative genetics. To enable future scientists to advance our understanding of the genetic architecture of quantitative traits, we offer a research and training program that integrates quantitative, population, molecular and developmental genetics, statistics and molecular evolution.

Our program offers: * Stipend with tuition and health insurance * Travel allowance and research funds * State-of-the-art research facilities * Internationally recognized faculty with expertise in theoretical and experimental quantitative genetics * A stimulating academic environment near the University of North Carolina at Chapel Hill, Duke University and the Research Triangle Park * A beautiful and affordable location with a pleasant climate between the beaches and the Appalachian mountains

US citizens and permanent residents are eligible for

Fellowships. The Department of Genetics is strongly committed to promoting diversity in the scientific community and encourages applications from individuals of historically under-represented minority groups.

Training Faculty Jose Alonso: Ethylene signal transduction in Arabidopsis; characterization of Arabidopsis genome.

Robert Anholt: Molecular and quantitative genetics of olfaction.

William Atchley: Developmental quantitative genetics and molecular evolution.

Patricia Estes: Development of the Central Nervous System (CNS) and cellular and molecular response to hypoxia.

Robert Franks: Development of the carpel margin meristem in Arabidopsis thaliana.

Fred Gould: Ecological, genetic and chemical aspects of plant/herbivore interactions, pest management, and behavioral ecology of arthropods.

Christina Grozinger: Applied insect ecology and pest management genomics.

Patrick Hurban: Elucidation of biological networks.

Todd Klaenhammer: Physiology, metabolism and genetics of lactic acid bacteria.

James Mahaffey: Drosophila developmental genetics.

Trudy Mackay: Molecular quantitative genetics in Drosophila.

Laura Mathies: Genetic control of early gonad development in *C. elegans*.

W. Owen McMillan: Population genetics, evolution, and conservation biology.

Dahlia Nielsen: Developing techniques for fine-scale genetic mapping in human populations.

Ronald Sederoff: Molecular genetics, quantitative genetics and genomics of pine.

Jeffrey Thorne: Statistical methods for analysis of sequence data.

Zhaobang Zeng: Theory and statistical methodology for characterizing and analyzing genetic variation.

For information and application information, contact: Director of Graduate Programs Department of Genetics North Carolina State University Raleigh, NC 27695-7614 Telephone: 919-515-2292 <http://www.cals.ncsu.edu/genetics/> Julie Douglas Pederson, Ph.D. Assistant Department Head Department of Genetics North Carolina State University Raleigh,

NC 27695-7614 Tel: 919-515-4248 Fax: 919-515-3355 julie_pederson@ncsu.edu

Julie Pederson <jdpeders@ncsu.edu>

NTNU Norway Evolutionary Genetics

PhD POSITION IN EVOLUTIONARY GENETICS

One PhD position in evolutionary genetics is available at the Department of Biology, NTNU, Norway. The fellowship is for up to four years including 25 % teaching duties. The fellowship is linked to the Centre for Conservation Biology, NTNU (<http://www.bio.ntnu.no/-pbc/>), and the research group of Dr Jon Slate, Dept. of Animal and Plant Sciences, University of Sheffield (<http://www.jon-slate.staff.shef.ac.uk/>).

The Department of Biology, NTNU, has 34 members of faculty (professors and associate professors), 10 research scientists and about 65 PhD students and post docs. The department incorporates research programs in evolutionary biology, population genetics, aquatic and terrestrial ecology, conservation biology and biodiversity, ethology, molecular biology, cell biology, plant and animal physiology and ecophysiology, aquaculture, and marine biology, with considerable collaboration between the disciplines. More information about the Department of Biology can be found at: <http://www.bio.ntnu.no/eng/>.

The purpose of the project is to study the genetic mechanisms underlying adaptive evolution of complex traits in natural populations. This will be done using state-of-the-art genomics analyses combined with advanced statistical methods. Empirical data has already been collected from artificial selection experiments carried out in two natural bird populations. The data are available in a bio-bank which contains information and DNA samples from 1800 individual house sparrows (*Passer domesticus*) distributed across four generations in genetically determined pedigrees. The PhD project will combine high-throughput genotyping of individuals in the pedigrees on single nucleotide polymorphisms (SNPs) and data in the bio-bank to carry out QTL mapping of complex phenotypic traits. The QTL maps will be used to examine 1) how the genetic architecture of complex phenotypic traits influence the rate and direction of evolutionary changes caused by selection, and 2) how the genome changes as a result of selection of

known strength and direction. Through these analyses the project will increase the general understanding of the genomic changes underlying adaptive evolutionary processes.

The student will through the PhD acquire expertise in cutting-edge genomics techniques and advanced statistical methods used in an evolutionary population genetics framework. Thus, the student will have the ability to pursue further research in a wide range of growing fields of research.

Applicants must have, or soon expect to obtain, a MSc/Cand.Scient. (or equivalent) degree in the field of evolutionary biology, molecular ecology, functional genomics, molecular biology, mathematics/statistics or bioinformatics. Ability to carry out goal-oriented work, ability to deliver, oral and written presentation of research results, and good co-operation abilities will be emphasized.

The application must contain information on education, exams and previous practice. Publications and other scientific work which the applicant wishes to be taken into consideration must be attached to the application. Multi-authored publications will be considered, but a brief description of the applicants contribution should be enclosed.

In order to be accepted as a PhD student the grades of the MSc project has to be sufficiently high (in Norway: B/2.5 or better), or the applicant has to document a similar level through later scientific work. Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, which describes in detail the study and grade system and the rights for further studies associated with the obtained degree: http://ec.europa.eu/education/policies/rec_qual/recognition/diploma_en.html

The appointment of the PhD fellow will be made according to national guidelines for appointment of PhD fellows at universities and university colleges. Applicants are obliged to engage in an organized PhD training program, and appointment requires approval of the applicant's plan for a PhD study. A contract regarding the period of appointment and the obligations of the PhD fellow must be signed by the Fellow and the University.

The appointment will be made according to the general regulations regarding university employees. The government work force of Norway should reflect the diversity of the population, and this is an Equal Opportunities position. The annual salary of the PhD position is NOK 325 800,- per year (ca EUR 42 200,- per year; code 1017, level 43 according to the government pay-

scale for university employees). There is 2 % deduction for superannuation.

— / —

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>

OssietzkyU Germany PopulationGenetics

Carl von Ossietzky University Oldenburg, Germany

PhD thesis in population genetics and evolutionary biology

A three-year Ph.D. studentship (E13TV-L/2) in evolutionary biology is available in the laboratory of Gabriele Gerlach at the Carl von Ossietzky University of Oldenburg, Germany.

The Gerlach lab at the University of Oldenburg studies biological evolution on all levels of organization, from genes to individuals and populations. Ongoing projects range from behavioral experiments in zebrafish to population structure and dynamics of coral reef fish and lobster.

A description of our research can be found at http://www.uni-oldenburg.de/Biodiversitaet_und_Evolution_der_Tiere/index.html and/or

<http://www.mbl.edu/research/labs/gerlach/> A successful candidate will have a strong background in evolutionary biology. Experience in molecular biology and population genetics is advantageous. The project consists of field and laboratory work (fragment analysis and sequencing) and statistical analyses. Good English skills are required because parts of the project will be conducted in the US and in collaboration with scientists in the US.

We are looking for an individual with a Masters Degree or equivalent, who is highly self-motivated and can work independently.

Closing date for applications: December 10, 2007

Curriculum Vitae (2) a letter of application highlighting recent relevant experience, and (3) the names, addresses and e-mail addresses of at least two referees should be sent as a single pdf file to:

Contact address:

Gabriele Gerlach

Zoodiversity and Evolution

Carl von Ossietzky University Oldenburg

26111 Oldenburg

Email: gabriele.gerlach@uni-oldenburg.de
<<mailto:gabriele.gerlach@uni-oldenburg.de>>

Tel. ++49 441 798 3986

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

QueenMaryU MolecularClocks

Dissecting the causes of rate variation in the molecular clock PhD Student Scholarship at Queen Mary University of London (Sept 2008 for 4 years)

This position is open to students from all countries. The Scholarship covers fees and living expenses, but it will require you to do limited lab teaching (demonstrating).

The molecular clock hypothesis proposes that evolution at the sequence level occurs at a more-or-less constant rate. This hypothesis is demonstrably false: for example, the rate of substitution in coral mitochondrial DNA is a hundred-fold slower than other animals. Yet such glaring counter-examples are swept aside with disturbing alacrity when the clock is used to draw inferences about the action of selection, or evolutionary history.

The genomic data that have recently accumulated provide an exciting and unexploited opportunity to investigate the fundamental evolutionary processes affecting such variation, because sequences from multiple loci can now be obtained from many species. The student will be equipped with computational skills and the theoretical understanding to contribute to this essential field of post-genomic science.

It will suit a student interested in evolutionary biology, and, while programming skills are not a prerequisite, a reasonably sophisticated familiarity with computers and a willingness to learn basic programming skills are essential. The results of this project will overcome fundamental obstacles to the use of molecular clock techniques in studies ranging from gene function to biogeography. More importantly the project will generate novel insights into the fundamental processes of molecular evolution.

Applications are invited from candidates with, or expecting to obtain, at least an upper-second class honours degree in an area relevant to the project. Applicants should send a CV and the names and contact details of two academic referees to James Cotton (j.a.cotton@qmul.ac.uk) by 1st of February 2008

Further details at <http://webspaces.qmul.ac.uk/~jacotton/studentship.html> j.a.cotton@qmul.ac.uk

QueensCollegeCUNY SocialEvolution

Applications are invited from students interested in carrying out a Ph.D. thesis on the evolutionary genetics and ecology of mating systems and social evolution at Queens College, at the City University of New York (CUNY). My group studies the evolution of reproductive strategies, phenotypic diversity, and variation in the genetic structure of populations in social animals, and is particularly interested in how selection on mating strategies affects social evolution and vice versa. We apply a variety of techniques to address these topics, including field studies, molecular genetic analyses, laboratory experiments, and comparative analyses using social insects as test systems. Excellent facilities are available for this work in my laboratory, in addition to a very well-equipped Core laboratory. Also, the Ecology-Evolution-Behavior faculty at Queens College, composed of six groups, constitutes a dynamical, driven, and stimulating environment with a strong focus on all aspects of evolutionary genetics. Successful candidates will receive generous support in the form of fellowships, health care, and free tuition, and will have only moderate teaching assistantship duties. Candidates must have keen interests in evolutionary genetics and ecology, population biology, or behavioral ecology. Prior research experience is a plus but not necessary, and a strong academic record is required. Candidates of any nationality are eligible. Having a Master's degree is not required, but Master's level courses will be credited toward the Ph.D. work.

Interested students are invited to contact me for further information (Else.Fjeringstad@qc.cuny.edu)

Else Fjeringstad

Else J. Fjeringstad, Ph.D. Assistant Professor

Department of Biology Queens College, City University of New York 65-30 Kissena Boulevard Flushing,

NY 11367, U.S.A.

Office: NSB E-118 Tel: +1 718 997 3421 Laboratory:
NSB E-133/135D, Tel: +1 718 997 3472 Fax: +1 718
997 3445 E-mail: Else.Fjordingstad@qc.cuny.edu

[http://qcpages.qc.cuny.edu/Biology/fac_stf/-
Fjordingstad/fjordingstad.html](http://qcpages.qc.cuny.edu/Biology/fac_stf/-Fjordingstad/fjordingstad.html)

else.fjordingstad@qc.cuny.edu
else.fjordingstad@qc.cuny.edu

RiceU PlantEvolution

Ph.D. Students Wanted! Ecology and evolution of plants and plant-animal interactions

My lab is broadly interested in the ecology and evolution of plants and their communities, often focusing on plant-animal interactions such as herbivory, seed predation, and seed dispersal. We use a combination of field, greenhouse, phylogenetic and molecular genetic approaches. Students are expected to develop their own independent projects (who'd want to miss the fun of doing that?) but will also have opportunities to collaborate on a new NSF-funded investigation of hybridization and adaptation to herbivory in wild sunflowers.

Rice's Ecology and Evolutionary Biology (EEB) program boasts an exceptionally active faculty and a dynamic group of graduate students. We also have great facilities, including new molecular labs and a brand-new 3600 sq. ft. greenhouse. Areas of emphasis include interspecific interactions, mutualism, cooperation, herbivory, and invasion biology. Outstanding fellowship-based financial support is available for Ph.D. students.

For more info please contact:

Ken Whitney email: kwhitney@rice.edu personal webpage:

<http://www.ruf.rice.edu/~kwhitney/> lab webpage:

<http://www.ruf.rice.edu/%7Eplanteco/index.html>

Please also check out the research pages for my exceptional colleagues, many of whom are also accepting students:

<http://eeb.rice.edu/faculty.html> Ken Whitney
<kwhitney@rice.edu>

Rotterdam HumanPopulationGenetics Forensics

PhD student position in Forensic Molecular Biology and Genetics,

Department of Forensic Molecular Biology, Erasmus University Medical Center, Rotterdam, The Netherlands

A 4 year PhD student position in molecular biology and genetics is available in the Department of Forensic Molecular Biology, Erasmus University Medical Center, Rotterdam, The Netherlands. The general area of research is in identifying and understanding human individual and population differences (geographic origin, visible / physical traits, evolutionary genetic adaptation) for fundamental biological interest but also for potential future application to forensics. We are using state-of-art D/RNA including genome-wide technologies to identify respective regions / markers including dedicated follow-up studies. A suitable applicant will hold a M.Sc. in molecular biology or molecular genetics. Exceptional B.Sc. students are also encouraged to apply. Practical skills in RNA technologies, gene expression analysis, including qPCR, are strongly required. Experience in statistical data analysis would be an advantage. The Erasmus University Medical Center, especially its Medical-Genetic Cluster offers a highly international and stimulating research environment with English as working language (www.erasmusmc.nl/medical.genetics). The city of Rotterdam offers a multicultural and exciting living environment in close proximity to other highlights of Europe (e.g. Paris, London, Berlin, and Brussels). Gross salary is on average 2295 EUR per month. Application deadline: December 1, 2007. Applicant should email a curriculum vita, statement of research interest two pages and three letters of reference to Prof. Manfred Kayser, m.kayser@erasmusmc.nl

– Prof. Dr. Manfred Kayser Head, Department of Forensic Molecular Biology, Erasmus University Medical Centre Rotterdam, PO Box 2040, 3000 CA Rotterdam, Netherlands, tel. ++31-10-4638073, fax. ++31-10-4089300, web <http://www.erasmusmc.nl/fmb/> m.kayser@erasmusmc.nl

SanFranciscoStateU EvolBiol

The Ecology and Evolution Group at San Francisco State University is offering 13 fellowships for Master's students (M.S.) starting Fall of 2008, funded by the S-STEM program of the National Science Foundation and the Department of Biology at SFSU. Each fellowship recipient will receive \$17,000 per year for up to two years.

The Master's degree program in Biology at San Francisco State University (SFSU) is nationally recognized as offering outstanding graduate training in environmental science, ecology, and evolutionary biology and for providing exceptional preparation for PhD programs and the workforce. The Department has been successful in attracting and preparing superb graduate students, and ensuring their placement in top Ph.D. programs across the nation, including the Universities of Virginia, Indiana, Harvard, Texas, and system-wide in the University California. Graduates who have chosen not to pursue a Ph.D. have successfully moved on to positions at government agencies such as the National Park Service and the National Marine Fisheries Service, and to non-profits, such as the Nature Conservancy.

With 18 full-time faculty, we have a strong and interactive evolution and ecology group with particular strength in conservation biology, systematics and population biology. Our class sizes are small and students work closely with their advisors on research projects. Opportunities abound for field research in a diverse array of habitats including the Pacific coast, Golden Gate National Recreation Area and Point Reyes National Seashore all within 1-2 hour drives from campus, and the Sierra Nevada within a 4 hour drive. For more information, please visit our website <http://www.sfsu.edu/~biology/pages/sstem2.html>.

We strongly encourage interested applicants to make contact with potential faculty advisors early in the application process.

Eric Routman, Professor Department of Biology San Francisco State University 1600 Holloway Ave. San Francisco, California 94132 Phone: 415/338-1196 FAX: 415/338-2295

"Eric(work)" <routman@sfsu.edu>

SangerInstitute Genomics

Graduate Studies At The Sanger Institute: Four Year PhD Programme DEADLINE: Wednesday 12th December 2007 MORE DETAILS: <http://www.sanger.ac.uk/careers/phd/> This is a great opportunity for students interested to do a PhD at an internationally leading genome center.

The Wellcome Trust Sanger Institute PhD programme provides research opportunities and training for graduate students who wish to study for a 4-year PhD degree registered at the University of Cambridge commencing in October 2008. To see the type of research undertaken at the Wellcome Trust Sanger Institute please visit our Faculty Members pages (<http://www.sanger.ac.uk/Teams/faculty/>).

In the last few years the Sanger Institute has hired faculty and developed programs in population genetics and evolutionary biology of humans and pathogens. There are great opportunities to participate and interact with internationally leading colleagues from Sanger and other well known academic institutions.

Academic Requirements Candidates are expected to hold, or obtain, a 1st or an upper 2nd class degree or equivalent overseas qualifications. GRE results may be required from overseas applicants. The studentships will be allocated on a competitive basis after the Open Day and students who gain a place in our PhD programme will obtain full financial support (see: <http://www.sanger.ac.uk/careers/phd/-financialsupport.shtml>) including tuition regardless of nationality. Sanger studentships are extremely competitive, and we strongly encourage you to seek your own funding.

Emmanouil (Manolis) Dermitzakis, PhD Investigator Population and Comparative Genomics The Wellcome Trust Sanger Institute Wellcome Trust Genome Campus Hinxton, Cambridge CB10 1SA UK e-mail: md4@sanger.ac.uk Tel: +44 (0)1223 494866 Fax: +44 (0)1223 494919 URL: <http://www.sanger.ac.uk/Teams/Team16/> – The Wellcome Trust Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

Manolis Dermitzakis <md4@sanger.ac.uk>

Smithsonian EvolBiol

Fellowship Program

The Smithsonian Tropical Research Institute (STRI), is a division of the Smithsonian Institution in Washington DC and maintains research facilities for marine and terrestrial research at various locations on the Isthmus of Panama. STRI offers fellowships for undergraduate, predoctoral and postdoctoral research in the areas represented by its scientific staff. Disciplines include ecology, anthropology, paleontology, paleoecology, evolutionary biology, molecular phylogenetics, biogeography, animal behavior, neurobiology, soils sciences, and physiology of tropical plants and animals. Fellowships administered directly by STRI: Earl S. Tupper 3-Year Postdoctoral Fellowship (deadline 15 of January of each year): Applications should include a research proposal with budget, curriculum vitae, 2 letters of recommendation, and names of 3 additional references. Applicants should consult with STRI scientists asked to serve as advisors before submitting the final application.

Short Term Fellowships (deadlines: February 15, May 15, August 15 and November 15 of each year). Support is provided to carry out short-term research projects in the tropics.

Fellowship Program for students in Latin America (deadlines: February 15, May 15, August 15 and November 15). Support is provided for short-term projects and internships. Candidates must be from universities in Latin America, particularly Central America and Panama.

A. Stanley Rand Fellowship Program (deadlines: February 15, May 15, August 15 and November 15). Support is provided for short-term research in the tropics focused on animal behavior, natural history, evolutionary biology, plant and animal ecology and environmental monitoring.

Applications to STRI may be submitted in either English or Spanish. They should consist of one (1) printed copy, plus one electronic copy of all requested materials. The electronic copy should be submitted on a CD or by e-mail (to fellows@si.edu), as a single file in Word, WordPerfect, or preferably PDF, including application form, proposal with budget and CV. Send hard copy of the application to STRI/Office of Academic Pro-

grams, Unit 0948, APO AA 34002-0948 (from the US); or Apartado 0843-03092, Balboa, Panama from elsewhere.

For more information and instructions about STRI fellowships visit www.stri.org, or contact fellows@si.edu

The Smithsonian Institution through its Office of Research Training and Services in Washington, DC also has fellowship programs that include research at STRI. These fellowships are:

SI 10-Week Graduate Student Fellowships (deadline 15JAN08): For graduate students or PhD students not advanced to candidacy to carry out research under the guidance of a Smithsonian staff member.

SI Postdoctoral, Senior Postdoctoral and Predoctoral Fellowships (deadline 15JAN08): Postdoctoral Fellowships are offered to scholars who have held the Ph. D. degree or equivalent for less than seven years. Senior Postdoctoral Fellowships are offered to candidates who have had their PhD for seven years or longer. Predoctoral Fellowships are offered to PhD students advanced to candidacy. Fellowships are from 3 months to two years depending on research.

SI Molecular Evolution Postdoctoral Fellowships (deadline: 15JAN08): For scholars who have held a doctoral degree or equivalent for less than seven years, to support research on an aspect of molecular evolution, population genetics, or systematics. For more information on fellowships administered by the SI Office of Research Training and Services visit: www.si.edu/-research+study For direct mail to the Office of Research Training and Services: Office of Research Training and Services Smithsonian Institution 470 L'Enfant SW Suite 7102 MRC 902 PO Box 37012 Washington, DC 20013-7012 For express mail services: Office of Research Training and Services Smithsonian Institution 470 L'Enfant Plaza SW Suite 7102 Washington, DC 20024

Note: Those applying to fellowships administered by the SI Office of Research Training and Services should also send one electronic copy of the entire application to fellows@si.edu.

Awards are based on merit, without regard to race, color, religion, gender, national origin, age or condition of handicap of the applicant.

“Bilgray, Adriana” <BilgrayA@si.edu>

SouthernIllinoisU AncientSexuality

Ph.D. Graduate Assistantship, at Southern Illinois University

A graduate research assistantship is available from Fall 2008 to support a PhD student interested in studying the evolution and maintenance of sexual reproduction. Funded by NSF, our lab is using a mite from a putatively anciently asexual clade to investigate possible mechanisms behind this exceedingly unusual situation. The position will be located at Southern Illinois University in Carbondale in the laboratory of Dr. Richard H. Thomas < <http://www.science.siu.edu/zoology/people/thomas.html> >

Applicants should be enthusiastic and capable of working independently. Prior experience with DNA and RNA extraction, PCR, in situ hybridization, and/or microscopy is preferred. The successful candidate will play a significant role in developing his/her research project.

Prospective students should contact Dr. Richard Thomas via e-mail (rthomas@zoology.siu.edu). Please include an explanation of why you want this position, a curriculum vitae, a statement of research interests and relevant experience, and the names and email addresses of three references.

Review of applications will begin in mid-November and continue until the position is filled.

rthomas@zoology.siu.edu rthomas@zoology.siu.edu

StonyBrookU EvolBiol

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Ecology and Evolution at Stony Brook University is recruiting graduate students for Fall 2008. Our graduate program trains students in Ecology, Evolution and Biometry. The following faculty are seeking graduate students for their labs:

H. Resit Akcakaya <http://life.bio.sunysb.edu/~akcakaya/> Stephen B. Baines [\[life.bio.sunysb.edu/~sbaines/\]\(http://life.bio.sunysb.edu/~sbaines/\) Michael A. Bell <http://life.bio.sunysb.edu/ee/belllab/> David O. Conover <http://www.msrc.sunysb.edu/~conover> Daneil Dykhuizen <http://life.bio.sunysb.edu/-dykhuizenlab/> Walter F. Eanes <http://-life.bio.sunysb.edu/ee/eaneslab/> John G. Fleagle <http://gibbon.anat.sunysb.edu/Department/-jfleagle.html> R. Geeta <http://life.bio.sunysb.edu/ee/-geeta/> Lev Ginzburg <http://life.bio.sunysb.edu/ee/people/ginzbgindex.html> Jeffrey Levinton <http://life.bio.sunysb.edu/marinebio/levinton.main.html> Steve Munch <http://msrc.sunysb.edu/-people/munch.htm> Dianna K Padilla <http://-life.bio.sunysb.edu/ee/padillalab/padilla/index.htm> Massimo Pigliucci \[www.genotypebyenvironment.org\]\(http://www.genotypebyenvironment.org\) F. James Rohlf <http://life.bio.sunysb.edu/morph> John J. Wiens <http://life.bio.sunysb.edu/ee/-wienslab/homepage.html> Pat C Wright <http://-icte.bio.sunysb.edu> For more information regarding the Graduate Program in Ecology and Evolution see:](http://-</p>
</div>
<div data-bbox=)

<http://life.bio.sunysb.edu/ee> and <http://-life.bio.sunysb.edu/ee/ee-doct.html> The deadline for receipt of all application materials is January 15. For additional assistance, e-mail our Graduate Program Coordinator, Iris Roth, iroth@notes.cc.sunysb.edu

Written by Dianna K. Padilla Posted by Michael A. Bell Department of Ecology and Evolution Stony Brook University Stony Brook, NY 11794-5245, USA

mabell@life.bio.sunysb.edu

TexasAMU DrosophilaBacteria

I am looking for highly motivated graduate students to work on the evolution of the association between *Drosophila* flies and *Spiroplasma* bacteria. The research involves examination of the fitness effects of symbiont on hosts, evolutionary relationships of host and symbiont populations, comparative genomics of symbionts, and functional genomics of the host.

If you are interested, please email me (mmateos@tamu.edu) a CV including references, a letter of interest (1-2 pages), a list of relevant course work and GPA.

Mariana Mateos, Ph.D. Assistant Professor Section in Ecology and Evolutionary Biology Department of Wildlife and Fisheries Sciences Texas A&M University 320B Heep Laboratory Building 2258 TAMUS

College Station, TX 77843-2258 Phone: 979-847-9462 Fax 979-845-4096 Email: mmateos@tamu.edu <http://wfsc.tamu.edu/mateoslab/> Mariana Mateos <mmateos@tamu.edu>

search at UAF can be found: <http://www.bw.uaf.edu/> <http://www.iab.uaf.edu/> <http://www.iab.uaf.edu/-research.php> ffdew2@uaf.edu ffdew2@uaf.edu

UAlaska SelfIncompatibility

We currently have NSF funding for an MS or PhD level student to work on the evolution of self-incompatibility genes in poppies (Papaveraceae) at the University of Alaska.

The ideal student for this project will either have molecular lab skills (such as DNA sequencing), and/or data analysis skills (math, computer, coalescence theory). However, all high-quality students with an interest in evolutionary genetics are encouraged to apply for Spring or Fall admission.

Alaska offers unparalleled beauty, untouched landscapes, and unique research opportunities, as well as an extreme climate and unique culture. Research at UA includes topics such as adaptations to our extreme climate, the unique evolutionary history of organisms influenced by glacial cycles and migrations from both North American and Asia, climate change, how interactions among species influence community composition.

The goal of the project is to sequence and identify self-incompatibility alleles from the genus *Papaver*, and investigate the patterns of molecular evolution at this locus. Students will also be encouraged to develop their own interests in areas related to this project. For instance, investigating the number of self-incompatibility alleles and mate availability in *Papaver* species with different evolutionary histories. There are several rare (federally listed) poppy species in Alaska which are not found elsewhere in North America, and there is likely to be interesting conservation work that can be done on these species, such as investigating their self-incompatibility status and ability to find mates, levels of genetic diversity, and their divergence from eastern Russian populations, and relationships to other Beringian poppies. There are also opportunities for developing theory on the evolution of self-incompatibility genes.

Please contact: Diana Wolf ffdew2@uaf.edu <http://www.faculty.uaf.edu/ffdew2/> and/or

Naoki Takebayashi ffnt@uaf.edu <http://www.faculty.uaf.edu/ffnt/> More information about re-

UAlberta Insect cons genetics

UAlberta_insect.cons.genetics

A Ph.D. opportunity is available for research on the threatened Mormon metalmark (*Apodemia mormo*) butterfly population in and around Grasslands National Park, Saskatchewan, Canada. The successful candidate would study at the University of Alberta, Edmonton, Alberta. Fieldwork would take place in southern Saskatchewan and possibly Alberta. Working conditions are challenging and *A. mormo* field sites are hot, dry, remote, and typically occur in badlands. The ideal candidate would have considerable experience working in an arid prairie or desert environment as well as a background in conservation genetics and insect biodiversity/systematics. A significant portion of this research is funded by Parks Canada and teaching assistantships are available depending on the applicant's GPA. The successful candidate will start in either January or May 2008. The applicant must meet or exceed the entrance requirements for The University of Alberta, Department of Biological Sciences, which can be viewed at: <http://www.biology.ualberta.ca/-programs/graduate/prospective/?PageE11> Interested individuals should send a CV and a copy of any publications to:

Shelley Pruss, Ph.D., Species at Risk Recovery Specialist Resource Conservation, Western and Northern Service Centre, Parks Canada Agency 13th Floor, 635 - 8th Ave., S.W., Calgary, Alberta, T2P 3M3 Ph: (403) 292-5451, Fax: (403) 292-4404, Email: Shelley.Pruss@pc.gc.ca

or

Dr. Felix Sperling, Professor, Department of Biological Sciences CW405a Biological Sciences Centre, University of Alberta Edmonton, Alberta, T6G 2E9, Canada Ph: (780) 492-3991, Email: felix.sperling@ualberta.ca Felix Sperling <felix.sperling@ualberta.ca>

UBritishColumbia MolecularEvol

A Graduate Assistantship (M.S. or Ph.D.) is available in the lab of Dr. Keith Adams at the University of British Columbia (UBC) in the area of plant molecular evolution starting in September 2008. I am looking for a highly motivated graduate student to work on a project about the evolution of duplicated gene expression in polyploid or hybrid plants (*Gossypium*, *Arabidopsis*, or *Populus*). See my web page at <http://www.botany.ubc.ca/people/adams.htm> Informal inquiries about the research area are welcome.

UBC has a strong and interactive group of evolutionary biologists (see <http://www.zoology.ubc.ca/evolution/>), including several in the Department of Botany (<http://www.botany.ubc.ca>) and at the UBC Botanical Garden & Centre for Plant Research (<http://www.ubcbotanicalgarden.org/research>).

Candidates should have a strong undergraduate background in biology, with course work in molecular genetics and evolutionary biology, and prior research experience with molecular techniques is desirable. For more information contact Keith Adams at keitha@interchange.ubc.ca

Keith Adams Assistant Professor Botany Department and Centre for Plant Research University of British Columbia Vancouver, Canada

keitha@interchange.ubc.ca keitha@interchange.ubc.ca

UCaliforniaBerkeley HawaiianDrosophilaEvol

Ph.D. Position, Evolutionary Biology of the Hawaiian Drosophilidae at University of California, Berkeley

A Graduate Student Assistantship is available starting in Fall 2008 to study the evolutionary biology of the Hawaiian Drosophilidae. Successful applicants will develop a research project that combines phylogenetic, population genetic, and genomic techniques to understand the diversification of the Hawaiian Drosophilidae. Integration of lab, field, and behavioral experiments are important components of this work. Additional

information about research projects in the lab can be found at: <http://nature.berkeley.edu/ogradylab/>. Applicants should be independent, motivated, and have experience with DNA and RNA extraction, PCR, DNA sequencing, microsatellite development, and/or computational analysis of DNA sequences.

Interested students should contact Dr. Patrick O'Grady via email (ogrady@nature.berkeley.edu). Applicants should apply to the graduate program in the Department of Environmental Science, Policy, and Management (http://espm.berkeley.edu/gradprograms/grad_programs_admissions.php) at UC Berkeley. For Fall 2008 admittance, application material should be received no later than 3 December 2007.

Patrick M. O'Grady, Ph.D. Assistant Professor University of California, Berkeley Department of Environmental Science, Policy & Management Division of Organisms and the Environment 137 Mulford Hall Berkeley, CA 94720 ogrady@nature.berkeley.edu tele: (510) 642-0662 fax: (510) 643-5098 <http://nature.berkeley.edu/ogradylab/index.html> Patrick O'Grady <ogrady@nature.berkeley.edu>

UCambridge Butterfly BioinformaticsEvoDevo

Applicants are encouraged for a PhD studentship(s) in the Butterfly Genetics Group at the University of Cambridge to begin in October 2008 funded by the Leverhulme Trust (see http://heliconius.zoo.cam.ac.uk/pg_opps.php). The following are possible research areas:

1) Colour pattern genetics and Evo-Devo

We are interested in the genetic and developmental basis of colour pattern evolution in *Heliconius* butterflies. *Heliconius* offer exciting opportunities in this field because they have bold patterns with known function in the wild and which show huge diversity between closely related populations. Mimicry is also common, whereby relatively distantly related lineages converge on a common pattern - in effect independent evolutionary experiments. We have obtained some exciting data showing that the same genes control patterns in different lineages - see Joron et al., (2006). This offers exciting opportunities for comparative projects to discover how just a few genes can control both divergent and con-

vergent patterns. The important thing to note here is that we are studying very recent evolutionary novelty (unlike much of the evo-devo literature on traits like body plan) - so are much closer in time to the key evolutionary changes.

Possible projects include 1) transcriptome microarray analysis of expression patterns during development of wing patterns in different races of *Heliconius melpomene*. 2) Development and application of novel techniques for gene manipulation during wing development to investigate candidate genes for colour pattern control loci, such as transfection of developing wings with gene transcripts or RNAi gene knockdown. 3) Linkage mapping of pattern loci that have not been studied to date, such as the *H. melpomene* Ac locus, and QTL analysis of genes of minor effect.

2) Bioinformatics

We are generating large amounts of both genome and transcript sequence data for different *Heliconius* species (see www.butterflybase.org). Genome information from closely related species offers exciting opportunities for comparative analysis and especially identification of evolutionary patterns in sequence evolution (see recent Nature paper, Nov 2007 on 12 *Drosophila* genomes for an example of this on a massive scale!). Here we are particularly interested in transcriptome sequence data from developing wings and its relevance to colour pattern evolution.

Possible projects involving analysis of these data include 1) comparisons of synteny across the Lepidoptera taking advantage of both newly available resources for *Bombyx mori* and our own data which include a fingerprinted and end-sequenced BAC library for *H. melpomene*. 2) Developing assembly and annotation tools for data sets combining novel short "454" sequence reads with traditional Sanger sequence. 3) Comparative analysis of multi-species data sets that will soon be available for *Heliconius melpomene*, *H. erato* and *H. numata* to identify *Heliconius*-specific transcripts and fast-evolving genes. We are keen that this analysis would be carried out in conjunction with development of the ButterflyBase web server where our data are made publicly available.

What to do If you are interested then you should first get in touch with me (Chris Jiggins, c.jiggins@zoo.cam.ac.uk) and send: (1) CV. (2) Details of 2 or 3 Referees - also ask them to email me their references. (3) A cover letter describing your interests, and what you would like to work on.

Please note closing dates for application to the university. Students from the EU and Overseas must send

their applications to the Board by 21 December 2007 at the latest.

Chris Jiggins Department of Zoology University of Cambridge Downing Street Cambridge CB2 3EJ
Tel: (+44)(0)1223 769021 Fax: (+44)(0)1223 336676 <http://www.heliconius.org/> Chris Jiggins
<c.jiggins@zoo.cam.ac.uk>

UEastAnglia MHCevolution

The role of pathogens in promoting genetic variation and differentiation in wild animals: a study on Berthelot's pipits.

PhD Studentship at UEA, starting October 2008

Supervisor: Dr. DS Richardson (and Dr. JC Illera, IPNA-CSIC, Canary Islands).

Vertebrate MHC genes code for molecules that bind pathogens and trigger an immune reaction. They are the most variable genes known but we are far from understanding the evolutionary processes that generate this variation. Pathogen mediated selection plays a major role, but the nature and extent of this remains unclear. The concept that fluctuating selection can drive MHC variation has received theoretic support, but has been overlooked empirically. The basis of the hypothesis is that temporal and geographical variation will occur in the pathogens that a population faces, resulting in fluctuations in the selection exerted. However, no studies have measured differences in the pathogen regime faced by different populations of a species in order to investigate the effect it has upon the MHC. The aim of this PhD is to determine the spatio-temporal patterns of MHC in relation to differences in pathogen exposure across 12 isolated populations of Berthelot's pipit (*Anthus berthelotii*) in the Macaronesian islands to investigate this. This species provides an excellent system of demarked populations undergoing incipient differentiation with known differences in the pathogens occurring in each population. The project will also allow important questions relating to the impact of pathogens and the evolution of disease resistance in wild populations to be explored. Investigations of other behavioural and ecological differences between the populations may also be incorporated.

We are looking for an enthusiastic and dedicated student interested in evolutionary and molecular ecology (and ornithology). Fieldwork (3 months/year) will in-

involve catching birds across all islands, and while there is local support (Dr. JC Illera) the student must be able to work independently. The student will use various molecular techniques to measure genetic variation within and among populations and to screen the pathogens that infect pipits. Although not essential, molecular lab experience will be an advantage, as will experience in handling birds and good organisational skills.

Please apply ASAP

For further details and an application form:

<http://www.uea.ac.uk/bio/studentships/welcome.html>
Or contact

Dr. David S. Richardson, School of Biological Sciences,
University of East Anglia, Norwich NR4 7TJ

Email: david.richardson@uea.ac.uk

Dr. David S. Richardson School of Biological Sciences,
University of East Anglia, Norwich NR4 7TJ England

<http://bioweb2.bio.uea.ac.uk/faculty/-RichardsonDS.aspx> email david.richardson@uea.ac.uk
< <http://bioweb2.bio.uea.ac.uk/bioperson/-facultyasp/RichardsonDS.aspx> > Telephone 01603 591496 FAX 01603 592250

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

UFlorida EvoEcology

M.S. Position: Evolutionary ecology of insects at the University of Florida

A research position is available in the laboratory of Dr. Christine W. Miller to explore the evolution of behavior and morphology in the leaf-footed bugs (Coreidae) in Florida and/or Panama. This position would be excellent for a student interested in animal behavior, plant-insect interactions, phenotypic plasticity, and/or sexual selection. Integration of field projects and laboratory experiments is an important aspect of this work. Additional information about this research program can be found at: <http://entnemdept.ufl.edu/-Christine.Miller.htm> . Applicants should be enthusiastic, motivated, independent, and have previous biological research experience.

Interested prospective students should contact Dr. Christine W. Miller (cwmiller@ufl.edu). The suc-

cessful student would become a part of the graduate program in the Department of Entomology and Nematology at the University of Florida (<http://entnemdept.ifas.ufl.edu/index.html> and <http://www.admissions.ufl.edu/grad/>). Application materials should be submitted by February 1, 2008.

Information about Gainesville, Florida:

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

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

Christine W. Miller Entomology and Nematology
Department University of Florida PO Box 110620
Gainesville, FL 32611 Phone: 352-392-1901 x123

email: cwmiller@ufl.edu website: <http://entnemdept.ufl.edu/Christine.Miller.htm>
“Miller,Christine Whitney” <cwmiller@ufl.edu>

UFlorida EvolutionaryBiology

The graduate program of the Department of Zoology at the University of Florida, Gainesville, is seeking outstanding applicants for the 2008-2009 academic year.

The department was recently ranked #1 among US institutions in the discipline of Zoology, as reported in the Chronicle of Higher Education (Nov 2007). The evolutionary biology group in the department consists of over a dozen faculty with diverse interests in Behavior, Comparative Physiology and Morphology, Evolution of Development, Evolutionary Ecology,

Evolutionary Genetics and Genomics, Molecular Evolution and Systematics (< <http://www.zoo.ufl.edu/> -><http://www.zoo.ufl.edu/>). In addition, the UF community is populated with dozens of other scientists with research interests in evolutionary biology, many of whom enjoy close collaborative relationships with members of the department. The UF Interdisciplinary Center for Biotechnology Research provides state-of-the-art services in genomics, proteomics, and bioinformatics to UF researchers.

Gainesville is a pleasant, family-friendly college town in north-central Florida, with a wide variety of outdoor recreational opportunities, and a vibrant cultural life (<http://www.cityofgainesville.org/about/>). The Atlantic and Gulf coasts are each within a 90-minute drive.

Application info available at <http://www.zoology.ufl.edu/GRADUATE/> Charles F. Baer Assistant Professor Department of Zoology 223 Bartram Hall P. O. Box 118525 University of Florida Gainesville, FL 32611-8525 USA

Phone: 352-392-3550 Fax: 352-392-3704 Email: cbaer@zoo.ufl.edu web: <http://www.zoo.ufl.edu/faculty/baer.html> cbaer@zoo.ufl.edu

UGeorgia EvolutionaryBiology

The Department of Genetics at the University of Georgia is seeking outstanding graduate students interested in evolutionary biology, ecological genetics, population genetics and genomics for the 2008-2009 academic year. The University has a strong tradition of research in evolutionary biology, with faculty members representing a range of research strengths, from genes and gene pathways to organisms and populations. The department continues to build in the area, with several recent hires. (See list of faculty below)

All students in the Department of Genetics are guaranteed full funding for at least five years. Ph.D. Students are funded through a variety of mechanisms, including University Presidential Scholarships and Graduate School Assistantships, research assistantships, teaching assistantships, and our NIH training grant, which has been held by our department continuously since 1975.

UGA is located in Athens, Georgia, which is a great place to live. The cost of living is low, the downtown is lively with one of the most active music scenes in

the country, and the restaurants are excellent. Athens is just over an hour from Atlanta and also about an hour from the superb hiking, kayaking, and biological diversity of the southern Appalachian Mountains.

For more info, see <http://www.genetics.uga.edu> . Applications are due January 2nd, 2008, and can be filled out online at http://www.genetics.uga.edu/graduate_application.html . For more information, you can contact our graduate coordinator, Dr. Mary Bedell, at bedell@uga.edu. For specific information about training in evolutionary biology at UGA, contact Daniel Promislow (promislow@uga.edu).

Evolutionary Biology faculty and adjunct faculty in Genetics Wyatt Anderson (Evolutionary Genetics in Drosophila) Jonathan Arnold (Evolutionary Genomics and Systems Biology) Michael Arnold (Hybridization and Evolution) Jeffrey Bennetzen (Genome Structure and Evolution) John Burke (Plant Evolutionary Genetics) Shu-Mei Chang (Plant Mating System Evolution) Kelly Dyer (Evolutionary Genetics and Genomic Conflict in Drosophila) David Hall (Evolution Theory, Experimental Evolution in Yeast) James Hamrick (Genetic Structure of Natural Populations) Mark Jensen (Molecular Epidemiology of Infectious Diseases) Jessica Kissinger (Informatics and Genome Evolution in Parasites) Ed Larson (Legal, Historical and Social Issues Relating to Life Sciences) Russell Malmberg (Bioinformatics and Epistasis) Nancy Manley (Evo/Devo) Rodney Mauricio (Ecological Genetics) David Moeller (Ecological Genetics of Natural Populations) Andrew Paterson (Genome Structure and Evolution) Daniel Promislow (Evolution of Aging and Immunity) Ken Ross (Evolutionary Genetics of Social Insects) Paul Schliekelman (Statistical Genomics and Population Genetics) Mike Strand (Immunity and Host-Parasite Interactions) John Wares (Ecological Genetics of Natural Populations) Susan Wessler (Genome Structure and Evolution)

Daniel Promislow <promislow@uga.edu>

UGeorgia PlantEvolution

The Department of Plant Biology at the University of Georgia seeks highly motivated Ph.D. students to join our graduate program in evolutionary biology. Ongoing research in the Department investigates fundamental questions in organismal and molecular evolution using a range of approaches including population and quanti-

tative genetics, molecular systematics, and comparative genomics.

Graduate fellowships, assistantships, research support and travel grants are available for qualified candidates.

General departmental information can be found on the web at:

<http://www.plantbio.uga.edu/> And application information can be found at:

<http://www.plantbio.uga.edu/graduate.html> Plant Biology-affiliated faculty with evolutionary interests include:

Mike Arnold (http://www.genetics.uga.edu/people.bio_arnold_m.html) Jeff Bennetzen (<http://www.genetics.uga.edu/jlblab>) John M. Burke (<http://www.theburkelab.org/>) Shu-Mei Chang (<http://www.plantbio.uga.edu/~chang/chang.html>) Katrien Devos (<http://www.cropsoil.uga.edu/faculty1/devos.htm>) Lisa Donovan (<http://www.plantbio.uga.edu/~donovan/donovan.html>) Mark Farmer (<http://www.uga.edu/cellbio/farmer.html>) Jim Hamrick (<http://www.plantbio.uga.edu/~hamrick/hamrick.html>) Jim Leebens-Mack (<http://www.plantbio.uga.edu/~jleebensmack/JLMmain.html>) Russell Malmberg (<http://www.plantbio.uga.edu/~russell/index.html>) Rodney Mauricio (<http://www.genetics.uga.edu/mauriciolab/>) Andy Paterson (<http://www.plantgenome.uga.edu/>) Sue Wessler (<http://www.plantbio.uga.edu/~suew>) Xiaoyu Zhang (<http://www.plantbio.uga.edu/~xiaoyu/>) Wendy Zomlefer (<http://www.plantbio.uga.edu/~wendyz/wendyz.html>)

– John M. Burke, Ph.D. Tel: 706.583.5511 Fax: 706.542.1805 <http://www.theburkelab.org/> University of Georgia Department of Plant Biology Miller Plant Sciences Athens, GA 30602

jmburke@uga.edu jmburke@uga.edu

UHelsinki SticklebackEvolutionaryGenet

The Ecological Genetics Research Unit (EGRU), Department of Biological and Environmental Sciences, University of Helsinki, invites applications for

Doctoral Student Position

in the field of evolutionary genetics of sticklebacks. The

assignment will begin on the early 2008 (start date is flexible) and end in the end of 2010. EGRU is part of the Finnish Centre of Excellence in Evolutionary Genetics and Physiology (www.coe.fi).

The thesis will focus on identification of genes and genomic regions subject to directional selection stemming from local differences in specific environmental conditions. The planned work includes QTL-mapping, hitchhiking mapping, gene expression and sequence analyses of candidate genes as well as phylogenetic analyses of gene sequences. The model species will be the nine-spined stickleback (*Pungitius pungitius*).

A successful candidate for this position will have background in population genetics/genomics and evolutionary biology. Experience and inclination on practical laboratory work with microsatellites/SNPs and/or gene sequences is essential. Applications without a demonstrated interest and/or research history in genetics will not be considered.

We are looking for an individual with a Masters Degree or equivalent, who is highly self-motivated and can work both independently and in a team. The working language will be English. The thesis work will be supervised by Dr. Takahito Shikano and Prof. Juha Merilä.

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, and the job-specific component of the salary will thus be EUR 1 678 per month. In addition, the appointee will be paid a salary component based on personal work performance.

The application should include a complete - CV - Publication 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, Professor Juha Merilä, P. O. Box 56 (Viikinkaari 9), FIN-00014 University of Helsinki, to arrive no later than 15th December 2007, by 3:45 p.m. (local Helsinki time).

More information about Finland, University of Helsinki, and Department of Biological and Environmental Sciences can be found from the following links: www.helsinki.fi/en/index.html (city) www.helsinki.fi/-university/ (university) <http://www.helsinki.fi/bio/-english/> (department)

Helsinki, November 22, 2007 Administration Office –
Juha Merilä Ecological Genetics Research Unit Department of Biological and Environmental Sciences PO Box 65 (Biocenter 3, Viikinkaari 1) FIN-00014 University of Helsinki Finland

Fax: +358-9-191 57 694 Tel (gsm): +358-40-8374165 Tel (secr.): +358-9-191 57797 E-mail: juha.merila@helsinki.fi

juha merila <juha.merila@helsinki.fi>

UHouston EvolBiology

GRADUATE OPPORTUNITIES IN EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) is recruiting graduate students for its graduate program in Evolutionary Biology and Ecology for Fall 2008. The following faculty in the area of Evolutionary Biology and Ecology are seeking graduate students for their labs:

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

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

http://www.bchs.uh.edu/grad_intro.htm The deadline for application of prospective students is April 1st, 2008, but we strongly encourage serious applicants to apply in January or February.

Ricardo Azevedo <razevedo@uh.edu>

PhD thesis in MHC evolution and parasite-host interaction

A Ph.D. studentship (E13TV-L/2) in fish ecology and evolution is available from January 2008 in the group of Jasminca Behrmann-Godel at the Limnological Institute of the University of Konstanz.

The thesis will focus on parasite-host interactions and investigate local and seasonal differences in the parasite community of Eurasian perch and ruffe and its relation to individual immune Parameters (MHC alleles). The planned work includes field and laboratory work such as catch and preparation of fish for parasite assessment and molecular genetics work (fragment analysis and sequencing). The thesis will be financed within the SFB 454 \$B!H(BLittoral of Lake Constance\$B!I(B (<http://www.uni-konstanz.de/sfb454/>) and cooperation with other working groups within the SFB 454 is planned and desired.

The lab of Jasminca Behrmann-Godel studies ecology and evolution using fish as model species. Ongoing projects range from behavioural experiments on MHC triggered mate choice, kin and population recognition to molecular evolution of MHC genes in fish and phylogeography of the Lake Constance region. A description of our research can be found at <http://www.uni-konstanz.de/fish-ecology/> A successful candidate will have a strong background in evolutionary biology. Experience in parasitology is advantageous. We are looking for an individual with a Masters Degree or equivalent, who is highly self-motivated and can work independently.

Closing date for applications: December 20, 2007

Curriculum Vitae, a letter of application highlighting recent relevant experience, and the names, addresses and e-mail addresses of at least two referees should be sent as a single pdf file to:

Contact address: Jasminca.Behrmann@uni-konstanz.de

Jasminca Behrmann-Godel Limnological Institute University of Konstanz 78457 Konstanz Germany

Jasminca Behrmann-Godel
<Jasminca.Behrmann@uni-konstanz.de>

ULausanne EvolBiology

UKonstanz FishEvolution

Competitive PhD fellowships are currently available at

the University of Lausanne, Switzerland (starting in August 2008). The Dept. of Ecology and Evolution invites applications from highly motivated students to apply for these fellowships. You are strongly encouraged to contact a potential supervisor in the Dept. of Ecology and Evolution in advance before making your application.

The Dept. of Ecology and Evolution at University of Lausanne comprises over 20 independent research groups in a wide range of fields in ecology, evolution and conservation biology.

For details of the Department of Ecology and Evolution see:

<http://www.unil.ch/dee> for details of the fellowships and application procedure go to the link below or look at the announcement in Nature (October 18 issue):

http://www.unil.ch/fbm/page28381_en.html Regards,
Ian Sanders

Ian R. Sanders Professor of Evolutionary Biology Dept. of Ecology & Evolution University of Lausanne Biophore Building 1015 Lausanne Switzerland

Tel (direct): +41 21 692 4261 Tel (Secretary): +41 21 692 4260 Fax: +41 21 692 4265 Email: ian.sanders@unil.ch

http://www.unil.ch/dee/page7238_en.html
Ian.Sanders@unil.ch

UMaryland AvianEvolution

I am seeking graduate students interested in participating in a long term study of satin bowerbirds. This is an ongoing study that has produced numerous interesting and important papers in sexual selection and the evolution of display. Outstanding opportunities exist for behavioral, physiological, and molecular studies set in the context of understanding the evolution of the mate choice process in a system in which there is very interesting and complicated behavior. If interested please contact Gerald Borgia, Department of Biology, University of Maryland, College Park, MD 20742-4415; 301 405-6943 or borgia@umd.edu. Please see my web site at <http://www.life.umd.edu/biology/borgialab/> Borgia@umd.edu

UMichigan EvoBiol

Ecology and Evolutionary Biology at the University of Michigan, Ann Arbor

The Department of Ecology and Evolutionary Biology (EEB) at the University of Michigan, Ann Arbor, is seeking highly-motivated PhD applicants for academic year 2008-2009. We have over 40 faculty members and 60 PhD students who have a diverse range of interests and expertise, studying topics that range from microbes to mastodons, tropics to tundra, and gene evolution to ecosystem ecology (<http://www.lsa.umich.edu/eeb/>). EEB is ranked among the top ten graduate schools in the USA in EEB.

PhD students are guaranteed five years of funding, which consists of a mix of fellowships, Graduate Student Instructorships (GSIs), and Graduate Student Research Assistantships (GSRAs). Students are initially assigned two faculty advisors of their choice but can switch as research interests develop.

Applications are due December 1, 2007. We encourage you to contact individual faculty members in your areas of research interest. Students apply through the Rackham Graduate School (web site). Details for applications to EEB are available at our web site (<http://www.lsa.umich.edu/eeb/>) and you can contact our EEB Graduate Coordinator, Ms. Julia Eussen (eeb.gradcoord@umich.edu), or call her at 734.615.7338.

mindell@umich.edu mindell@umich.edu

UMuenster 3 MolEvol

* 3 PhD POSITIONS IN MOLECULAR EVOLUTION AND EVOLUTIONARY BIOINFORMATICS *

THREE POSITIONS AS PhD STUDENTS ("Wissenschaftlicher Mitarbeiter") will become available in 2008 in the newly founded IEB, the Institute for Evolution and Biodiversity, University of Muenster, Germany.

RESEARCH PROJECTS will be in one or more of the

following areas: (see www.uni-muenster.de/evolution/-ebb and further links for details) muenster.de>

Position 1: Evolution of Protein Interaction and Domain Networks

Position 2: Evolution of Stress Response in Plants using Analysis of Genomic, Proteomic and Transcriptomic Data and Modelling

Position 3: Molecular Evolutionary Ecology of Adaptation to Global Warming in Marine Plants

Projects will be carried out in close collaboration with experimental groups at the IEB and the Faculty, for example the groups of Profs. Reusch (Plant Evolutionary Ecology), Kurtz (Animal Evolutionary Ecology), Bravo (Experimental Molecular Evolution) and Kudla (Plant Genetics).

ESSENTIAL QUALIFICATIONS are:

*) MSc or 4yr BSc degree (or equivalent) in biology, biochemistry, physics or bioinformatics and research experience in a biological area *) Basic skills in statistics and programming *) Motivation and proven ability to carry out research independently *) Good communication skills

Students will be supervised in a graduate school like system.

Interested candidates should send applications to Prof Bornberg-Bauer [ebb\[at\]uni-muenster.de](mailto:ebb[at]uni-muenster.de) as pdf-attachment (maximum 2 pages) detailing education, scientific career, list of publications, skills, a short statement of research interest and addresses of two supervisors willing to provide a reference.

CLOSING DATE is Dec 1st for Position 1 and 31st Jan for Positions 2 and 3. Commencing date is Feb 1st for Position 1 and any time between then and October 2008 for Positions 2 and 3.

Muenster hosts many excellent scientific institutions such as a newly founded Max-Planck Institute for biomedical research, a Centre for Nanotechnology or a great number of specialised research areas ("SFBS"). Muenster is a dynamic city with a world-famous heritage centre and in the middle of the beautiful "Muensterland". It is very lively, last not least because of the high number of students (around 20% of the residents) and the rich choice of social, cultural and sporting facilities (see www.muenster.de).

Prof. Erich Bornberg-Bauer (PhD), Institute for Evolution and Biodiversity School of Biol.Sciences, University of Muenster, Schlosspl.4 D48149 Germany Tel/Fax: +49(0)251-83-21630/21631 web: www.uni-muenster.de/evolution/ebb/ [ebb <ebb@uni-](mailto:ebb@uni-muenster.de)

UMuenster Bioinformatics

Ph.D. POSITION IN BIOINFORMATICS AND EVOLUTIONARY GENOMICS Â At least one Ph.D. position will be available at the Institute of Bioinformatics, Faculty of Medicine, University of Muenster starting January 2008. The position guarantees full financial support for up to five years.

Although the Institute of Bioinformatics has been established recently within Faculty of Medicine, it's main focus is on basic research in the area of computational genomics. For more detailed description of the ongoing projects please visit our web site <http://www.compgen.uni-muenster.de/Research.html> . However, Ph.D. projects will not be necessary limited to those described on the web site. Â Institute of Bioinformatics is a part of the University of Muenster. The official language of the Institute is English. There are great opportunities to participate and interact with internationally leading colleagues from other groups at the university including those dedicated to computational biology. We have a strong record of international collaborations including groups in Japan (NIG, JBIRC), USA (NCBI, PennState, UMD), and Poland (UAM). Â Applications, which should include an unofficial copy of the academic transcript, a resume, a letter outlining why you are interested in this position and your research experience and goals and the names and contact details of two academic referees should be sent by email to Mr. Wolfgang Garbers at GarberW@mednet.uni-muenster.de.Â Informal inquiries are welcome. Â Muenster is a dynamic city with a world-famous heritage center and is located in the middle of the beautiful "Muensterland". It is very lively, with the high number of students (around 20% of the residents) and the rich choice of social, cultural and sporting facilities (see www.muenster.de for further details).

Wojciech Makalowski Professor and Director Institute of Bioinformatics Faculty of Medicine University of Muenster, Germany fax: +49-251-8353005 phone: +49-251-8353004 (secretary) <http://www.compgen.uni-muenster.de/> wojmaka@aim.com

UNewOrleans ConsBiol

DOCTORAL FELLOWSHIPS IN CONSERVATION BIOLOGY

UNIVERSITY OF NEW ORLEANS

The Department of Biological Sciences at the University of New Orleans announces two Doctoral Fellowships in Conservation Biology beginning Fall 2008. The fellowships provide support for four years at an annual stipend of \$23-25,000 and include a full tuition waiver. The Department of Biological Sciences offers exciting opportunities for graduate student research in ecology, evolution, systematics, genetics, reproductive biology, physiology, and biochemistry. For more information on the Department, faculty research interests, and other resources, please see the website: <http://biology.uno.edu/> .< <http://biology.uno.edu/> >

Applicants should indicate their desire to be considered for a Fellowship on the standard application form for the Ph.D. program, which can be obtained online at <http://biology.uno.edu/phdprogram.aspx> or by writing to:

Graduate Coordinator Department of Biological Sciences
University of New Orleans New Orleans, LA
70148

Applicants must also file a graduate application with UNO admissions (see <http://admissions.uno.edu/app.cfm>). Applicants must be U.S. citizens or permanent residents. Applications from minority groups under-represented in the sciences are especially encouraged. Review of applications will begin on January 15, 2008 and continue until both positions are filled. UNO AA/EEO.

Nicola Mary Anthony <nanthony@uno.edu>

UOulu AnimalCulturalEvol

One PhD student position at the Department of Biology, University of Oulu, Oulu, Finland. Recent studies suggest that Sir Francis Bacon's 400 years old maxim Knowledge is power hold true also in the rest of the

animal kingdom. Many animals, such as insects, birds and mammals, have been shown to gather information in order to better anticipate future environmental conditions and to optimise own behaviour. However, very little is still known how animals gather and use information, how prevalent it is among animals, and what implications it has to individuals, populations and communities. Further, our recent studies indicate that information transfer can occur also between species and this novel theme is just awaiting exploration. This four year project, funded by the Academy of Finland, aims to examine how birds acquire and use information derived from nest predators and competing species. The theme of the PhD project is negotiable, but the major part of the work is expected to focus on social learning between species. Interspecific information usage and social learning. Cultural evolution in humans is based on social learning. V non-genetic transmission of acquired information across individuals and generations. Our recent study suggests that social learning can take place between species as well. Hence, can behavioral traits transfer between species and emerge local traditions? How does it affect species interactions and coexistence? Interspecific social learning and above questions will be examined using resident (Parus spp.) and migrant (Ficedula spp.) birds as model organisms. This newly discovered phenomena will be examined by field experiments in which apparent nest-site preference of resident birds is manipulated by abstract symbols, and the subsequent choices of flycatchers are measured. Field work will take place on Gotland. The ultimate aim is to study whether the non-genetic transmission of information via social learning shares the same attributes as genetic evolution. Part of the studies will be done in collaboration with Dr. B. Doligez (France) and Prof. L. Gustafsson (Uppsala University, Sweden). Applications and further information. Successful candidate has a M.Sc. in ecology, evolutionary ecology or related field and is interested in behavioural ecology, community ecology, habitat selection, species interactions. Experience in field work, especially in birds, is an advantage, but not necessary. The start of the position is flexible, but should not be later than March 2008. Project will be supervised by Dr. Jukka Forsman at the Department of Biology, University of Oulu. Salary will be paid according to the guidelines of Academy of Finland and University of Oulu. Interested applicants should mail a statement of interest, a brief description of undergraduate training, authorized copy of the undergraduate degree, full CV, and names and contact information of two academic referees no later than December 17th 2007 to Jukka Forsman, Department of Biology, University of Oulu, POB 3000, 90014 University of Oulu. For further information, please e-mail (jukka.forsman@baanamail.fi) or

phone (+358-(0)8-5531951) to me.

jukka forsman <jukka.forsman@baanamail.fi>

UppsalaU HumanEvolBiol

PhD position in evolutionary biology

One PhD position is available at the Department of Evolutionary Biology in Uppsala, under the supervision of Dr. Anders Götherström. The overall profile of the group is analysis of the spread of agriculture, anthropogenic control over domesticates, human demography, and how these events have shaped present day genetic patterns in humans and animals living close to humans.

There are several possibilities for research projects and the precise line of research will be discussed and decided together with the successful applicant, depending on his/her background and interest. Together with colleagues in Madrid, Burgos, and London, our group is exploring the early stages of cattle domestication, and the effect of historic cattle breeding. Together with colleagues in Linköping, we make intense investigation of modern contamination and the problem it causes for ancient DNA work on human remains. The studies aim to finding suitable methods for retrieving authentic ancient human DNA. Finally, in collaboration with colleagues in Copenhagen, Penn State, and in Berkeley, we are investigating benefits with new sequencing technologies in ancient DNA typing. The coming years will therefore be devoted to integrating these different branches, studying human controlled animals and humans with ancient DNA typed with new technologies.

Swedish PhD positions are for 4 years and are paid throughout the studies. The Department of Evolutionary Biology (<http://www.egs.uu.se/evbiol/index.html>) is situated in the Evolutionary Biology Centre in central Uppsala and is equipped with facilities for sequencing, genotyping and expression analysis. 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.

For more information , please contact: Dr Anders Götherström Dept of Evolutionary Biology Evolutionary Biology Centre Anders.Gotherstrom@ebc.uu.se Phone: +46-18-4716483 Fax: +46-18-4716310

The position is open to anyone with a BSc or (preferably) MSc with experience from and interest in one or several of the following areas: bioinformatics including own programming, population genetics, molecular ecology, evolutionary biology, scientific archaeology, or related subjects. Documented work with DNA from museum specimen's or ancient remains will be considered a merit.

Interested parties should send a statement of interest, and a detailed CV including contact information for two references to Anders Götherström, Dept. Evolution, Genomics, and Systematics, Evolutionary Biology, Uppsala University, 752 36 UPPSALA, Sweden; fax +46-(0)18-471 6310 no later than the December 14, 2007. An application by fax or e-mail must be followed by a letter containing the original documents, at the latest a week after application deadline.

Anders Götherström <anders.gotherstrom@ebc.uu.se>

UppsalaU PlantEvolution

Two PhD student positions in Plant Ecology at the Evolutionary Biology Centre, Uppsala University

Two PhD student positions in Plant Ecology are available at the Department of Ecology and Evolution, Evolutionary Biology Centre, Uppsala University in the projects described below. The successful candidates will settle the exact profiles of their PhD projects together with their supervisors.

1. Land use, genetic differentiation and viability of plant populations

A central goal of conservation biology is to maintain species diversity, but also genetic diversity within and among populations. Genetic differentiation in morphology and life history characters has been documented among local populations of a large number of plant species, but in most cases it is not clear to what extent such differentiation is adaptive, and what selective factors maintain adaptive differentiation.

In this project, we will examine factors maintaining genetic variation in morphology and life history, and how genetic composition influences the long-term viability

of populations of the morphologically variable perennial herb *Primula farinosa*. We will use a combination of field experiments, genetic analyses, and demographic studies to explore the effects of abiotic conditions and land use on intensity of biotic interactions, selection regime, and population differentiation in plant morphology and life history. The results will be of fundamental interest for an understanding of processes maintaining adaptive differentiation in natural populations. The main part of the fieldwork will be conducted on the island of Öland. The Ph.D. student will join a research team, which also includes Prof. Johan Ehrlén and a new Ph.D. student at Stockholm University.

The successful candidate should have a keen interest in population biology, and ideally experience from previous work in population ecology or population genetics.

Contact person: Prof. Jon Ågren, phone +46 18 471 2860, jon.agren@ebc.uu.se

Reference number UFV-PA 2007-2180

2. Self-incompatibility and plant reproductive success

Reproduction is the ultimate goal of the organism and the trait on which selection ultimately acts. Crucial to reproduction in outbreeding species is not only to have other members of the species available but also that these are possible as partners (a group of only females cannot reproduce). The perennial herb *Arabidopsis lyrata*, is incapable of self fertilisation (self-incompatible) and thus dependent on other members of the species for reproduction. The self-incompatibility is determined by a gene complex and individuals that share S genotypes are incompatible with each other. This gives a plant with a rare S-genotype more potential partners and a reproductive advantage to plants with common genotypes. This frequency-dependent selection leads to a high genetic diversity at the S locus and old alleles shared across species boundaries. Within the project different aspects of self-incompatibility and reproductive success, in particular male reproductive success, will be studied. Possible questions to address include: How will a plant's reproductive success depend on its S genotype? How are S alleles distributed within and between populations? What is the dynamics of S alleles over time? *A. lyrata* offers good opportunities for molecular genetic studies and grows naturally in Sweden along the High Coast. The project will include both field studies and molecular genetic laboratory work.

The successful candidate should have a keen interest in population biology, and ideally previous experience in population ecology and population genetics.

Contact person: Jenny Hagenblad, ph: +46 18-471 2863, email: Jenny.Hagenblad@ebc.uu.se, [http://](http://www.vaxtbio.uu.se/resfold/hagenblad.htm)

www.vaxtbio.uu.se/resfold/hagenblad.htm Reference number UFV-PA 2007-2181

The applications should include a brief description of undergraduate training, research interests and research experience, and a motivation of why the position is of interest. It should further include Curriculum vitae, an authorized copy of the undergraduate degree, and the names and contact information (address, email address, and phone number) of two-tree reference persons. Relevant publications (including BSc/MSc thesis) should be enclosed. Candidates who apply for more than one of the above positions should indicate their order of priority.

Successful candidates for these positions should have a masters or honors thesis in ecology, population genetics or a related field. Proficiency in English is a requirement.

The candidate will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (see http://www.ebc.uu.se/-index_eng.htm). The postgraduate training comprises four years of full time studies. The successful candidate will receive a

— / —

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>

UppsalaU SpruceAdaptation

Uppsala University hereby declares the following position to be open for application:

PhD student position

at the Department of Evolutionary Functional Genomics

One PhD position is available at the Department of Evolutionary Functional Genomics at Uppsala University starting spring 2008. The department is part of the Evolutionary Biology Centre, EBC. A major focus of the department is the genetic basis of plant adaptation, combining information on gene function from model organisms with studies of variation in adaptive traits in different species. The aim is to identify genes that affect variation in traits such as flowering time and growth rhythm. Our strategy is to integrate traditional

ecological and phylogeographic studies with genomics and population genetics, at both theoretical and experimental levels. For more information: < <http://www.genetik.uu.se/> ><http://www.genetik.uu.se/>

The successful applicant will take part in a project on evolutionary and functional genomics of adaptive traits in Norway spruce (*Picea abies*). The timing of budset in Norway spruce is a trait with high adaptive value and is also important for tree breeding. Quantitative genetic studies have revealed a strong clinal variation for this trait and a large part of the variation is under genetic control. The aim of the present project is to identify the genes that control the adaptive clinal variation for this trait.

Our general strategy is to combine functional studies of already identified candidate genes in Norway spruce and model species with association mapping experiments on the same genes in Norway spruce. Methods include analysis of DNA sequence variation, SNP genotyping and QTL and association mapping, gene expression studies and transformation of Norway spruce and *Arabidopsis*. The current project will mainly focus on association mapping and evolutionary analysis of candidate genes. The work will be conducted within a research group of currently 5 persons with both national (SLU) and international (Canada, Italy) cooperation. The student will be part of a large newly funded European project.

We are looking for an applicant with a strong interest in population and evolutionary genetics. A Bachelor of Science or equivalent in molecular biology, genomics, genetics, or a related subject is required and experience in molecular genetics (for example DNA sequencing, QTL mapping), bioinformatics and statistics is an advantage.

The application should include curriculum vitae, degree certificate, references, a short description of the applicant and his / her experience.

For further information contact: Martin Lascoux, +46 18- 471 64 16, Martin.Lascoux@ebc.uu.se, Niclas Gyllenstrand, +46 18-471 64 13 Niclas.Gyllenstrand@ebc.uu.se, Ulf Lagercrantz, +46 18-471 64 18, Ulf.Lagercrantz@ebc.uu.se Union representatives are Anders Grundström, SACOR-det, tel +46 18-481 53 80, Carin Söderhäll, TCO/ST, tel +46 18-471 19 96 and Stefan Djurström, SEKO, tel +46 18-471 33 15.

Send your application to: Registrar, UFV-PA 2007/2687, Uppsala University, Box 256, 751 05 Uppsala or fax +46 18-471 2000 no later than December 15 2007. If the application is sent by fax the original

papers should be sent to the Registrar within a week of the deadline.

Martin Lascoux Program in Evolutionary Functional Genomics Evolutionary Biology Centre Uppsala University Norbyvägen 18D 752 36 UPPSALA SWEDEN Tel: 46 18 471 64 16 Fax: 46 18 471 64 24

Martin Lascoux <Martin.Lascoux@ebc.uu.se>

USheffield DrosophilaEvolGenetics

Evolutionary Genetics of Sexual Behaviour in *Drosophila Montana*

A research position is available within the Molecular Ecology Laboratory, Department of Animal and Plant Science, The University of Sheffield, working on the above project. This is a collaboration between the Universities of St Andrews, Sheffield and Jyväskylä, Finland. The aim of the project is to collect flies from replicate natural populations, rear pedigrees in the laboratory and use quantitative trait locus techniques to examine the inheritance of behaviours involved in sexual selection and speciation. Genetic markers to be used will include candidate genes and other markers and one aim of the project is to assess the consistency of QTL positions for complex traits in different populations. Results will be compared with related studies of this and other species of *Drosophila*. This position is funded by an NERC award to Mike Ritchie (St Andrews) and Roger Butlin & Jon Slate (Sheffield). The post is full time for 12 months and is suitable for a graduate (or equivalent) with experience of molecular genetic approaches in evolutionary biology. The start date is flexible but will be after 7 January 2008.

For further details contact:

Roger Butlin Professor of Evolutionary Biology
Department of Animal and Plant Sciences The University of Sheffield Western Bank Sheffield S10 2TN

r.k.butlin@sheffield.ac.uk

Tel. +44 (0)114 2220097 FAX +44 (0)114 2220002

r.k.butlin@sheffield.ac.uk r.k.butlin@sheffield.ac.uk

UWisconsinMadison PlantInsect

Graduate Research Assistantship Plant-Insect Interactions and Biofuel Production University of Wisconsin, Madison

A Graduate Research Assistantship (M.S. - Ph.D. or Ph.D.) is anticipated for 2008 (summer/fall) to pursue research at the interface of plant-insect interactions, evolutionary ecology, and sustainable biofuel production. This research will evaluate how genetic modifications of poplar - to enhance its potential as a biofuel feedstock - alter its susceptibility to attack by insects, and changes in costs/benefits of evolutionary adaptations for plant defense. The work will be conducted in collaboration with tree geneticists, and will focus on how specific modifications (tree architecture and chemistry) influence plant defense syndromes as well as insect damage rates and community structure. The University of Wisconsin - Madison is the lead institution of the DOE-funded Great Lakes Bioenergy Research Center.

Candidates may elect to pursue graduate degrees in either Entomology or Zoology (Ecology).

For more information about the Lindroth research group, visit: <http://entomology.wisc.edu/~lindroth/>

Qualifications:

Highly motivated individuals with superior academic credentials and strong communication skills are encouraged to apply. Well-developed interpersonal skills are essential. Candidates must be able to work independently as well as part of a collaborative research team.

Stipend/benefits:

50% Research Assistantships currently provide a stipend of \$19,032 (12 mo.), tuition waiver, and excellent medical health plans.

Position available beginning in summer or fall of 2008.

Inquiries: Send preliminary e-mail letter of inquiry, describing research interests and academic qualifications, to:

Dr. Rick Lindroth (Lindroth@entomology.wisc.edu)
Dept. of Entomology 237 Russell Labs 1630 Linden Drive University of Wisconsin Madison, WI 53706

Rick Lindroth <lindroth@entomology.wisc.edu>

VanderbiltU EvolutionaryDiversification

GRADUATE STUDIES IN ECOLOGY AND EVOLUTION AT VANDERBILT

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, reproductive isolation, speciation, phylogenetic radiation) and several fundamental ecological and evolutionary processes (adaptation, ecological specialization, symbiosis, social interactions).

Online application to the graduate program is free.

Our group occupies a modern (2002) building complete with our own DNA sequencing 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 and are trained in a highly interactive scientific community.

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

PATRICK ABBOT (patrick.abbot@vanderbilt.edu) $\ddot{u}_l \frac{1}{2}$ social evolution, symbioses, molecular evolutionary genetics in insects and microbes

DAN FUNK (daniel.j.funk@vanderbilt.edu) $\ddot{u}_l \frac{1}{2}$ ecological specialization and speciation, phylogenetics, herbivorous insect biology

DAVE McCAULEY (david.e.mccauley@vanderbilt.edu) $\ddot{u}_l \frac{1}{2}$ population biology, population structure, local adaptation in plants and insects

ANTONIS ROKAS (antonis.rokas@vanderbilt.edu) $\ddot{u}_l \frac{1}{2}$ phylogenetics, molecular evolution, comparative genomics, origins of multicellularity, evolution of genetic

pathways in fungi

Additionally, we are presently conducting a faculty search for an evolutionary ecologist.

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.

Antonis Rokas Department of Biological Sciences Vanderbilt University VU Station B 351634, Nashville, TN 37235 Email: antonis.rokas@Vanderbilt.Edu Tel: +1-615-936-3892 Fax: +1-615-343-6707 <http://people.vanderbilt.edu/~antonis.rokas/> –

antonis.rokas@vanderbilt.edu

VictoriaU PlantMolSyst

Te Papa MSc Scholarship in Plant Molecular Systematics at Victoria University

The Museum of New Zealand Te Papa Tongarewa and Victoria University of Wellington are offering a Master of Science (MSc) scholarship in the field of plant molecular systematics at Victoria University. The purpose of the award is to promote research between Te Papa and Victoria University in the area of plant molecular systematics, ecology and evolution.

An MSc degree at Victoria University is undertaken over two years (Parts 1 and 2) and involves four courses worth equal marks, plus a research thesis worth 60% of the total. The Te Papa-VUW scholarship provides the successful applicant with a student stipend of \$4000 in part 1 (2008) and \$6000 in part 2 (2009). The project offered in 2008-2009 will be a molecular systematic investigation of a New Zealand group of mosses, ferns, or flowering plants. The thesis research will involve the DNA sequencing of chloroplast and nuclear genes, and will address phylogenetic questions such as the relationships between species and generic boundaries, as well as issues of biogeography and species delimitation. The ideal applicant will have completed a BSc degree and have an interest in New Zealand plants and molecular phylogenetic techniques.

For more information about the thesis project or studying towards an MSc degree at Victoria University contact: Dr Heidi Meudt (e-mail: heidim@tepapa.govt.nz), Dr Leon Perrie (email: leonp@tepapa.govt.nz) or Dr

Peter Ritchie (e-mail: Peter.Ritchie@vuw.ac.nz).

For information about the School of Biological Sciences and a copy of the post-graduate prospectus visit <http://www.vuw.ac.nz/sbs> Applications are lodged through the Scholarships Office, Victoria University of Wellington, PO Box 600, Wellington, New Zealand. E-mail: Scholarships-Office@vuw.ac.nz Tel +64-4-463 5113/5557 Visit the web site for an application form and instructions: <http://www.fis.org.nz/-BreakOut/vuw/schols.phtml?detail+600535> <http://www.victoria.ac.nz/scholarships>

Applications close on 14 December 2007

Selection will be based on academic merit and short listed applicants may be required to participate in a telephone interview.

Visit the Te Papa website <http://www.tepapa.govt.nz> Heidi Meudt <HeidiM@tepapa.govt.nz>

Vienna SexualSelection

Phd-student position on sexually selected infanticide in brown bears

A 3-year position is open at the Institute for Wildlife Biology and Game Management (IWJ), Department of Integrative Biology and Biodiversity Research, at the University of Natural Resources and Applied Life Sciences, Vienna (BOKU). The successful applicant will study the role of sexually selected infanticide in a non-social carnivore, the brown bear within a project funded by the Austrian Science Fund (FWF). This project is administrated and carried out by IWJ in cooperation with the Scandinavian Brown Bear Research Project (SBBRP), which is located at the Norwegian University of Life Sciences (UMB). The successful applicant will study infanticide and its evolution in a non-social species in the wild and the impact human harvest has on this behavior. Behavior of and interactions between individual brown bears will be studied with GPS radio-collar technology. Access to the long-term, individual based data base of the SBBRP, including data on over 500 captured and marked bears and over 1000 hunter-killed bears, will be provided. Genetic data, including pedigrees, are also available. The successful candidate will work with three advisors; Dr. Andreas Zedrosser (BOKU, UMB), Prof. Klaus Hackländer (BOKU), Prof. Jon Swenson (UMB).

A Master's degree is required from a university or sci-

entific college. The study will include extensive periods of field work; a driver's license is required. In addition, a good understanding of evolutionary biology, behavioral ecology and statistical data analysis are needed. Applicants with documented knowledge in these fields will be prioritized. Applicants must be able to work both independently and as a part of an international team of PhD-students and scientists working on various aspects of the behavioral ecology and life history of Brown bears in Scandinavia.

The goal is the successful completion of a PhD-degree. The successful applicant is required to enter an approved PhD-program, and the work must be planned in order to complete the requirements of the PhD-degree during the course of the 3-year period. The PhD will be carried out within a Cotutelle framework as a coop-

erative degree between BOKU and UMB. This will require the successful candidate to spend periods of time in Austria and Norway. Wages are according to the pay scale of FWF (<http://www.fwf.ac.at/de/projects/-personalkostensaetze.2007.html>).

Applicants should send an electronic application, incl. CV and grades from courses taken and, if available, a list of publications and copies of these, to andreas.zedrosser@boku.ac.at The application deadline is December 7, 2007. Interviews will take place in the 4th week of January, 2008. The start of this study is projected to be March 2008. More information can be obtained from Dr. A. Zedrosser at above address.

Andreas Zedrosser

Andreas Zedrosser <andreas.zedrosser@umb.no>

Jobs

AberdeenU MoleculaEvolution	40	UCaliforniaSanDiego InvertebrateEvolution	53
CapeTown ConservationGenetics	40	UCambridge 2 PlantEvol	53
CaseWesternReserveU EvolutionaryEcol	41	UChicago SystemsBiol	54
ChicagoBotanicGarden Conservation	41	UCLouvain PopulationBiology	54
CollegeCharleston EvolPhysiologicalProcesses	42	UColorado ComputationalBiol	55
HarvardU HumanEvolGenetics	42	UCopenhagen ResFellowship AntEvol	55
HarvardU PlantBiodiversity	43	UFlorida Phylogenomics	55
MaxPlanck ExperimentalEvolution	43	UGeorgia ResTech DrosophilaEvolGenetics	56
MaxPlanck Rostock EvolDemography	44	UGoettingen 3 EvolutionEarlyMetazoans	56
MichiganStateU EvolEcol	44	UGoettingen EarlyLife	57
NorthDakotaStateU EvolutionaryEcol	45	UHouston EvolutionaryMicrobiology	58
Parkville Australia Bioinformatics	45	ULisbon Bioinformatics	58
Phoenix PlantConservationBiol	46	UManitoba Phylogenomics	59
PrincetonU EvolutionaryBiology	46	UMaryland Bioinformatics	60
RutgersU ResTech MosquitoEvolution	46	UMaryland EvolBiol	60
ScrippsInst EvolDevo	47	UMassachusetts 3 EvolBiology	61
Smithsonian SummerResTraining	48	UNewOrleans EvolBiol	62
SouthernUtahU Chair	49	UPennsylvania EvolutionaryGenetics	62
Trondheim PopulationBiology	49	UPennsylvania EvolutionaryGenomics	62
TulaneU 2 EvolBiol	49	UPuertoRico EvolutionaryGenetics	63
UAlaska Curator of Fishes	50	USussex FieldAssist SpainWasps	63
UBern FieldAssist BirdPredation	51	UtahStateU EvolutionaryPhysiology	64
UBern Tech ConservationBiol	51	UVirginia EvolutionaryMicrobiol	64
UBielefeld EvolBiol	51	YorkU EvolutioanryGenetics	65
UCalgary PlantBiol	52		
UCaliforniaBerkeley ExperimentalPopGenet	52		

AberdeenU MolecuLaEvolution

UNIVERSITY OF ABERDEEN
 SCHOOL OF BIOLOGICAL SCIENCES
 RESEARCH ASSISTANT - MOLECULAR ECOLOGY

Applications are invited for a SEERAD-funded research assistant position in molecular ecology within the School of Biological Sciences. You will work on a project examining species composition and genetic structure of *Culicoides* midges, important vector species for diseases such as Bluetongue and African Horse Sickness virus. The data will be used to inform the prediction and management of potential disease outbreak and spread in Scotland.

You must have a first degree in one of the biological sciences. Experience in DNA extraction, PCR and DNA sequence analysis is essential, and experience with microsatellite genotyping shall be an advantage.

This post is available for two years.

The salary for this post will be paid in the range of £23,329 - £25,492 per annum.

Informal enquiries may be made to Dr Stuart Piertney (email s.piertney@abdn.ac.uk) or Professor Jennifer Mordue (email a.j.mordue@abdn.ac.uk).

Online application forms and further particulars are available from www.abdn.ac.uk/jobs. Alternatively telephone (01224) 272727 (24-hour answering service) quoting reference number YBS029R for an application pack.

The closing date for the receipt of applications is Friday 16th November 2007.

Dr Stuart B. Piertney School of Biological Sciences University of Aberdeen Zoology Building Tillydrone Avenue Aberdeen AB24 2TZ United Kingdom

Tel: 01224 272864 (office) Tel: 01224 272892 (Lab)
 Fax: 01224 272396 E-mail: s.piertney@abdn.ac.uk

http://www.abdn.ac.uk/biologicalsci/staff/details.php?id=3Ds.piertney&filt*****

CapeTown ConservationGenetics

South Africa boasts an exceptionally rich biodiversity. SANBI, a public entity operating in nine different centres, is the only institution in the world mandated with the study, conservation and promotion of an entire countrys fauna, flora and their ecosystems. This career opportunity currently is on offer to appropriately qualified and experienced individuals.

Molecular Ecology & Landscape Genetics: Specialist Scientist (Salary Level 10) Kirstenbosch Research Centre, Cape Town, South Africa

SANBI is looking for an independent and productive scientist to join the Molecular Ecology Programme in Cape Town. The incumbent will develop components of a collaborative scientific programme and will focus on the use of DNA markers to understand landscape and population level processes that can inform and strengthen SANBI's programmes in global change biology, threatened species and conservation planning. The successful candidate will be in possession of a PhD in Biology or a similar field. Preference will be given to candidates with at least two years relevant post-PhD experience. Proven experience in landscape/ population/conservation genetics and phylogeography is required, preferably at post-PhD level. Excellent DNA laboratory and analytical skills are prerequisite and experience in supervising students, project development and proposal writing is preferred.

Your strong scientific skills would include the ability to identify and develop new research questions, as well as a record of publication in international peer-reviewed journals.

Responsibilities include: * developing and implementing collaborative research projects for publication in international journals * supervising postgraduate students and postdoctoral fellows * contributing to capacity building and training * deputising for the Head of the Molecular Ecology & Evolution Programme to ensure smooth running of the laboratory facility and research projects. A good spoken and written command of the English language is of the utmost importance, as is the ability to maintain sound interpersonal relations. A valid Code B drivers licence with at least one years practical driving experience is compulsory.

For information on our research, visit: <http://->

www.sanbi.org/research/leshilllab.htm SANBI offers an annual salary of R196,815 (ZAR, South African Rand) plus additional fringe benefits, which include attractive medical and pension schemes.

Please Note: 1) Applications must be accompanied by a letter motivating why the applicant should be favourably considered for the position and confirming that the minimum qualifications are met. 2) The letter must include the candidates research interests and research goals. 3) The names and contact details of two referees who can comment on the candidates technical abilities, must be provided. 4) Applicants must submit three written referee reports (based on a template available from engelbrechtb@sanbi.org as part of their application). 5) A competency test will be conducted as part of the selection process. All applications will be considered with the understanding that, in terms of the SANBI Employment Equity Plan, preference will currently be given to candidates from the designated groups. Applications submitted by employment agencies will not be considered.

SANBI reserves the right not to fill this position. CV and letters may be submitted via e-mail to: recruitmentct@sanbi.org or by fax: +27-(0)21-762- 3229 (with attention to: Glynnis Oosthuizen at Human Resources) Postal applications are to be addressed to the Deputy Director: Human Resources, South African National Biodiversity Institute, Private Bag X7, Claremont 7735, Cape Town, South Africa.

Closing Date: Friday 7 December 2007 at 15:00 (GMT+2) Candidates are expected to be available for selection interviews on a date and time as determined by SANBI. Visit www.sanbi.org for more information on the South African National Biodiversity Institute. If no response has been received within 21 days of the closing date, candidates may assume that their applications were unsuccessful.

Dr. Krystal A. Tolley Molecular Ecology and Evolution Program Conservation Science Directorate South African National Biodiversity Institute P/Bag X7 Claremont 7735 South Africa Tel +27-(0)21-799-8658 Fax +27-(0)21-761-4151 <http://www.sanbi.org/research/leshilllab.htm> Krystal Tolley <Tolley@sanbi.org>

CaseWesternReserveU
EvolutionaryEcol

The Biology Department of Case Western Reserve University seeks to fill a tenure track position in the general area of evolutionary ecology with search open to a wide range of theoretical or experimental approaches. Rank is open but appointments at the Assistant Professor level are preferred. Successful candidates will be expected to lead a strong independent extramurally funded research program as well as develop and teach courses at the undergraduate and graduate level in evolutionary or organismal biology (behavior, physiology, anatomy, or endocrinology). Electronic applications (including a current curriculum vitae, a letter of application, and a description of research and teaching interests) should be submitted to Joseph Koonce, joseph.koonce@case.edu, Chair of the Department of Biology. Candidates should arrange to have three letters of recommendation sent directly to the same email address with hard copies sent to Dr. Joseph Koonce, Department of Biology, Case Western Reserve University, Cleveland, OH 44106-7080. Applications should be received by December 21, 2007 to receive full consideration. In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and World Class Diversity. Case is a recipient of a National Science Foundation ADVANCE Institutional Transformation Grant to increase the participation of women in Science and Engineering.

Robin Snyder Millis 510 Case Western Reserve University office: (216) 368-8838 Department of Biology lab: (216) 368-8842 10900 Euclid Ave. FAX: (216) 368-4672 Cleveland, OH 44106-7080 web: <http://biocluster.cwru.edu/~res29/> "Vocate mathematicos" (Call in the mathematicians!) –Ludus Danielis, a 13th C liturgical play

Robin Snyder <res29@case.edu>

ChicagoBotanicGarden **Conservation**

The Conservation and Land Management Fellowship Program is a partnership between the Chicago Botanic Garden, the Bureau of Land Management, National Parks Service and the USDA Forest Service. Positions are available in the western United States beginning January and June, 2008.

Fellows participate in a one-week training course held in late May in Chicago. Travel and lodging expenses will be covered. Training includes: BLM/NPS/FS ori-

entation; Endangered Species Act and associated programs; plant and animal identification and monitoring; GIS and mapping; and topographical map reading and GPS skills.

Duties may include: plant and wildlife monitoring and mapping; endangered species reintroduction; invasive species management; geographic data acquisition and analysis; biological assessments, sensitive species lists and conservation plans; fire ecology; land use planning; archaeology-related activities; recreation areas management; rangeland assessments; seed collection.

Compensation is \$750.00/pay period (every two weeks)

How to Apply: Send a letter of interest, official school transcript(s), resume and three letters of recommendation as one package by February 15, 2008 (December 15, 2007 for the earlier start date) to:

Cynthia Scott CLM Fellowship Program Chicago Botanic Garden Division of Plant Science and Conservation 1000 Lake Cook Road Glencoe, IL 60022 Ph: 847-835-6917 Fax: 847-835-5484 cscott@chicagobotanic.org

This Fellowship opportunity may also be conducted as a research component of a Masters program with Northwestern University and the Chicago Botanic Garden. For application information, visit: <http://www.plantbiology.northwestern.edu> < <http://www.plantbiology.northwestern.edu/> >

For more information visit the website: <http://www.chicagobotanic.org/research/conservation/blm/-index.html>

nzerega@chicagobotanic.org

CollegeCharleston EvolPhysiologicalProcesses

NOTE: We are searching for a physiologist who is interested in teaching human anatomy and physiology. The research focus is wide open and could easily include comparative physiology or evolution of physiological processes at the population or landscape level. Please email Allan Strand (strand@cofc.edu) with any questions you may have.

Vertebrate Physiologist

The Department of Biology, College of Charleston, invites applications for a tenure-track position at the As-

stant Professor level to begin August, 2008. Candidates must possess a Ph.D. in the biological sciences, a strong commitment to teaching, and an active research program with the potential for undergraduate involvement. Teaching assignments will include laboratories and lectures in sophomore-level Human Physiology and Anatomy. The candidate will be expected to provide pedagogical innovation in both of these courses and also coordinate lab sections taught by graduate teaching assistants. The College of Charleston is a public liberal arts and sciences institution of 10,000 undergraduate and 2000 graduate students. The College's primary goals are teaching and research excellence. In addition to its undergraduate programs, the department offers M.S. degrees in Marine Biology and Environmental Studies. Information about the Biology Department is available at <http://www.cofc.edu/~biology/>. Applicants should submit a curriculum vitae, statement of teaching and research interests, copies of relevant publications, and three letters of reference by November 30, 2007 to: Dr. Allan Strand, Department of Biology, Vertebrate Physiologist Search Committee, College of Charleston, Charleston, SC 29424. The College of Charleston is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

- Allan Strand, Interim Chair, Department of Biology College of Charleston Ph. (843) 953-5504 Charleston, SC 29424 Fax (843) 953-5453

Allan Strand <strand@cofc.edu>

HarvardU HumanEvolGenetics

Job:

Human Evolutionary Genetics and Genomics/Harvard

The Biological Anthropology Program at Harvard University, in cooperation with the Department of Organismic and Evolutionary Biology, is seeking to make a full-time appointment at the junior tenure-track or tenured full professor level in the field of human evolutionary genetics and genomics. The candidate's research need not focus solely on humans but can have a broader phylogenetic perspective including model organisms. We seek candidates with exceptional promise as scholars and teachers to offer courses at the undergraduate and graduate levels and to complement the current strengths of Human Evolutionary Biology, Biological Anthropology, and Organismic and Evolutionary Biology programs.

The successful candidate may also be affiliated with the Broad Institute of MIT and Harvard.

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, 2008. For the assistant professor position, the Ph.D. must be in hand before the beginning of the fall semester, 2008. Interested candidates should submit an application including statement of research and teaching interests, curriculum vita, teaching evaluations if available, and at least three letters of reference with the referees' full contact information including email addresses by January 15, 2008 to: Prof. Maryellen Ruvolo, Human Evolutionary Genetics and Genomics Search Committee, Department of Anthropology, 11 Divinity Avenue, Peabody Museum, Harvard University, Cambridge, MA 02138 USA, or by email to mcountey@fas.harvard.edu, specifying "human evolutionary genetics" in the subject line.

– Maryellen Ruvolo

Professor of Biological Anthropology Laboratory of Molecular Evolution Harvard University 11 Divinity Avenue Cambridge, MA 02138

Office: 617-495-3576 Lab: 617-495-8323

ruvolo@fas.harvard.edu ruvolo@fas.harvard.edu

HarvardU PlantBiodiversity

PLANT EVOLUTION & BIODIVERSITY

Harvard University

Department of Organismic and Evolutionary Biology

The Department of Organismic and Evolutionary Biology at Harvard University invites applications for a tenure-track faculty position in plant evolution and diversity. We seek to appoint an individual who uses phylogenetic approaches to address fundamental questions regarding the origin and maintenance of diversity in plant lineages and/or communities. Researchers focused on non-core eudicot lineages such as monocots, gymnosperms, non-seed land plants and algae are especially encouraged to apply. Applicants will be expected to develop an innovative research program and contribute to teaching at the undergraduate and graduate levels. Applications from, or information about, female and minority candidates are encouraged. This

search is part of a broader initiative to develop comprehensive research programs in plant biology and evolution at Harvard University. The department has strong linkages to a number of allied institutions, including the Harvard Forest, Arnold Arboretum, Harvard University Herbaria and Harvard Centre for the Environment.

Applicants should submit the following application materials online to <http://www.lsddiv.harvard.edu/oeb/-facultysearch/peb> : a curriculum vitae, statements of research and teaching interests, 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 Elena M. Kramer, Professor of Biology c/o Katie Parodi, kparodi@oeb.harvard.edu. Review of applications will begin on December 1st, 2007.

Further information about OEB is available at www.oeb.harvard.edu; information about the ongoing Plant Biology Initiative at Harvard can be found at www.pbi.fas.harvard.edu.

Harvard University is an Affirmative Action/Equal Opportunity Employer.

–

Elena M. Kramer Professor of Biology Dept. of Organismic and Evolutionary Biology Harvard University 16 Divinity Ave Biolabs 1109 Cambridge MA 02138 (Office) 617-496-3460 (Lab) 617-384-7820 (Fax) 617-496-5854 ekramer@oeb.harvard.edu

MaxPlanck ExperimentalEvolution

The Max Planck Institute for Evolutionary Biology invites applications for an

Independent Junior Research Group

in the field of

“Experimental Evolution”

The Institute is located in Plön in Northern Germany, close to Kiel and Lübeck. It has recently changed its focus from Limnology to Evolutionary Biology, including a restructuring and major new investments. It has currently two Departments, one for evolutionary Ecology (head Manfred Milinski) and one for evolutionary Genetics (head Diethard Tautz). A third Department on evolutionary Theorie will shortly be filled. We are seeking a candidate who can start an independent research program in experimental evolution either on microbial

systems, or suitable other systems.

The position includes:

The group leader position (W2; approximately equivalent to associate professor without tenure) for 5 years with a possible start-up phase of up to six months (a contract extension by two times two years can be granted after successful evaluation).

In addition, there is one postdoc position, one PhD scholarship, a technical assistant position and a competitive startup package for instrumentation, as well as the necessary laboratory and office space and an adequate budget for running costs.

The successful candidate has no formal teaching obligations, but will be asked to contribute to the planned graduate school program. In addition, an affiliation with our partner university (Christian Albrechts Universität Kiel) is possible.

See <http://www.snwg.mpg.de/> for details of the application procedure via the internet until Dezember 14, 2007. Note that the position is part of a pool of positions in the MPG that are advertised in parallel, but this particular position is specifically for the MPI for Evolutionary Biology.

The institute is located in a beautiful landscape area (a traditional holiday region). The town (Plön) has an excellent infrastructure, including a high class cultural program during the summer months in the town and its surroundings. The neighbouring cities (Kiel and Lübeck) are about 30-40 min away, one of the top cities of Germany (Hamburg) is 80 min away (by car or train). I mention this, since a first look at the map might convey the feeling that we are located at a remote place. However, everybody who has looked closer at this, found that the living conditions are excellent and provide an ideal setting for productive research.

You can find further information on our institute on the website: <http://www.mpil-ploen.mpg.de/>. Please note that this site is provisional and will soon be updated to the new standards to be provided by the MPG.

Prof. Dr. Diethard Tautz Max-Planck-Institut fuer Evolutionsbiologie Abteilung Evolutionsgenetik August-Thienemannstrasse 2 24306 Ploen (Germany) Tel.: 04522 763 390 tautz@mpil-ploen.mpg.de tautz@mpil-ploen.mpg.de

MaxPlanck Rostock EvolDemography

Dear Brian,

Please could you post the following web-link on evoldir: <http://www.demogr.mpg.de/go/evodemojobs> We are recruiting in 'Theoretical Evolutionary Demography across the Tree of Life'.

Thankyou very much, Best wishes, David

Dr. David L. Thomson Max Planck Institute for Demographic Research Konrad-Zuse Str. 1 D-18057 ROSTOCK Germany

Tel. +49 (0)381 2081 229 Fax. +49 (0)381 2081 529 E-mail: thomson@demogr.mpg.de Website: www.demogr.mpg.de "Thomson, David" <Thomson@demogr.mpg.de>

MichiganStateU EvolEcol

EVOLUTIONARY ECOLOGIST

The Department of Zoology at Michigan State University invites applications for an academic year (AY), tenure-track position at the Assistant Professor level. We seek an individual with excellent quantitative skills to address cutting-edge questions about the evolutionary ecology of animals using field, experimental, and/or theoretical approaches.

The successful candidate will contribute to undergraduate and graduate teaching and research training, participate in MSUs interdepartmental graduate program in Ecology, Evolutionary Biology, and Behavior (<http://www.msu.edu/~eebb>), and maintain a successful, externally funded research program. Information about the Department of Zoology can be found at <http://www.zoology.msu.edu/>. Applicants should have a PhD; postdoctoral experience is desirable. Application via email is preferred; materials should be sent to zoology@msu.edu. We would prefer to receive the cover letter, curriculum vitae, a summary of research accomplishments and future objectives, and a description of teaching philosophy and goals as a single PDF

file. Up to three reprints or preprints may be submitted. Please have three letters of reference sent via email, with signed paper copies sent in parallel to The Evolutionary Ecology Search Committee, Department of Zoology, Michigan State University, Natural Science Building, East Lansing, MI, 48824-1115. The review of applications will begin December 17, 2007 and will continue until a suitable candidate is identified. Questions regarding this position may be sent to Tom Getty (getty@msu.edu), Chair of the Search Committee.

MSU is an Affirmative Action, Equal Opportunity Employer, committed to achieving excellence through cultural diversity. The University actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

Debra Mills <millsd@msu.edu>

NorthDakotaStateU EvolutionaryEcol

The Department of Biological Sciences at North Dakota State University has a 9-month, tenure-track faculty position in evolutionary ecology at the rank of Assistant/Associate Professor, available fall 2008 (August 16, 2008). The position is 45% teaching, 45% research, and 10% service. The successful candidate must develop an externally-funded dynamic research program that complements existing departmental research interests. Teaching/advising duties include Wildlife Ecology & Management and other courses in the areas of evolutionary and behavioral ecology at the undergraduate and graduate levels, advisement of undergraduate, and supervision of M.S. and Ph.D. Appointment at the Associate Professor level is possible for candidates who have an externally supported research program, a substantial publication record, and significant teaching experience. A competitive start-up package will be provided.

http://www.ndsu.edu/ndsu/jobs/non_broadbanded/positions/00020740.shtml Steve Travers
<Steven.Travers@ndsu.edu>

Parkville Australia Bioinformatics

WEHI Employment Opportunity

Employment Opportunities - Bioinformatics Division

Wednesday, November 21st 2007

The Bioinformatics Division (<http://-bioinf.wehi.edu.au>) is one of Australias leading bioinformatics research groups. The division is supported by significant research grant funding and works at the cutting edge of bioinformatics research and data analysis in areas such as statistical genetics (headed by Dr Melanie Bahlo), microarrays (headed by Dr Gordon Smyth) and comparative and functional genomics (Professor Terry Speed, Division Head).

An opportunity exists to join our research team to develop new computational methodology and algorithms motivated by the biological data generated from high throughput technologies such as SNP chips, DNA sequencing, gene expression microarrays and ChIP-Chip experiments. These analyses investigate fundamental biological processes and help to discover gene function, leading to new medical treatments.

The successful applicants will have a PhD or Honours degree in one of the following areas: statistics, mathematics, computing or biology. Some experience in programming and a keen interest in biology are also required. Strong interpersonal skills are essential. Applicants are expected to communicate frequently with biological collaborators and must be highly motivated by biological problems.

Two positions are currently available, with appointment level and salary dependent on qualifications and previous experience. Up to 17% superannuation and very attractive salary packaging options are available. These positions are available for two years in the first instance. Overseas applicants are very welcome to apply.

Enquiries on the positions can be directed to Dr Melanie Bahlo (bahlo@wehi.edu.au).

Written applications including CV and the names of 3 professional referees should be forwarded to:

Human Resources Manager The Walter and Eliza Hall Institute of Medical Research 1G Royal Parade Parkville Victoria 3050

Alternatively, email your application to jobapplications@wehi.edu.au

Closing Date: Friday 14th December 2007

Melanie Bahlo Ph.D. NHMRC R. D. Wright Fellow Bioinformatics Division The Walter and Eliza Hall Institute of Medical Research 1G Royal Pde Parkville 3050 VIC Australia

bahlo@wehi.edu.au Phone: +613 9345 2630 Fax: +613 9347 0852 <http://bioinf.wehi.edu.au/> Melanie Bahlo <bahlo@wehi.EDU.AU>

Phoenix PlantConservationBiol

Plant Conservation Biologist

Desert Botanical Garden, Phoenix, Arizona

The Desert Botanical Garden <<http://www.dbg.org/>>, Phoenix, Arizona, one of the world's major botanical gardens specializing in desert plants, is seeking a full-time Plant Conservation Biologist. The successful applicant will include molecular genetic approaches in research on conservation biology of plants in arid regions. Responsibilities include conducting original research, seeking extramural funding, and cooperating with other departments in the development of exhibits and educational programs. Ph.D. required. Send C.V., a 1-page description of research approaches and goals, and names and contact information of three references to Ms. Mary Catellier, Director of Human Resources, Desert Botanical Garden, 1201 N. Galvin Pkwy., Phoenix, AZ 85008. Review of applications will begin January 15, 2008 and applications will be accepted until position is filled. An Equal Opportunity Employer.

Andrew Salywon Assistant Curator DES Herbarium
Desert Botanical Garden 1201 N. Galvin Parkway
Phoenix, AZ 85008-3437 480-481-8107

<http://www.dbg.org/> asalywon@dbg.org

PrincetonU EvolutionaryBiology

PRINCETON UNIVERSITY: ASSISTANT PROFESSORSHIPS

INTEGRATIVE ECOLOGY, EVOLUTION AND/OR BEHAVIOR

Princeton University's Department of Ecology and Evolutionary Biology plans to hire several individuals at the level of tenure-track Assistant Professor. We have broad interests in ecology, evolution, behavior, functional biology, conservation biology, and biogeochem-

istry. Some of these appointments may be shared with the Genomics or Neuroscience Institutes. We seek applicants who pursue research that aims for significant conceptual and/or empirical integration across traditional disciplinary boundaries and who have a strong commitment to teaching. Applicants should write a vision statement, no longer than 2 pages, that outlines one or more major unsolved problems in their field and how they plan to address them. The vision statement should not include only a précis of the applicant's prior and current research. Applications, including the vision statement, a curriculum vitae, and three reprints can be submitted online via <http://jobs.princeton.edu> or by mail to Dr. David Stern, Search Committee Chair, Department of Ecology & Evolutionary Biology, Guyot Hall, Princeton University, Princeton, NJ 08544-1003. Three letters of recommendation should be mailed to Dr. Stern. Screening of applications will begin 7 January 2008. Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations. For information about applying to Princeton and how to self-identify, please link to <http://web.princeton.edu/sites/dof/ApplicantsInfo.htm>. We strongly recommend, however, that all interested candidates use the online application process.

dstern@Princeton.EDU dstern@Princeton.EDU

RutgersU ResTech MosquitoEvolution

See below the full announcement. I am especially looking for recent graduates that would like to increase their skills list, as well as get a taste of working in a research lab, before applying to grad school. I commonly publish with my techs and they are often first authors. We have weekly journal clubs and lab meetings. My research emphasizes the consequences of recent introductions of disease vectors (mostly mosquitoes). We examine the population genetics of the expansion, changes in genetic makeup, phenotypic changes and adaptations (in the vectors and in the interaction between vector and parasites), as well as genetic and phenotypic consequences of hybridizations (between multiple introductions and between introduced and local species). Please see my website at <http://vectorbio.rutgers.edu/> for a bit more info (even if outdated...)

RESEARCH TECHNICIAN Medical Entomology

Applications are invited for a Research Assistant to perform DNA based evolutionary and ecological research in the laboratory of Dr. Dina M. Fonseca at the Center for Vector Biology, Rutgers University. This is a full-time contractual position, renewable on an annual basis, with competitive salary and benefits.

Closing Date: Screening of applications will begin immediately and the position will remain open until filled.

Department: Entomology

Salary Information: Salary commensurate with qualifications and experience, \$27,500 to \$40,000 with additional pay for health insurance; salary enefits; contractual non-tenure, full-time (paid overtime); reviewed and renewable on annual basis.

Duties: Faculty Research Assistant will support several collaborative projects in basic and applied molecular medical entomology, ecology, and evolution. Specifically he/she will conduct laboratory, insectary, and field experiments; perform inventory and order material/supplies in a molecular biology laboratory; maintain mosquito colonies; enter data and manage databases on a regular basis; maintain laboratory and insectary in working order; assist graduate students and other personnel with research; and oversee undergraduate student workers in these tasks.

Qualifications: A strong science background and B.S./B.A. degree in molecular biology, medical entomology, evolutionary biology, ecology, entomology, agronomy, or related discipline is preferred. Candidate must demonstrate: coursework and hands-on experience in ecology and evolutionary biology; capacity and interest in learning new concepts and techniques, including DNA based techniques to study populations and life-histories; skill in both verbal and written communication in English; computer literacy and skill in managing, analyzing and evaluating data; ability to multi-task and work both independently with minimal supervision and cooperatively with others.

To Apply: Send CV, statement of relevant research experience and interests, and contact information for 3 references as a single file (MS Word or PDF) to: dinafons@rci.rutgers.edu or by mail to Dr. Dina M. Fonseca, Center for Vector Biology, Rutgers University, 180 Jones Av. New Brusnwick, NJ 08901. Screening of applications will begin immediately and position will remain open until filled.

Rutgers University, the State University of New Jersey, is an equal opportunity/affirmative action employer. Women and minorities are especially encouraged to apply.

– Dina M. Fonseca, PhD Associate Professor

Center for Vector Biology Rutgers University 180 Jones Avenue New Brunswick, NJ 08901 Phone:(732) 932 3146 Fax: (732) 932 9257 email: dinafons@rci.rutgers.edu

“Dina M. Fonseca” <dinafons@rci.rutgers.edu>

ScrippsInst EvolDevo

Hi Brian – Could you post this to the evoldir? Candidates in evo-devo and molecular ecology are encouraged to apply! Thanks, Ron

The Scripps Institution of Oceanography at the University of California in San Diego invites applications at the Assistant Professor (tenure-track) level in the fields listed below. We seek motivated, broad-thinking scientist-educators to establish vigorous research programs and provide intellectual leadership in their fields while complementing existing expertise at Scripps, other UCSD departments, and nearby research institutions.

1) Marine Ecology

We seek a candidate for a position in marine ecology/population biology, with particular interest in the application of rigorous quantitative approaches to understanding the structure and dynamics of ocean ecosystems and their role in biogeochemical cycles. Potential research areas include (but are not limited to): benthic ecology (especially of continental shelf and slope environments), benthic microbial ecology, and molecular ecology.

2) Cell and Developmental Biology of Marine Organisms

We seek a candidate in the field of cell and developmental biology. Potential research areas include (but are not limited to): fertilization mechanisms, cell-cell interactions, stem cell biology, evolution and development, mechanisms of development and life history strategies, larval physiology, biochemical and genetic adaptations to marine environments, and cell and molecular aspects of marine toxicology.

Successful candidates will be expected to teach classes and supervise research at both the graduate and undergraduate level. The positions require a PhD degree and a competitive record of publication, as well as evidence of the ability to conduct and fund an active research

program consistent with the opportunity to have done so at this career level.

Review of applications will begin on November 15, 2007, and will continue until positions are filled. Applicants should send a letter including descriptions of their teaching experience, research interests, a list of publications, immigration status, the position(s) for which they are applying and the names of at least three potential referees, along with their complete institution address, phone and fax numbers to: Chair Search Committees, Department of the Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Dr., La Jolla, CA 92093-0208 USA. Applicants should clearly indicate for which position(s) they are applying using the areas of interest as stated below. Questions about submission of applications may be addressed to Cristy Whitehead at 858 534-3205, (cwhitehead@ucsd.edu). Salary per UCSD pay scales.

Applicants are welcome to include in their cover letter a personal statement summarizing their contributions to diversity. UCSD is an Equal Opportunity Employer with a strong institutional commitment to excellence through diversity. UCSD is an Equal Opportunity Employer with a strong institutional commitment to excellence through diversity.

Ron Burton rburton@ucsd.edu Marine Biology Research Division Scripps Institution of Oceanography University of California, San Diego La Jolla, CA 92093-0202

Ron Burton <rburton@ucsd.edu>

Smithsonian SummerResTraining

Smithsonian Research Training Program 26 May 2008 - 1 August 2008 Application Deadline: 1 February 2008

The Research Training Program is a museum-based, in-residence program exclusively for currently enrolled, English proficient, college-level undergraduate students interested in a career in the biological, geological or anthropological sciences. Through a competitive review process approximately 20 outstanding students from around the world are selected each year to participate. Students partner with a Smithsonian scientist to investigate a natural history research topic as well as participate in a series of lectures, workshops, demonstrations, behind-the-scenes tours, and field trips that focused on

exploring natural history science and developing the skills necessary to become effective researchers. Students, in collaboration with their Smithsonian research advisor, develop and test a scientific hypothesis and communicate the results through written manuscripts plus oral and poster presentations. Research is conducted in-residence at the Smithsonian's National Museum of Natural History in Washington, DC utilizing the vast research facilities and collection of the Museum including 126 million natural history specimens.

Comments RTP participant Sheena Ketchum: "The RTP lectures and tours provided me with a completely rounded and hands-on natural history education that is impossible to obtain anywhere else. Only here, and only through the RTP, over a course of ten weeks, could I have held a stone hand axe from Olduvai Gorge, touched a Mars meteorite, examined a 8,000 year-old skeleton from North America, played with a Clovis Point, worn a giant sapphire ring, held an atlatl, seen a coelacanth, picked up a piece of the world's mantle, seen specimens collected by historical figures such as: Theodore Roosevelt and Charles Darwin, had $\frac{3}{4}$ of a pound of gold thrown at me, ran my finger along the KT Boundary, smelled fossilized dung, seen the "Soap Man" and other mummies, examined Hopewellian beads made out of a meteorite, touched pieces of the Burgess Shale, seen countless type specimens, viewed the shrunken heads of the Jivaro, held a 4.56 billion-year-old meteorite, visited the rare books collection, seen a giant squid, experienced "museum time" first hand, as well as countless other experiences."

Participants are provided stipend (\$3,000), plus housing and travel. Detailed information and application materials are available electronically at: <http://www.nmnh.si.edu/rtp/> For more information contact:

Mary Sangrey Director, Research Training Program Head, Office of Academic Services

phone: 202-633-4548 fax: 202-786-0153 e-mail: sangreym@si.edu web: <http://www.nmnh.si.edu/rtp/> and http://www.nmnh.si.edu/rtp/other_opps/

Mail to: 10th Street & Constitution Avenue, NW P.O. Box 37012 MRC 106 NHB, Room 59A National Museum of Natural History Smithsonian Institution Washington, D.C. 20013-7012

"Sangrey, Mary" <SANGREYM@si.edu>

SouthernUtahU Chair

Position: Department Chair of Biology/Associate/Full Professor Salary: \$60,000 to less than \$70,000 Institution: Southern Utah University Location: Utah Date posted: 10/26/2007 Application deadline: 11/30/2007

Biology: Department Chair/Associate/Full Professor, Southern Utah University, Full-time, 10-month, tenure-track position. Lead and serve eleven full-time faculty serving undergraduate biology majors with emphases in Botany, Zoology and Forensics. Teach courses in vertebrate biology (comparative anatomy, mammalogy, ornithology) and other subjects as needs arise. Starts July 16, 2008. Earned doctorate in biological science required. Excellent benefits, including 14.2% university contributed retirement. See details and apply online at <http://jobs.suu.edu>. Closes November 30, 2007. Equal Opportunity, Affirmative Action Employer.

Contact Information:

Web Site : <http://jobs.suu.edu> Phone : 435-586-7754 Human Resources Southern Utah University Cedar City, UT 84720

Jonathon C. Marshall, PhD. 351 W. University Blvd. Dept. of Biology Southern Utah University Cedar City, UT 84720

Phone (435) 586-7927 Fax: (435) 586-8605

Home page: http://www.geocities.com/jcmarshall_species/Research.html Science Blog: http://geocities.com/jcmarshall_species/blog.html
jonathon.c.marshall@hotmail.com

Trondheim PopulationBiology

The Department of Biology at the Norwegian University of Science and Technology (NTNU) in Trondheim announces two vacant positions as Professor/Associate Professor in plant ecology and population ecology.

The plant ecology position has special responsibility for research and teaching in plant ecology, and is responsible for coordinating the teaching in floristics. The assessment will emphasize qualifications based on modern ecological theory and botanical processes, preferably connected to experimental experience, and the ability to utilize results in a conservation biological context.

The population ecology position has special responsibility for research and teaching in population ecology. The assessment will emphasize qualifications in population biology and conservation biology, knowledge in

using modern statistic methods in analyzing population ecological data, and the ability to utilize results in a conservation biological context.

For further information, please contact the Head of Department, Eivin Rikse, tel. +47 73 59 60 73, e-mail: roskaft@bio.ntnu.no or the Deputy Head of Department, Berit Johansen, tel +47 73596107, e-mail: bejo@bio.ntnu.no. More information about the department can be found on <http://www.bio.ntnu.no/eng>. Closing date is 7 December 2007.

Hans K. Stenoi, PhD Department of Biology Norwegian University of Science and Technology N-7491 Trondheim, Norway

Phone: +47 7359 6096 Mobile: +47 9189 7592 Fax: +47 7359 6100

http://www.bio.ntnu.no/Molecular_Ecology_and_Evolution/ <http://www.molecol.net/> stenoi@bio.ntnu.no

TulaneU 2 EvoBiol

TWO TENURE-TRACK ASSISTANT PROFESSORS

The Department of Ecology and Evolutionary Biology, Tulane University, invites applications for two tenure-track positions to be filled at the Assistant Professor level: one in global change biology, wetland ecology, or tropical biology; and one in computational biology preferably involving theoretical ecology, ecology and evolution modeling, or landscape ecology. See website: <http://www.tulane.edu/~ebio/news/new-positions.php> for more details about these positions and the Department. Send a letter of application indicating the position, curriculum vitae, statements of research and teaching interests, selected publications, and names and addresses of three references to: Faculty Searches, Department of Ecology and Evolutionary Biology, 400 Lindy Boggs Center, Tulane University, New Orleans, LA 70118-5698 Review of applications will begin soon after January 1, 2008, and the searches will remain open until the positions are filled. These positions are subject to a final University determination on funding. Tulane University is an Affirmative Action/Equal Employment Opportunity Employer

Michael Blum, Ph.D. Assistant Professor Dept of Ecology and Evolutionary Biology Tulane University New

Orleans, LA 70118 Phone (504) 862-8295 Fax (504) 862-8706 mjblum@tulane.edu

“Blum, Michael J ” <mjblum@tulane.edu>

UAlaska Curator of Fishes

Job Announcement

Curator of Fishes / Assistant Professor of Fisheries

The University of Alaska Museum (UAM) and the UAF School of Fisheries and Ocean Sciences (SFOS) invite applicants for the position of Curator of Fishes and Assistant Professor of Fisheries. One of the few Land, Sea, and Space Grant universities in the nation, UAF is noted for research expertise in Alaska's vast freshwater and ocean resources, which include more than half of the nation's coastline, three-quarters of the continental shelf, approximately three million inland lakes and thousands of miles of rivers and streams, and the largest fishery in the world. As a major resource center for the public and university scholars, the mission of the Museum is to acquire, conserve, investigate, and interpret specimens and collections relating to the natural, artistic, and cultural heritage of Alaska, the Circumpolar North, and beyond. Through education, research, and public exhibits, the Museum serves state, national, and international science programs. SFOS serves a similar role in the area of freshwater and marine sciences, and has 55 faculty and more than 135 graduate students engaged in research in Alaska waters and throughout the world. This tenure-track position, located on the University of Alaska Fairbanks (UAF) campus, will be functionally split between the Museum (75%) and SFOS (25%). The UAF campus facilities and expertise are well suited to support broad, collaborative research and curatorial interests.

Responsibilities: The successful candidate for this position will be expected to maintain, expand, and curate the fish collection at UAM and develop a dynamic, externally funded research program focusing on freshwater and/or marine fishes. A core laboratory for automated DNA sequencing and a supercomputing facilities are available for curatorial and research purposes. Opportunities exist for collaborative research with SFOS faculty in the Fisheries Division (Fairbanks and Juneau), Institute of Marine Science (Fairbanks), Fishery Industrial Technology Center (Kodiak), and Global Undersea Research Unit (Fairbanks) in the areas of fishery population dynamics, fisheries management,

fish and freshwater ecology, aquaculture, population genetics, bioenergetics, marine biology, and oceanography. A marine policy program under development at the UAF Fisheries Juneau Center, with faculty-initiated bioeconomic and marine policy research, also offers collaborative opportunities. There are opportunities to develop collaborative relationships with state (e.g., Alaska Department of Fish and Game) and federal (e.g., U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Department of Agriculture, National Park Service) agencies that support these research initiatives. The successful candidate will also be expected to develop and teach Ichthyology and Marine and Freshwater Fishes of Alaska. There is also an expectation that the successful candidate will participate in service activities associated with the Museum and SFOS as well as serve on regional and national committees and advisory panels.

Qualifications: Applicants must have a Ph.D. in evolutionary or comparative biology, systematics, fisheries, or a related field from an accredited university by the time of hire. Applicants with previous experience in developing, maintaining, and using museum collections; postdoctoral experience; and a background/expertise using modern molecular techniques will be preferred. Applicants must also be proficient in English, have university-level teaching ability, and have a strong research and publication record appropriate to their experience and date of degree. Additional information about the position can be found on the SFOS website at www.sfos.uaf.edu/employment. To apply, please go to <https://www.uakjobs.com> and click on posting #0054133. You will be asked to attach a CV and separate statements outlining your teaching, research, and curation philosophy, and contact information for three references. If you need assistance with the UAKJOBS process, please contact UAF Human Resources at 907-474-7700. For any other questions about the position please contact Dr. Trent Sutton, Search Committee Chair, at 907-474-7285 or tsutton@sfos.uaf.edu. Review of applications will begin December 07, 2007, and continue until the position is filled.

UAF is an AA/EO Employer and Educational Institution.

Derek S. Sikes, Curator of Insects Assistant Professor of Entomology University of Alaska Museum 907 Yukon Drive Fairbanks, AK 99775-6960

dsikes@alaska.edu http://homepages.ucalgary.ca/~dsikes/sikes_lab.htm phone: 907-474-6278 FAX: 907-474-5469

— / —

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>

UBern FieldAssist BirdPredation

I am seeking enthusiastic volunteers interested in assisting a field study in Bern, Switzerland. The research aims to study the effects of different avian predators on life-history traits of Great tits, and the interactions they might have with ectoparasites of the tits. The tits are a good system to examine the effects of different predators and ectoparasites since, being hole nesting birds, the risks the birds face as nestlings are different than those they face once they fledge. I will require 2 field assistants that will help with all the aspects of the work, including ringing the birds, simulating predators, conducting behavioral observations and recordings, and more. The study will take place in the forest near Bern starting roughly at the end of March 2008 and running until about the end of May 2008. Applicants with a BSc/Msc in Biology/Ecology and with bird handling experience would have an advantage. However, motivation will play a key role: the work is hard and demanding, may take place in changing weather and requires long hours at times. Motivated applicants could develop their own individual research on a topic related to the program and their own interests, and if particularly motivated could be involved in the publications. Accommodation and transportation within Europe may be provided. Some financial assistance may also be available to cover living expenses on a case by case basis and according to educational status. Candidates must hold a valid European driving license. For further details please contact Michael Coslovsky at m.coslovsky@students.unibe.ch or at + 41 31 631 3019. m.coslovsky@students.unibe.ch

UBern Tech ConservationBiol

DNA laboratory technician 50-100% 3-6 months, with possible prolongation

Our Division of Conservation Biology is looking for a molecular biology technician who would be in charge

of analyses for bird sexing (Hoopoe and Wryneck conservation projects). Analyses require extractions (from feather and blood samples), PCR, enzymatic restriction and electrophoreses.

The ideal candidate is an undergraduate or graduate student with good laboratory skills, or a professional DNA lab technician. Personal interest for conservation issues would be appreciated.

The applicant will work in a small research team including postdoctoral scientists, PhD and MSc students.

Applications, including a letter of motivation, CV and, possibly, list of publications should be sent until December 7th 2007 to:

Dr Michael Schaub (michael.schaub@nat.unibe.ch) Division of Conservation Biology, Zoological Institute, University of Bern, Baltzerstrasse 6, 3012 Bern, Switzerland

Thank you very much for your help!

With best wishes

Michael Schaub

Michael Schaub Zoological Institute - Conservation Biology University of Bern Baltzerstr. 6a 3012 Bern Switzerland ++41 (0)31 631 31 64 michael.schaub@nat.unibe.ch & Schweizerische Vogelwarte 6204 Sempach Switzerland ++41 (0)41 462 97 66 michael.schaub@vogelwarte.ch

SCHAUB Michael <michael.schaub@nat.unibe.ch>

UBielefeld EvolBiol

*University** **Bielefeld**, Evolutionary Biology*

Applications are invited for a *Research associate* position in the *evolutionary biology* group at the University Bielefeld, Germany. The position is available in March 2008 and is initially for 3 years, with the possibility of extension for up to 3 additional years.

We are looking for a highly motivated young scientist with post-doc experience to form her/his own research group in the field of evolutionary biology. We especially welcome applications from researchers working on insects and using modern molecular methods in evolutionary ecology or population genetics. Candidates should have a proven record of independent research and publication and should be willing to attract their own funding. It is possible to obtain the degree of "Ha-

bilitation” in this position.

The successful candidate is expected to take part in teaching evolutionary biology (approximately 2 courses per year) and in supervising both undergraduate and graduate students. Teaching is mainly in German, but it is possible to teach in English until a sufficient knowledge of German is acquired. Starting date is negotiable (any time from March 2008 onwards).

Payment is based on the German TV-L E13 federal public service scale (approx. 32,000 to 40,000 per year before tax and social security, depending on experience). The University Bielefeld is an equal opportunity employer and encourages disabled persons to apply. It also aims at increasing the number of women in fields where they are underrepresented, and therefore encourages them to apply.

Applications can be sent by e-mail and should include a CV, a list of publications and a one-page research statement, including research plans. Please give names and e-mail addresses of two or three people who are willing to write a letter of recommendation. Applications received before December 15, 2007 will be given full consideration.

Applications and inquiries should be sent to:

Professor Dr. Klaus Reinhold Fakultät für Biologie, Abteilung Evolutionsbiologie Universität Bielefeld Morgenbreede 45 33501 Bielefeld

e-mail: klaus.reinhold@uni-bielefeld.de
 <mailto:klaus.reinhold@uni-bielefeld.de> Tel.:
 ##-49-521-106-2721 <http://www.uni-bielefeld.de/-biologie/Evolutionsbiologie/eng/> klaus.reinhold@uni-bielefeld.de klaus.reinhold@uni-bielefeld.de

UCalgary PlantBiol

[Although it does not state this explicitly in the following ad description, we are currently building up our evolutionary focus in the Department. Therefore, I encourage, for example, “evo-devo” types to apply. - SMV]

Plant Biologist, Department of Biological Sciences, University of Calgary

The Department of Biological Sciences at the University of Calgary is seeking to hire a plant biologist whose research addresses questions in developmental biology, physiology or cell biology. This is a tenure track posi-

tion at the Assistant Professor level and is part of the departments academic plan to further enhance its research program in key strategic areas, including plant biology. The anticipated start date is July 1, 2008. Applicants must have a Ph.D., at least one year of relevant post-doctoral experience and an established record of high-quality research. The successful candidate will be expected to develop an externally funded research program and participate in undergraduate and graduate teaching. Applicants may be eligible for funding through a variety of programs aimed at helping new investigators establish vibrant research programs, including Alberta Ingenuity New Faculty Awards (<http://www.albertaingenuity.ca>) and the Canada Foundation for Innovation (<http://www.innovation.ca/index.cfm>).

The Department of Biological Sciences (<http://www.bio.ucalgary.ca>) is a large and diverse department with excellent facilities. The City of Calgary (pop. 1 million) has a lively cultural life, vibrant economy and many recreational opportunities. It is located less than an hour from the Rocky Mountains and Banff National Park. Applications should include a cover letter, a curriculum vitae, a concise outline of research plans, copies of up to five publications, a statement of teaching interests and philosophy, and three letters of reference sent directly by the referees. The deadline for receipt of a complete application package is January 7, 2008.

Applications should be sent to: Dr. Jeffrey I. Goldberg, Head, Department of Biological Sciences, University of Calgary, 2500 University Drive NW, Calgary, Alberta T2N 1N4. FAX: (403) 289-9311.

Only paper applications will be considered. All qualified candidates are encouraged to apply; however, Canadians and Permanent Residents will be given priority. The University of Calgary respects, appreciates and encourages diversity.

smvamosi@ucalgary.ca smvamosi@ucalgary.ca

UCaliforniaBerkeley ExperimentalPopGenet

THE UNIVERSITY OF CALIFORNIA, BERKELEY
 Department of Integrative Biology

Faculty Position in Experimental Population Genetics
 Position ID #1213

The Department of Integrative Biology at the Univer-

sity of California, Berkeley, is seeking a scientist for a tenure-track position (Assistant Professor) in experimental population genetics. We seek a colleague to join a department with a strong multidisciplinary emphasis and to help the Berkeley campus strengthen its program in evolutionary biology and population genetics. We seek applicants with a Ph.D. or equivalent advanced degree and an exceptional research record in experimental studies with plants, animals or microbes of phenotypic variation, adaptation, reproductive isolation, coevolution or other areas of evolutionary genetics. Candidates will be required to contribute to our undergraduate and graduate teaching programs in population genetics, general genetics, and evolutionary biology.

Interested applicants should send a CV, including a bibliography of published work, a brief description of research accomplishments and objectives, a statement of teaching interests, selected reprints, and arrange to have three letters of reference sent to:

Chair, Experimental Population Genetics Search Committee
Department of Integrative Biology 3060 Valley Life Sciences Building
University of California Berkeley, CA 94720-3140 USA

or electronically to: <http://gold.ls.berkeley.edu:80/-sReg.php?i> (electronic submission of PDF files preferred)

Applications and supporting letters must be received electronically or postmarked by December 31, 2007. Review of application will begin January 2, 2008.

Applicants should refer their reviewers to the UC Berkeley Statement of Confidentiality at <http://apo.chance.berkeley.edu/evaltr.html>. The University of California is an Equal Opportunity/Affirmative Action Employer.

Montgomery Slatkin <slatkin@berkeley.edu>

UCaliforniaSanDiego InvertebrateEvolution

DESCRIPTION: Participate in research on invertebrate animal evolution. This includes processing of specimens through various chemicals, arranging for histological sectioning of wax-embedded specimens (done externally), conducting routine semi-thin sectioning and ultrathin sectioning of plastic embedded specimens and preparing specimens for scanning electron mi-

croscopy. Digital micrographs will be taken of sections and some use of microscopes (both light and electron) is required. Entering photographic and specimen records in a database as well as deposition of specimens in Museum collections are also important duties. Scanning of images from various sources to be entered into an image database documenting invertebrate anatomy is also required. Responsible for the histology and microscopy area of the lab.

QUALIFICATIONS: * Knowledge of animal diversity. * General background, knowledge and/or experience with histological techniques and microtomy. * Experience with microscopes (light and electron). * Experience with digital image acquisition and processing and database entry. * Skill, ability and willingness to learn new laboratory techniques, lab equipment and computer hardware/software rapidly and as needed. * Excellent oral and written communication skills. * Ability to maintain clear, concise lab notes and records. * Ability to work with hazardous chemicals (formalin, ethanol etc).

Lab Asst III. Full Salary Range: \$2,794 - \$3,325/month. One year appointment; possible extension.

To apply and for further details go to: http://joblink.ucsd.edu/bulletin/job.html?cat=new&job_id=-44472 Greg Rouse Scripps Institution of Oceanography, UCSD 9500 Gilman Drive La Jolla CA, 92093-0202 USA

<http://spineless.ucsd.edu/> e-mail: grouse@ucsd.edu
Office Ph: +1 858 534 7973 Lab Ph: +1 858 534 9941
Fax: +1 858 534 7313

grouse@ucsd.edu grouse@ucsd.edu

UCambridge 2 PlantEvol

http://www.jobs.ac.uk/jobs/FH437/-Career_Development_Research_Fellowships/ Applications are invited for two 5-year Research Fellowships in the Department of Plant Sciences at the University of Cambridge. Successful applicants will be early career scientists with an excellent track record of innovative research. They will be expected to develop multidisciplinary research programmes in areas of plant science that bridge the gaps between molecular or cell biology and studies at the population or evolutionary level. Successful applicants will be provided with space and substantial resources to establish a research

group. They will be encouraged to establish links with groups in the Department of Plant Sciences, in other departments in the University and with the new Sainsbury Laboratory in the University Botanic Garden, that is planned for completion in 2010.

The positions will be available from the summer of 2008. Details of existing facilities and research in the department, and further particulars including the recruitment process, stipend and resources and prospects for future career development, can be found on the Department of Plant Sciences website (<http://www.plantsci.cam.ac.uk/>).

Informal enquiries can be made to Professor David Baulcombe (dcb40@cam.ac.uk) or Professor John Gray (jcg2@cam.ac.uk). Applications, consisting of a c.v., 3-page research proposal and the names and contact details of 3 referees, should be submitted electronically to Catherine Butler (cek31@cam.ac.uk) at the Department of Plant Sciences, University of Cambridge.

There is no specific closing date.

Assessment of applications will commence on December 10th 2007 and will continue until excellent candidates have been identified.

dcb40@cam.ac.uk

UChicago SystemsBiol

Genomics and Systems Biology

The Department of Human Genetics and The Institute for Genomics & Systems Biology (IGSB) are jointly seeking to fill tenure track faculty positions with individuals working in the areas of genetics, genomics or systems biology. Candidates addressing scientific problems or biological systems with translational research potential will be of particular interest. Rank is open, with a preference for candidates at the level of ASSISTANT or ASSOCIATE PROFESSOR. Send a CV, selected reprints and preprints, statements of research and teaching interests, and arrange to have three letters of reference sent to the Human Genetics and Institute for Genomics & Systems Biology Search Committee at: search@genetics.uchicago.edu Applications will be accepted until the position is filled, but applications should be received before 31 December 2007 to ensure full consideration.

Department of Human Genetics The University of

Chicago 920 E. 58th Street, CLSC 507 Chicago, IL 60637 <http://genes.uchicago.edu/> The University of Chicago is an equal opportunity/affirmative action employer.

pgrabova@bsd.uchicago.edu

UCLouvain PopulationBiology

Université catholique de Louvain Department of Biology Biodiversity Research Center

Full-time Tenure-track Faculty Position in Population Biology

Ref: SC/BIOL17/2008/842

A full-time tenure-track faculty position is available in the Unit of Ecology and Biogeography (Biodiversity Research Center), beginning in September 2008. The field of research of the new faculty member should be complementary to the research currently carried out in the Unit (http://www.ecol.ucl.ac.be/index_en.html). Possible fields of interest include conservation biology, molecular ecology, eco-physiology and evolutionary ecology, but high-profile candidates from other fields will also be considered. She/He will develop a strong research programme and supervise the work of MSc and PhD students. Applicants should have a PhD or equivalent, post-doctoral experience and a strong record of international publications. Moreover, experience in and commitment to teaching at the university level and the capability to undertake scientific research at a high level and to lead a research team are required. The successful candidate will be responsible for teaching at one or more of the three levels of education (BSc, MSc, and PhD) as well as in the programme for continuing education. A good knowledge of both spoken and written French is required. If this is not the case, the applicant should be ready to learn French within a year. Fluency in English is essential and active or passive knowledge of other languages is an additional advantage. For the exact application procedure consult <http://www.uclouvain.be/en-38120.html> Closing date : 18 January 2008. For more information, contact Prof. Renate Wesselingh (wesselingh@ecol.ucl.ac.be, +32 10 47 34 47) or Prof. Thierry Hance (hance@ecol.ucl.ac.be, +32 10 47 34 93).

The Université catholique de Louvain is committed to equality of opportunity in employment.

Renate Wesselingh <wesselingh@ecol.ucl.ac.be>

UColorado Computational Biol

FACULTY POSITION IN COMPUTATIONAL BIOLOGY

The University of Colorado at Boulder invites applications for a tenure-track faculty position in the broad areas of computational biology and bioinformatics, under the auspices of the Colorado Initiative in Molecular Biotechnology (CIMB). Individuals with interests in developing and applying computational or mathematical methods to biological systems are encouraged to apply.

CIMB is a program which integrates faculty from the departments of Applied Mathematics; Chemical & Biological Engineering; Chemistry & Biochemistry; Computer Science; Ecology and Evolutionary Biology; Integrative Physiology; Mechanical Engineering; Molecular, Cellular & Developmental Biology; and Physics (<http://bayes.colorado.edu/biotech>). A successful candidate may be rostered in any one of these departments. The position is at the ASSISTANT PROFESSOR level, although senior candidates at higher ranks will be considered. Candidates must have a Ph.D. degree and a demonstrated commitment to teaching at undergraduate and graduate levels, and will be expected to develop an internationally recognized research program.

Applicants should submit a curriculum vitae, statements of research and teaching interests, and arrange to have three letters of reference sent to Computational Biology Search, 347 UCB, University of Colorado, Boulder, CO 80309-0347. Application materials may be sent electronically to: CompBio@colorado.edu. Review of applications will begin on January 15, 2008 and will continue until the position is filled. The University of Colorado is sensitive to the needs of dual career couples, and is committed to diversity and equality in education and employment. See www.Colorado.edu/ArtsSciences/ Jobs/ for full job description.

If you have any questions, please contact Andrew Martin am@colorado.edu

Andrew Martin Dept of Ecology and Evolutionary Biology University of Colorado Boulder, CO 80309

Andrew Martin <Andrew.Martin-1@Colorado.EDU>

UCopenhagen ResFellowship AntEvol

The evolution of the recognition code in ants

A 6-month research fellowship will be available from January 2008 at the Department of Biology, University of Copenhagen, Denmark. The position is funded by the European Community via a Marie Curie Excellence Grant. The successful candidate will work with the group of Patrizia D'Ettorre (www.bi.ku.dk/-codices), which is integrated into the Centre for Social Evolution (www.bi.ku.dk/cse).

The research project will focus on Chemical Communication Code of Insect Societies, with a multidisciplinary approach (behavioural, chemical, electro- and neurophysiological analyses and genetics).

Applicants should be highly motivated and have a Master degree in Biology or related disciplines, and a good background in Evolutionary Biology. Familiarity with general molecular evolutionary techniques, with chemical ecology techniques and neurophysiology is desirable but not compulsory.

Applications should include CV, list of publications, research interests and be sent by email to Patrizia D'Ettorre at pdettorre@bi.ku.dk as soon as possible, latest by December 1st 2007.

Patrizia D'Ettorre, Associate Professor Centre for Social Evolution Department of Biology, Section Population Biology University of Copenhagen

Universitetsparken 15, 2100 Copenhagen 2100 Copenhagen, Denmark

Tel +45 353 21257; Fax +45 353 21250

Patrizia D'Ettorre <PDettorre@bi.ku.dk>

UFlorida Phylogenomics

Computational Genomics/Phylogenomics Search

The University of Florida, Department of Botany (<http://web.botany.ufl.edu/>), invites applications for a full-time, 9-month, tenure-track position in compu-

tational genomics/phylogenomics at the level of ASSISTANT PROFESSOR to begin August, 2008. Candidates with expertise and research interests in plant phylogenetic relationships, evolutionary and/or population genomics are desired. A strong commitment to both undergraduate and graduate teaching and training is required. The candidate will contribute to teaching in the areas of introductory biology, plant systematics, and phylogenetics, and will develop a course in computational phylogenomics. The successful candidate is expected to maintain an active, high-level, interdisciplinary, and extramurally-funded research program. Applicants should send a curriculum vitae, brief statements of research interests and teaching philosophy, and a selection of reprints (no more than three) to: Computational Genomics/Phylogenomics Search Committee, pdwill@botany.ufl.edu. Applicants also should have three individuals submit reference letters to the above address. Application materials and reference letters should be received by January 7th, 2008. The University of Florida is an Equal Opportunity Institution.

Ted Schuur, Ph.D. Asst. Professor of Ecosystem Ecology Department of Botany 220 Bartram Hall, PO Box 118526 University of Florida Gainesville, FL, 32611-8526 ph 352-392-7913 fax 352-392-3993 tschuur@ufl.edu <http://ecology.botany.ufl.edu/ecosystemdynamics/-schuur/> Ted Schuur <tschuur@ufl.edu>

UGeorgia ResTech DrosophilaEvolGenetics

A full time Research Technician position is available at the University of Georgia in the laboratory of Kelly Dyer.

Our research focuses on the evolutionary and ecological genetics of mushroom-feeding *Drosophila*. Current work investigates the effects of intra-genomic parasites on fly population genetics, behavior, and ecology. The exact nature of the research will depend on the person's experience, but laboratory work will involve both molecular biology techniques (DNA/RNA extraction, PCR, DNA sequencing, cloning, genotyping) and experiments with *Drosophila* (crosses, behavioral observations, fitness assays). Additional responsibilities will include maintaining *Drosophila* stocks, supervising undergraduate researchers, ordering lab supplies, and maintaining safety records.

Applicants should have a minimum of a Bachelors de-

gree in a Biology- related field, previous experience in biological research, and strong interpersonal communication skills. Experience with molecular techniques and working with *Drosophila* or other insects is preferred. The ideal candidate will be organized, pay close attention to detail, and be able to work both independently and in collaboration with others.

Applicants may contact me directly at kdyer@uga.edu with informal questions, but are required to apply through the UGA Human Resources website (posting number 20070886 at www.uga.jobsearch.com). The position is available immediately and applications will be reviewed until the position is filled. Salary is commensurate with experience and will include benefits.

The Dyer lab is a part of the diverse and interactive UGA Genetics Department, for which more information can be found at <http://www.genetics.uga.edu/>. The University of Georgia is located in Athens, GA. Athens is located about 60 minutes from Atlanta and is consistently ranked one of the top college towns in the country. It has a vibrant music scene, plentiful opportunities for outdoor recreation, and a reasonable cost of living. For more information about living in Athens, see <http://www.visitathensga.com/> Kelly Dyer Assistant Professor Department of Genetics University of Georgia Athens, GA 30602-7223

email: kdyer@uga.edu

phone: 706 542 3154

web: http://www.genetics.uga.edu/people_bio_dyer.html kdyer@uga.edu kdyer@uga.edu

UGoettingen 3 EvolutionEarlyMetazoans

Dear Colleagues,

There are still 10 days left to apply for three

Tenure-Track Professorships to build up Independent Research Groups at the Courant Research Centre Geobiology, University of GÃ, Germany.

I would be grateful if you could forward this information to other colleagues who might be interested, and to potential candidates.

The positions are available immediately, will be at the German W1 salary scale (Junior-Professorship), have a reduced teaching responsibility, six years of funding to

build up an Independent Research Group and a tenure option (W2 or W3 Professorships) depending on successful review after 3 and 6 years.

This research centre will integrate contributions from different fields of Geobiology: deep biosphere geomicrobiology, evolution of early metazoans, and evolution of early land plants for a better understanding of the origin and evolution of the biosphere and the consequences for System Earth. We are seeking outstanding young postdoctoral researchers with an internationally acknowledged track record who will complement and strengthen our existing research programs focusing on

- (1) microbial ecology and biogeochemistry of subterranean environments,
- (2) molecular (paleo-) biology and phylogeny of fossil and recent metazoans, and
- (3) molecular (paleo-) biology and phylogeny of fossil and early recent land plants.

The applicant's research statement should explicitly outline how interdisciplinary integration will be achieved among the research groups as well as in cooperation with existing groups in Geobiology and Plant Systematics, e.g. with the DFG Research Unit "Geobiology of Organo- and Biofilms" (FOR 751), the DFG Priority Programme "Deep Metazoan Phylogeny" (SPP 1174), and a project on "Deep Land Plant Phylogeny". We expect that the successful candidates will closely interact with the other members of the Courant Centre.

Subject to final official approval, to each of the Independent Research Groups will be allocated

1 Postdoc position for 5 years
1 PhD student position for 5 years
1 technical assistant for 5 years

a budget of ca. 50.000 Euro per year for 5 years.

Applications including a CV, information on external funding and awards, a list of publications, the applicant's three most significant articles, a brief research plan fitting into the topics of the Courant Research Centre as well as name and address for two references are requested by December 3, 2007 and should be sent to the coordinator of the Courant Research Centre:

Prof. Dr. Joachim Reitner, Department of Geobiology, Goldschmidtstr. 3, 37077 G ttingen, Germany (phone: +49 551 39 7950; email: jreitne@gwdg.de).

Please see < <http://www.uni-goettingen.de/en/58684.html> > and < <http://www.uni-goettingen.de/en/58829.html> > for further details.

with best regards

Gert

Gert W rheide Junior Professor for Molecular Geobiology
Courant Research Center Geobiology Georg-August-
Universit t G ttingen Goldschmidtstr.3 37077 G ttingen, Germany

phone: +49-(0)551 39 14 177 mobile: +49-(0)178 537
22 33 fax: +49-(0)551-39 79 18 SkypeIn: +49-(0)551-29
81 400 Skype: spongegert

gert.woerheide@geo.uni-goettingen.de

www.geobiology.eu www.spongebarcoding.org
www.geobiology.uni-goettingen.de

www.biodiversitaet.gwdg.de Selected Lab Publications last 5 years: < <http://www.molgeobio.uni-goettingen.de/selected.html> >

gert.woerheide@geo.uni-goettingen.de

gert.woerheide@geo.uni-goettingen.de

UGoettingen EarlyLife

Please distribute widely. Apologies for cross-posting.

The newly founded Courant Research Centre "Geobiology - Development of Early Life and Organic Matter Controlled by Rock and Mineral Forming Processes" at the Georg-August-University of G ttingen invites applications for three

tenure-track Professorships

to build up Independent Research Groups.

The positions are available immediately will be at the W1 salary scale (junior-professorships), come with a reduced teaching responsibility, six years of funding to build up an independent research group and a tenure option (W2 or W3) depending on successful review after 3 and 6 years.

This research centre will integrate contributions from different fields of Geobiology: deep biosphere geomicrobiology, evolution of early metazoans, and evolution of early land plants for a better understanding of the origin and evolution of the biosphere and the consequences for System Earth. We are seeking outstanding young postdoctoral researchers with an internationally acknowledged track record who will complement and strengthen our existing research programs focusing on (1) microbial ecology and biogeochemistry of subterranean environments, (2) molecular (paleo-) biology and phylogeny of fossil and recent metazoans, and (3) molecular (paleo-) biology and phylogeny of fossil and early recent land plants. Candidates for up to three group leader positions will be considered. The appli-

cant's research statement should explicitly outline how interdisciplinary integration will be achieved among the junior research groups as well as in cooperation with existing groups in Geobiology, e.g. with the DFG Research Unit FOR 751 "Geobiology of Organo- and Biofilms", "Deep Metazoan Phylogeny", and "Plant Systematics". We expect that the successful candidates will closely interact with the other members of the Courant centre. For further information see < <http://www.uni-goettingen.de/en/sh/58829.html> >

The Georg-August-University is substantially fostering the career opportunities for female researchers and scholars and therefore strongly encourages qualified women to apply for a position as Research Group leader. As part of its gender equality concept the University provides special support to ease the compatibility of career and family. Together with the City of Göttingen and the non-university research institutions the university offers a Dual Career Service. We explicitly welcome applications from abroad. Disabled persons with corresponding aptitude for the position will be favoured.

The selection procedure will include a symposium to be held in December 2007 or January 2008. Further Informations for applicants and informations about the selection procedure are available from the speaker (see below).

Applications including a CV, informations on external funding and honours, a list of publications, the three most significant articles, a brief research statement fitting into the topics of the selected Courant Research Centre as well as name and address of two References are requested by December 3rd, 2007 and should be sent to the speaker of the Courant Research Centre:

Prof. Dr. Joachim Reitner, Department of Geobiology, Goldschmidtstr. 3, 37077 Göttingen, Germany (phone: +49 551 39 7950; email: jreitne@gwdg.de; <http://www.geobiologie.uni-goettingen.de>).

+-----+

Gert Wörheide Junior Professor for Molecular Geobiology Courant Research Center Geobiology Georg-August-Universität Göttingen Goldschmidtstr.3 37077 Göttingen, Germany

phone: +49-(0)551 39 14 177 mobile: +49-(0)178 537 22 33 fax: +49-(0)551-39 79 18 SkypeIn: +49-(0)551-29 81 400 Skype: spongegert

gert.woerheide@geo.uni-goettingen.de

www.geobiology.eu www.spongebarcoding.org
www.geobiologie.uni-goettingen.de
www.biodiversitaet.gwdg.de

UHouston Evolutionary Microbiology

FACULTY POSITION IN MICROBIOLOGY

The Department of Biology and Biochemistry at the University of Houston invites applications for a tenure-track Assistant, Associate or Full Professor position in any aspects of modern microbiology. The successful candidate will complement existing strengths in genomics, gene regulation, structural biology, cell cycle, membrane transport, evolution and ecology of microbial systems. The successful candidate is expected to maintain a nationally competitive externally funded research program and participate in graduate and undergraduate teaching. The Department has spacious laboratories and offers competitive startup packages. Please submit curriculum vitae and statement of research interests, and have three letters of recommendation sent to: Microbiology Search Committee, Department of Biology and Biochemistry, University of Houston, 77204-5513. UH is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

Rebecca Zufall Assistant Professor Dept of Biology and Biochemistry 321D Science and Research 2 University of Houston Houston, TX 77204 713-743-8172 (office) 713-743-8136 (lab) rzufall@uh.edu <http://bchs.uh.edu/~rzufall/> rzufall@uh.edu rzufall@uh.edu

ULisbon Bioinformatics

The Centre for Environmental Biology at the Faculty of Sciences of the University of Lisbon invites applications for a research scientist position in Bioinformatics. The successful candidate is expected to implement a Bioinformatics group. The CBA works on a wide range of non-model organisms for which genetic data are being produced. The candidate is expected to adapt existing and develop new analytical tools in the areas of comparative and population genomics.

We are expecting candidates with programming experience in languages such as Perl, Python, Java, or other

and with a strong statistical genetics background.

Other areas where the candidate is expected to intervene are ongoing and future projects involving, for instance, the discovery of single nucleotide polymorphisms, comparative genomics and hybridization.

The successful candidate will also be expected to lecture and supervise students on these subjects. He/she will become involved in ongoing projects in Evolutionary Biology and Development Unit, but will also be expected to design new projects and pursue funds for research on topics related to the overall mission of the unit, integrating its members and graduate students.

Candidates should be fluent in English, and knowledge of Portuguese would be desirable, although not essential.

Applicants must have a Ph.D. in Biology or in a closely related field, and should submit their curriculum vitae, degree certificates, a letter of motivation, up to five selected reprints, and names and addresses of three individuals who can be contacted for letters of reference.

Please refer to job reference in all application materials.

Application deadline: 31 December 2007

5-year position, base salary: 43kEUR (annual)

For other details:

<http://www.eracareers.pt/opportunities/-index.aspx?task=global&jobId=7750> <<http://www.eracareers.pt/opportunities/index.aspx?task=global&jobId=7750> 0>

Manuela Coelho

Maria Manuela Coelho <mmcoelho@fc.ul.pt>

UManitoba Phylogenomics

UNIVERSITY OF MANITOBA - CANADA RESEARCH CHAIR - TIER II Phylogenomics Chair, Department of Biological Sciences, Faculty of Science Position # 06661 and 06662

The University of Manitoba is seeking applications or nominations for a Canada Research Chair established by the Government of Canada to enable Canadian Universities to foster world-class research excellence (www.chairs.gc.ca). Our Strategic Research Plan (www.umanitoba.ca/admin/vp_research/-research_chairs.html) identifies a Tier II Chair in the

Faculty of Science in the area of Phylogenomics as a priority.

The emerging field of Phylogenomics uses an exciting comparative approach to research that integrates the study of the evolution of species using genomic data and the study of genome function using phylogenetic data, and can powerfully inform a broad spectrum of biological research.

Candidates must be established scholars with demonstrated potential of becoming world leaders in their research area. They should have a strong commitment toward interdisciplinary research and collaboration, and the ability to attract excellent graduate students and post-doctoral fellows. The successful applicant must have less than 10 years experience since receiving a Ph.D. and have an independent research program in one or more of the following areas: evolutionary biology, comparative bioinformatics, structure-function relationships, computational biology, developmental biology and model organisms. The appointment will be full-time tenure track at the rank of Assistant or Associate Professor with a reduced teaching commitment. The incumbent will further strengthen the department's research and teaching, and could initiate and facilitate a wide-ranging research program and develop contributions through new courses and programs in Biotechnology, Bioinformatics, Systems Biology or other areas of particular interest.

Resources available to the Chair include a dynamic research environment at the Fort Garry Campus of the University of Manitoba, leadership in IT/communications, bio-sensing and bio-diagnostics, high-performance computing (WestGrid) structural biology, functional genomics, mass spectrometry and neural computation among many others, and a strong Technology Transfer Office.

The University of Manitoba is located in Winnipeg, a multicultural community of over 675,000 people. Its ethnic and cultural diversity is celebrated through many annual festivals, and world-class arts, entertainment and professional sports. Winnipeg boasts a balanced lifestyle with affordability, and is located close to superb outdoor recreational activities and a wide variety of lakes, beaches and wilderness areas. For more information visit: www.tourism.winnipeg.mb.ca. The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Women are particularly encouraged to apply.

Review of applications will begin on February 1, 2008. Applications including a curriculum vitae, a brief five-year research plan, and the names and contact information of three referees should be sent by January 31, 2008 to:

Dr. Judy Anderson Head, Department of Biological Sciences Faculty of Science University of Manitoba R3T 2N2 or to janders@ms.umanitoba.ca (pdf applications encouraged).

All Chair nominations by the University of Manitoba are subject to review and final approval by the CRC Secretariat.

Application materials, including letters of reference, will be handled in accordance with the "Freedom of Information and Protection and Privacy Act" (Manitoba).

Alison <mcaulaya@cc.umanitoba.ca>

UMaryland Bioinformatics

University of Maryland, College Park Department of Computer Science Tenure-Track Faculty Position in Bioinformatics and Computational Biology

The University of Maryland, College Park, invites applications for faculty positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level in the Center for Bioinformatics and Computational Biology (cbcb.umd.edu), to be appointed jointly with the Computer Science Department (www.cs.umd.edu). After hiring a new Director in 2005, the University committed the resources to recruit six additional tenured and tenure-track faculty for the Center as part of an effort to maintain a world-class research group in bioinformatics, computational biology, computer science, genetics, and genomics. Parallel searches are ongoing in the areas of evolutionary biology and human genomics.

All applicants are expected to have strong publications and research experience in the areas of biological science and computing. Senior candidates will be expected to lead internationally prominent research programs in computational aspects of genomics and bioinformatics. Experience in interdisciplinary collaboration is an important asset. Exceptional candidates from areas outside of computer science are also encouraged to apply.

The faculty will be housed in contiguous space dedicated to the Center, and will have access to a high-

end computing infrastructure through the University of Maryland Institute for Advanced Computer Studies.

Applicants should apply online at:

<https://www.cbcb.umd.edu/hiring/online/2008> .

Applications should include a cover letter, curriculum vitae, and a description of research and teaching interests. Applicants at the Assistant Professor level should provide names and contact information for at least 3 people who will provide letters of reference. Applicants for Associate or Full professor should provide the names of at least 5 references. For full consideration, applications should be received by January 3, 2008, however applications may be accepted until the position(s) are filled.

The University of Maryland is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.

Carl Kingsford Center for Bioinformatics & Computational Biology Department of Computer Science & Institute for Advanced Computer Studies Biomolecular Sciences Bldg #296 University of Maryland, College Park (301) 405-7395 carlk@cs.umd.edu

carlk@umiacs.umd.edu carlk@umiacs.umd.edu

UMaryland EvolBiol

THE UNIVERSITY OF MARYLAND, DEPARTMENT OF BIOLOGY seeks tenure-track faculty working in the following areas:

Evolutionary Biology (rank open) - we seek individuals using empirical, experimental, theoretical or computational approaches. This includes, but is not limited to, genome evolution, speciation, the evolution of disease and the evolution of development. Successful candidates will have developed, or demonstrated the potential to develop, an outstanding research program and will teach within our undergraduate and graduate programs.

Ecology (Associate or Full Professor) - we seek individuals leading outstanding research programs addressing questions of broad significance in ecology or conservation biology using empirical, experimental and/or theoretical approaches. The successful candidate will teach within her/his area of research expertise within our Ph. D. programs and will direct the high-profile Sustainable Development and Conservation Biology (CONS) M.S.

program. Significant instructional and administrative support will be available to facilitate operation of the CONS program (www.chemlife.umd.edu/cons) so that the Director can maintain a vibrant and productive research program.

Successful candidates will complement a vibrant group of researchers within the College of Chemical and Life Sciences and the Center for Bioinformatics and Computational Biology. The College has recently completed construction of a 155,000 sq. ft. Bioscience Research Building. Our proximity to Washington, Baltimore, and the Maryland Biotechnology Corridor facilitates interactions with an extraordinary range of major research institutions. For more information visit our web site at www.chemlife.umd.edu/biology. To apply send PDF files of a C.V., statements of research and teaching interests, sample publications, and the names and addresses of three references to ebsearch@umd.edu (Evolutionary Biology only) or ecosearch@umd.edu (Ecology only). Consideration of submitted materials will commence Dec 1st, 2007. The University of Maryland is an equal opportunity/affirmative action employer. Applications from minorities and women are encouraged.

–

Alexa Bely Assistant Professor Department of Biology 1210 Biology/Psychology Bldg. #144 University of Maryland College Park, MD 20742-4415 USA

email: abely@umd.edu phone: (301) 405-0225 (office) (301) 405-0239 / -0453 (lab) fax: (301) 314-9358 office: 0220 Biology/Psychology Bldg www.life.umd.edu/biology/faculty/bely/BelyLab.htm abely@umd.edu
abely@umd.edu

UMassachusetts 3 EvoBiology

I'd like to call attention to three open faculty positions at UMass Amherst that were recently advertised in Science. Although the ad does not mention evolution explicitly, the three positions are broadly defined, and we'd like to encourage folks from relevant evolutionary fields (e.g. evolutionary ecology, systems biology, evo-devo...) to apply.

-A.L. Caicedo

3 Global Change Biology

The Department of Biology at the University of Mas-

sachusetts at Amherst is seeking to fill three tenure-track faculty positions at the Assistant professor level:

One position is broadly defined as the area of Ecological Physiology. We are looking for a researcher whose work is field-based and integrative, and are particularly interested in researchers using genetic and hormonal approaches within an ecological context. Organismal focus (animal or plant) is open.

The second position is in the area of Endocrine Disruption. We are seeking a researcher whose interest is in effects of environmental contaminants on endocrine physiology. We are particularly interested in researchers examining the physiological mechanisms underlying endocrine disruption.

The third position is in the area of Plant Metabolism. We are seeking a researcher who uses systems biology and/or functional genomic approaches to understanding plant metabolism. The area of research should be relevant to the use of plants for bioenergy, for example, carbon metabolism or biopolymer production by plants.

The researchers would be expected to participate in a broad multi-disciplinary initiative in Global Change Biology within the Department of Biology. This initiative bridges a group of faculty who use multiple levels of analysis to understand how rapid environmental changes are impacting populations and individual organisms, including: loss of biodiversity, rapid evolution, disruption of physiology, reduced agricultural outputs, and evolution of new pathogens. Postdoctoral experience required.

Applications, which should include CV, statements of research interest and teaching philosophy, and the names, addresses and e-mails of at least 3 references, should be sent to: Biology Search c/o Ms. Karen Nelson, Biology Department, University of Massachusetts, Amherst, MA 01003. It is very important that you reference the position number to which you are applying. Positions to be filled contingent upon funding. The position numbers are as follows:

Ecological Physiology R32351 Endocrine Disruption R32352 Plant Metabolism R32353

Evaluation of applications will begin on December 10, 2007 and continue until the positions are filled.

The University of Massachusetts is an Affirmative Action Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. The Biology Department is aggressive in its efforts to hire candidates who will enhance the diversity and general balance of the faculty and the sciences.

caicedo@bio.umass.edu caicedo@bio.umass.edu

UNewOrleans EvolBiol

Multiple Tenure-Track Positions in Biological Sciences

As part of a major initiative to strengthen our department, The Department of Biological Sciences at The University of New Orleans invites applications for multiple, tenure-track positions at the Assistant Professor level in these areas: Ecology/Evolutionary Biology, Physiology, and Biochemistry/Molecular Biology. We especially seek applications from broadly trained individuals with research interests that span traditional disciplines within biology. Successful candidates will be expected to develop vigorous, extramurally-funded research programs, to fully participate in the Ph.D. program in Conservation Biology (Ecology/Evolutionary Biology and Physiology positions) or in a new interdisciplinary Ph.D. program in Biochemistry, and to contribute to undergraduate education. Applicants must have a Ph.D. and postdoctoral experience.

Submit a letter of application stating which position is sought, a curriculum vitae, statements of research and teaching interests, and names/contact information for three letters of reference to Steve Johnson (sgjohnso@uno.edu) or mail to: Biology Search Committee, Department of Biological Sciences, University of New Orleans, LA 70148, Telephone 504-280-6307, FAX 504-280-6121. Review of applications will begin December 1, 2007, and continue until all positions are filled. For more information about the Department of Biological Sciences see <http://biology.uno.edu/>. UNO is an EO/AA employer.

Nicola M. Anthony, Assistant Professor, Department of Biological Sciences University of New Orleans 2000 Lakeshore Drive New Orleans LA 70148

Tel. (504) 280-1362 Fax. (504) 280-6121 Email: nanthony@uno.edu

Nicola Mary Anthony <nanthony@uno.edu>

UPennsylvania EvolutionaryGenetics

The Department of Genetics at the University of Pennsylvania's School of Medicine seeks candidates for several Assistant Professor positions in the tenure track. Applicants must have an M.D. or Ph.D degree and have demonstrated excellent qualifications in Education and Research. The chosen candidate will need to develop an independent research program.

Applicants interested in any area of genetics are welcome, but those specializing in human genetics or genomics are particularly encouraged to apply. Attractive laboratory space and resources are available. For more information about the department, visit < <http://www.med.upenn.edu/genetics/> > <http://www.med.upenn.edu/genetics/>

Applicants will be reviewed beginning October 15 and accepted until December 1, 2007. Please submit all application materials via email.

The University of Pennsylvania is an equal opportunity, affirmative action employer. Women and minority candidates are strongly encouraged to apply.

Please submit curriculum vitae, a cover letter, a statement of research interests, and 3 reference letters via email to:

Dr. Tom Kadesch:
<<mailto:genfac@mail.med.upenn.edu>> genfac@mail.med.upenn.edu

tishkoff@umd.edu tishkoff@umd.edu

UPennsylvania EvolutionaryGenomics

TENURE-TRACK FACULTY POSITION IN GENOMICS/SYSTEMS BIOLOGY

The Department of Biology at the University of Pennsylvania is seeking to hire a colleague employing genomic-scale methods to study fundamental problems in any experimental system (animal, fungal, plant, microbial). Areas of interest include, but are not limited to: systems-level studies of functional and/or comparative analysis of gene activity or evolution, cellular, developmental or physiological processes, and computational analysis of biological signals or patterns.

Applicants are expected to have demonstrated excellence and productivity in research, and a desire to teach at the undergraduate and graduate levels. We anticipate that this appointment will be made at the Assis-

tant Professor level, but outstanding senior candidates will be given serious consideration. The University of Pennsylvania encompasses a vibrant and collegial group of genomics researchers; if appropriate, appointment will be made jointly with the Penn Genomics Institute and/or suitable departments within the Schools of Arts & Sciences, Medicine, or Engineering & Applied Sciences. Further information about this search, and the Department of Biology can be found at < <http://www.bio.upenn.edu/> > www.bio.upenn.edu.

Applicants are encouraged to email a cover letter, CV, description of research interests and up to three reprints as .pdf files to: <<mailto:GenomicsBiologySearch@sas.upenn.edu>> GenomicsBiologySearch@sas.upenn.edu with Genomics in the subject line. Alternatively, these documents may be sent to: Genomics Search, Department of Biology, University of Pennsylvania, Philadelphia PA 19104-6018. Applicants at the Assistant Professor level should also arrange for at least three letters of reference to be sent to the email address above (as .pdf files) or to the postal address. In addition, a short on-line profile at < <https://fusion.sas.upenn.edu/faculty/-pos/bio/genomics> > <https://fusion.sas.upenn.edu/faculty/-pos/bio/genomics> must be completed by all applicants. Review of applications will begin in late October, and continue until the position is filled.

The University of Pennsylvania is an equal opportunity, affirmative action employer. Women and minority candidates are strongly encouraged to apply.

tishkoff@umd.edu tishkoff@umd.edu

UPuertoRico EvolutionaryGenetics

UPuertoRico.MolecularGenetics

The Department of Biology, University of Puerto Rico, Mayagüez (UPRM <http://biology.uprm.edu>) invites applications for a Tenure-track Position as Assistant Professor in Molecular Genetics, to begin July 2008 or until position is filled. A Ph.D. degree is required. Preferred qualifications are a strong background in cell cycle biology or human genetics. Candidates must demonstrate teaching skills for undergraduate and graduate courses including Genetics and Eukaryotic Molecular Genetics, and the ability to design and develop courses in area of specialty.

The successful candidate will be expected to develop

an active research program. Collaboration with other faculty as well as both undergraduate and graduate students is desirable. External funds, if obtained, will allow eligibility for release time and additional compensation during the academic year and/or summer. UPRM is a Land-Grant, Sea-Grant, and Space-Grant institution; interaction with faculty and researchers in these fields is encouraged. Puerto Rico represents a suitable setting to develop research in tropical systems, and the University of Puerto Rico stimulates collaboration with active faculty and students in a wide range of the Biological Sciences and Biotechnology. Benefits include health insurance, relocation costs (if applicable), and tuition waivers in the UPR system for immediate family members. Knowledge of English and Spanish or a willingness to learn is desirable. For more information, please contact:

Dr. Lucy Williams Department of Biology University of Puerto Rico, Mayagüez PO Box 9012 Mayagüez, PR 00681 USA

E-mail : lwiliams@uprm.edu Phone : 787-265-3837
Fax : 787-834-3673

Nico Mario Franz <franz@uprm.edu>

USussex FieldAssist SpainWasps

– VOLUNTEER FIELD ASSISTANT sought for 4-5 months starting mid March 2008, to help with a study of paper wasp (Polistes) behavioural ecology in southern Spain. If suitable candidates apply, it may be possible to split the work into 2 x 2.5 month periods. The work will involve helping a postdoctoral researcher to census and observe colonies as part of experiments to elucidate the basis of helping behaviour in these wasps, which live in small colonies of <100 individuals. The successful applicant must be prepared to work hard and have an interest in behavioural/evolutionary biology and enthusiasm for fieldwork: excellent experience of insect behavioural ecology will be obtained. A driving licence and any ability to speak Spanish would be an advantage. Because the work involves recording colour marks on individual animals, the job would not be suitable for someone who is colour-blind. Our research group has recently moved to Sussex University (<http://www.sussex.ac.uk/biology/profile115853.html>). Our main website is not yet on-line at Sussex, but can still be viewed at our previous university to get an idea of the research that we do (

biology/academic-staff/field/field.htm).

Air fare (from the UK) and accomodation expenses will be provided, with the applicant needing to pay for only their own food/personal expenses, which are relatively cheap in Spain. Accomodation will be a room in a flat shared with the postdoctoral researcher and/or other members of the research group - shower, cooking facilities, TV etc., and is in a medium-sized coastal town with nice beach. Applicants must be available for interview at Sussex University, and review of applications will begin immediately and continue until the position is filled. Send a covering letter and CV, including contact details (including e-mail addresses/tel nos.) for the applicant and 2-3 referees who would be available to provide references during the next 2-3 weeks. Post or email (as a single Word document) to: Prof Jeremy Field, Department of Biology and Environmental Science, School of Life Sciences, John Maynard Smith Building, University of Sussex, Brighton BN1 9QG, UK (j.field@sussex.ac.uk).

Professor Jeremy Field Department of Biology and Environmental Science School of Life Sciences John Maynard Smith Building University of Sussex Brighton BN1 9QG, UK

Phone: 01273 877135 (ext.7135)

j.field@sussex.ac.uk j.field@sussex.ac.uk

UtahStateU EvolutionaryPhysiology

Evolutionary Physiology Department of Biology Utah State University

Assistant Professor [tenure-track; 9-month appointment; Research and Teaching] in the Department of Biology, Utah State University (<http://www.biology.usu.edu> < <http://www.biology.usu.edu/> >)

We seek an animal evolutionary physiological ecologist whose research addresses whole organism responses to anthropogenic and natural stressors in the environment, with an emphasis on the ecological and evolutionary implications of these responses. Preference will be given to applicants whose research complements established programs in community ecology, physiology, fisheries ecology, macroecology, evolutionary biology, functional genomics, and conservation ecology within the Biology Department (www.biology.usu.edu < <http://www.biology.usu.edu/> >) and the Ecology Center

(www.usu.edu/ecology/).

This is a 9-month, tenure track, position with approximately equal emphasis on teaching (undergraduate and graduate) and research. A Ph.D. is required, and evidence of proficiency in both teaching and research will be used as selection criteria. The successful applicant will be expected to establish and maintain an externally funded research program. Teaching responsibilities may include a course in Comparative Animal Physiology and a graduate course in Physiological Ecology.

Applicants must apply using the online system at: <http://www.usu.edu/hr/> . Applicants are required to submit: a letter of application stating qualifications and fit to this position, statements of research and teaching goals, curriculum vitae, and names and contact information of three references. Applications will only be accepted through the online system but for further information and inquiries, please contact Keith Mott, Search Committee Chair, kmott@biology.usu.edu . Review of applications will begin 14 December 2007 and continue until the position is filled.

Utah State University (USU) is a Carnegie-I research institution of over 20,000 students, nestled in a semi-rural mountain valley 80 miles north of Salt Lake City. USU is an affirmative action/equal opportunity employer, with professional spousal accommodation packages available for dual-career applicants. The University was recently chosen as a National Science Foundation ADVANCE Gender Equity Program recipient and is dedicated to recruiting stellar candidates from a diverse pool including women and minorities. Housing costs are at or below national averages, and the community provides a supportive environment for families and balanced personal/professional life. USU offers competitive salaries and outstanding medical, retirement, and professional benefits (see <http://www.usu.edu/hr/> for details).

Michael E. Pfrender Ph.D. Associate Professor Department of Biology Utah State University 5305 Old Main Hill Road Logan, UT 84322-5303

Ph# 435-797-7623 Fax# 435-797-1575

prvs=pfrender8c3ae01@biology.usu.edu

UVirginia EvolutionaryMicrobiol

Assistant Professor, Microbiologist Department of Biology University of Virginia, Charlottesville, Virginia

The Department of Biology at the University of Virginia has an opening for a tenure track Assistant Professor beginning August 25, 2008. Applications are invited from outstanding individuals studying fundamental aspects of microbiology at the molecular, cellular, organismal or systems level. Our Department (<http://www.virginia.edu/biology/>) spans a broad range of interests including cell and developmental biology, morphogenesis, neurobiology, biological timing, and evolutionary biology.

The successful candidate is expected to establish a vigorous, independent, and externally-funded research program, interact with one or more existing departmental strengths, and contribute to undergraduate and graduate instruction and training in Microbiology. A generous startup package and excellent research facilities are available.

Please apply through the University of Virginia online application system at: <http://jobs.virginia.edu/applicants/Central?quickFind=53210>. Please attach your Curriculum Vitae, a statement of current and future research interests and a statement of teaching experience and goals. Please have three letters of recommendation also submitted to: biosearch@virginia.edu.

Inquiries about the position may be e-mailed to biosearch@virginia.edu. Review of applications by the committee will begin December 1, 2007. The position will remain open until filled. Women and members of underrepresented groups are encouraged to apply. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

lgalloway@virginia.edu lgalloway@virginia.edu

YorkU Evolutionary Genetics

Please note that the job deadline is very soon!

Position	Information	Position Rank:	Full	Time
Tenure	Stream	- Assistant	Professor	Disci-

pline/Field: Evolutionary Genetics/Genomics and Cellular and/or Molecular Biology: 2 positions
 Home Faculty: Science and Engineering
 Home Department/Area/Division: Biology
 Affiliation/Union: YUFA
 Position Start Date: July 1, 2008
<http://webapps.yorku.ca/academichiringviewer/viewposition.jsp?positionnumber=938>
 The Department of Biology invites applications for two tenure-track appointments at the Assistant Professor level, in the areas of 1) Evolutionary Genetics/Genomics and 2) Cellular and/or Molecular Biology, to commence July 1, 2008. Of particular interest are individuals whose proposed research programs complement and extend existing research activities in this area in the department. The successful candidates will have a Ph.D., postdoctoral experience, an outstanding research record, and will be expected to develop strong, externally funded research programs. The successful candidates must be eligible for prompt appointment to the Faculty of Graduate Studies.

All York University appointments are subject to budgetary approval.

York University is an Affirmative Action Employer. The Affirmative Action Program can be found on York's website at www.yorku.ca/acadjobs or a copy can be obtained by calling the affirmative action office at 416-736-5713. All qualified candidates are encouraged to apply; however, Canadian citizens and Permanent Residents will be given priority.

Applicants should forward (as hard copy only) a curriculum vitae, an outline of their research plans, a statement of teaching interest and experience, single copies of three publications and three signed letters of reference to:

Chair (designate area), Search Committee, Department of Biology, Rm 247 Farquharson Building York University, 4700 Keele St., Toronto, Ontario M3J 1P3

The deadline for receipt of applications is November 30, 2007.

Posting End Date: November 30, 2007

– Dr. Joel S. Shore Prof. Biology York University
shore@yorku.ca shore@yorku.ca



Other

AFLP Micro scoring software	66	LargeSample Theta estimates	72
AFLP Micro scoring software answers	66	MacOSX PopGenet software	72
Arctostaphylos uva-ursi collections	67	M statistic	72
Arenaria grandiflora samples	68	Msvr software input	73
Artemisia biennis samples	68	MULTIDIVTIME helper	73
Batch runs of STRUCTURE answers	68	Polyploid micros	73
Clusters in trees	69	R library allozyme data	74
Conservation experiences	69	Salamander FieldAssist	74
Copy Youtube videos for lectures answers	70	Shark samples	74
Copy Youtube videos for lectures answers 2	70	Software BAPS 5 1	74
Drosophila tolteca samples	70	Software GenClone 2 0	75
EvolRates MetaAnalysis	71	Software Level-2-TreeFinder	75
GiantClam micros	71	Software TESS post-processing	75
HAD-GT12 system	71	Sylvia atricapilla feather isotopes	76
HFC meta-analysis	71	Terrapin MHC primers	76
Job trends survey 2	72		

AFLP Micro scoring software

Our labgroup is looking to upgrade our AFLP/Microsatellite analyzing / scoring software. We are wondering if anyone has used the following programs and how they perform compared to the much pricier GeneMapper by ABI.

-GeneMarker (SoftGenetics, LLC) -STRand (UC Davis, <http://www.vgl.ucdavis.edu/informatics/STRand/index.html>) -Genographer -Any others?

Many Thanks! Krissa Skogen

PhD Candidate University of Connecticut
krissa.skogen@uconn.edu

krissa.skogen@huskymail.uconn.edu

AFLP Micro scoring software answers

Hello everyone,

I've collected all the responses I got to my AFLP/Microsat Scoring Software post..... Hope this helps others out there!

Krissa Skogen University of Connecticut

Of the ones you listed, I only know GeneMarker. I am currently using it and not very impressed with that software; I definitely prefer GeneMapper. GeneMarker does not allow setting up a project and adding samples with time. Every time you add a sample, you need to start all over again with the analysis. Very cumbersome! I recently saw the software that comes with the Beckman Sequencers. I am not sure if it is available otherwise or it only works with the Beckman System, but it looked very user friendly and versatile to me.

I have been using GeneMapper for microsats. I like it fine and the support is good but I have not been able to totally automate the allele calling. I am certainly no molecular wizard (just another ecologist wannabe), but in general I am happy with it. Best, Laura Meyerson

I have used both Genemarker (for microsats and AFLP) and Genemapper (for microsats).The softgenetics inc software is far better (easier to get started, more intuitive, better structured) than the ABI software, and their customer support is far better too!...I tend to think ABI 'rest on their laurels' because they have such a large market share. I would go Softgenetics

If your lab use ABI genotyper then GeneMapper is the best choice based on its function and convenience. But it is very expensive.

GeneMarker is probably the best choice based on the compromising functionality and price. You can

download a trial version and PDF manual from <http://www.softgenetics.com/downloads.html>. GeneMarker also supports different file formats of generated from the genotypers of other brands <http://www.softgenetics.com/GeneMarker.html>. Don't use GelCompar II (Applied Maths). It is user-unfriendly and very limited on number of lanes (about 150 lanes) in an analysis. This software transforms the curve signals of genotypes to a gel image file manually. You have to set molecular weight of internal standards for each experiment. ... many other drawbacks can make you crazy when you are scoring AFLP of large sample size.

We use genemarker and are very happy with it. It has a couple of twitches which make it a little frustrating from time to time. For example after you have set up locus rules, you may want to add an allele that you didnt see before. Most times you can click the allele and add it to the locus, but other times (maybe 5% of the time) it wont let you.... but the cost makes it worthwhile!

we've used GeneMapper, STRAND, and GeneMarker; I'd say for the average project GeneMarker is hands-down the easiest and extremely powerful, well worth its somewhat cheaper price (relative to GeneMapper).

I was in similar situation earlier this year and decided to go for GeneMarker. And I'm quite happy with that. GeneMarker is capable of processing large number of samples, has automatic scoring option and allows manual editing. You can ask for a fully functional trial version (30days) and the technical support is very good. There are little things (with displaying, sorting, editing etc) that I would personally prefer to work differently, but they are planning some development on the software soon, so there might be some improvements soon. So can recommend :-)

I'm facing the same problem and was going to get genographer, which does not do any automated scoring.. so please let me know if you hear something better! thanks

You might like to consider Applied Biosystem's free software - Peak Scanner - available from their website. I've only just downloaded it so can't give you a verdict on its usefulness but I could rapidly input datafiles and see the peak traces.

I haven't had much luck with STRand, particularly with the newer capillary equipment files.

I highly recommend Genographer for AFLP analyses - I found it worked really well, and is free! Do keep in mind though that you have to run the raw ABI data through GeneScan (to define the ladder) before importing data into Genographer....

Sorry I can't offer microsat advice - I've always used GeneMapper....

I recommend GeneMarker. I have used it extensively for AFLPs and I think that it has a very flexible set of tools and is very user- friendly. Also, support from SoftGenetics is quite nice.

— / —

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>

Arctostaphylos uva-ursi collections

Dear Colleagues,

We are undertaking a study of the population genetics/phylogeography of *Arctostaphylos uva-ursi* within the greater context of a phylogeny of the genus. Funding is limited, particularly for travel. We are appealing for sample collections from populations of this taxon throughout its large, circumboreal range (with a disjunct population in Guatemala). Ideally, we would like 20 plant samples/population sent either on ice or in silica gel. We would appreciate any assistance, so even if you can only send samples from one population, we would be most grateful!

Please let us know if you will be able to help with this project. Samples should be sent to the address below. Thank you for your consideration.

Sincerely,

Kristina Schierenbeck, CSU Chico Tom Parker, San Francisco State University Andy Simpson, CSU Chico graduate student

Kristina A. Schierenbeck, Ph.D. Professor of Botany, Herbarium Director California State University, Chico Department of Biological Sciences Chico, CA 95929-0515 530.898.6410 kschierenbeck@csuchico.edu

"I have never let my schooling interfere with my edu-

cation” - Mark Twain
KSchierenbeck@csuchico.edu

“Engelkes, Tim” <T.Engelkes@nioo.knaw.nl>

Arenaria grandiflora samples

Dear Evoldir members,

I work on genetic diversity of *Arenaria grandiflora* (Caryophyllaceae) in its low altitude distribution range in France (Loire valley and Ile-de-France). However, I would be interested to examine some samples from a broader range in Europe, especially those from higher altitude (Alps or Pyrenees) or other European sites. If anyone has access to specimens (leaf (fresh or dried) material or genomic DNA) and would be willing to share with us, I would be grateful to obtain some samples. Please contact me (zavodna@mnhn.fr) for further info and mailing instructions.

thanks in advance,

Monika

– Monika Zavodna CERSP, UMR5173 Museum National d’Histoire Naturelle 61 rue Buffon 75005 Paris, France phone: +33 (0)1 40 79 3453 email: zavodna@mnhn.fr

Artemisia biennis samples

Artemisia Biennis Seeds

Dear all,

Currently I am designing an experiment in which I like to include the plant species: *Artemisia biennis*. In particular I would need the following:

Seeds from *Artemisia biennis* originating from North-Asia.

Is there anyone who could provide me the seeds or any good contact in Asia?

Thank you very much.

Tim Engelkes Biological Invasions Netherlands Institute of Ecology (NIOO-KNAW) Department of Multi-trophic Interactions t.engelkes@nioo.knaw.nl <mailto:t.engelkes@nioo.knaw.nl>

Batch runs of STRUCTURE answers

Dear all,

I received requests for the answers to my STRUCTURE Batch run problem so below I have pasted 7 different solutions sent by different persons. Thanks to everyone (Anne Duputié¹/₂, Tomas Hrbek, Xianfa Xie, Alan Meerow, Alan Wilton, Robert H. Kraus, Alain Frantz, Elizabeth, Ji¹/₂rg Bri¹/₂n, Pamela Wiener) for their attention to that problem.

1- I had the same problem, regardless of the version of Structure, but it disappeared when I put my working directory (the one with the datafile and where structure has to put its results) at the root of the computer (on the same disk as the one where Structure is installed).

2- I have encountered the same problem as you. It only occurs with version 2.2, version 2.1 is behaving normally. About three months ago I wrote to Pritchard about it, but never got a response. What I think is going on is that some of the Java routines are not getting initialized correctly by Structure, and so it does not execute properly. I have solved this by running another Java based program first. I usually run FigTree from Beaumont. Next time I open Structure it executes normally. I do not know if you have encountered this as well, but Structure 2.2 will not initialize from the shortcut, but has to be started directly from the .bat file.

3- I once experienced some similar problem. It seems that the program just did not get started successfully at the very beginning possibly due to some glitch in the program. I restarted the program and tried again, that usually solved the problem for me.

4- I also had the exact same problem on two different machines, and got in touch with Pritchard’s programmer - he made a suggestion, which didn’t seem to overcome the problem (check and see if an updated version has been posted - I haven’t). His suggestion is sitting on my work computer - I am home and can’t access those archived emails. I did a partial workaround by only specifying half of my desired k values in the batch - then the batch run went to completion. I then did the second half, also without a problem. Don’t know if there is some issue past a threshold value for the num-

ber of jobs in batch runs, but try my workaround and see if it succeeds on your machine.

5- I find there are some values of K for some runs it just won't run for. eg it will do a run with K values 1 to 7 and it works but not if I do K = 8 but will work for K=9 ? So just try dropping a few K values.

6- I also remember having trouble with Structure like this. In my case I had a large dataset and a high k to run. When I tried that, the smaller k's ran without a problem, but the larger k's, from a certain point just did nothing. The problem was allocated system memory. There is the structure.bat file in the main directory of structure. If you open that with an editor, it will say something like: `java -Xmx256m -classpath class\structure.jar RunStructure` This "Xmx256m" part was my problem last year. It says, it will allocate 256MB of RAM to the software, which was not enough for larger datasets. I changed it to "Xmx1024m" and it worked. It was structure 2.1.

7- I have had a similar problem of batch runs in STRUCTURE not starting. If you just close and re-open STRUCTURE, re-open the project and start another batch job, it should start the second time time round. Or at least it did when I tried it.

In my case, with my original installation, solution 2 to 7 did not work. I then tried solution 1. I have three hard drives and installing Structure on 2 of them (working directory and structure.exe on the same hard drive) did not work. Installing Structure on the third one worked but not all the time. I sometimes have to start again the program for the Batch run to work.

Thanks again

Sebastien.

-

Sébastien Puechmaille UCD School of Biological and Environmental Sciences University College Dublin (Zoology) UCD Science and Education Research Center (West) Belfield Dublin 4 Ireland

<http://batlab.ucd.ie/~spuechmaille/> <
<http://batlab.ucd.ie/%7Espuechmaille/> >

s.puechmaille@gmail.com

Clusters in trees

Dear EvolDir members,

A typical problem is how to detect clusters of elements/branches in a tree (phylogenetic or otherwise) that contain a statistically significant, higher than expected number of elements that share a particular feature. In a recent paper, Antonio Marco and myself have developed a new strategy to efficiently detect those significant clusters. The strategy has broad applications. We show it can be applied to trees derived from microarray data, trees derived from graphs of protein-protein interactions, etc but it is obviously also useful in an evolutionary context. The title of the paper is "A general strategy to determine the congruence between a hierarchical and a non-hierarchical classification". It has appeared published today and it is available at <http://www.biomedcentral.com/bmcbioinformatics>. A PERL script that performs the analyses for trees up to 500 - 1000 elements can be freely downloaded from our webpage: <http://www.uv.es/~genomica/treetracker/>. Any comment on the strategy or the program will be appreciated.

Best

Ignacio Marin Instituto de Biomedicina de Valencia. CSIC. Valencia. Spain.

ignacio.marin@uv.es

Conservation experiences

Dear EvolDir members,

I would be grateful for experience reports from members who have participated in the "Conservation and Land management Fellowship Program", which is offered by the Chicago Botanic Gardens in collaboration with the Bureau of Land Management, National Parks Service and the USDA Forest Service.

Apart from general experience reports and internship "ratings", I am especially interested to find out whether (and how) non-U.S. interns obtained the necessary visa. I am keen on applying for this internship, however last year Chicago Botanic Gardens was not prepared to assist in visa application, although their "signature" is necessary to obtain the visa- working permit for interns in Germany.

I would be very glad to hear from former interns, as "inside" information and valuation about the program will help me to decide whether I am prepared to (and maybe how to) tackle the difficult and expensive process of visa/working permit application.

Please reply to maikebraemer@web.de [mailto:maikebraemer@web.de]. Any help would be greatly appreciated.

Cheers,

Maike

Maike Braemer

Rheinische-Friedrich-Wilhelms-University Bonn Institute of Zoology Department of Neurophysiology Poppsdorfer Schloss 53115 Bonn, Germany

phone: +49- 228- 735473

maikebraemer@web.de maikebraemer@web.de

Copy Youtube videos for lectures answers

Greetings Evolutionists,

A while back someone asked how to copy Youtube videos so that you can use them in lectures. I just found one way to do it. Here it is step by step.

- 1) Use Firefox, go to <https://addons.mozilla.org/en-US/firefox/search?q=3Dvideo&status=3D4> and install the addon Fast Video Download 1.3.1.4. Note that many of the others listed there are junk and did not work for me.
- 2) When you restart Firefox a tiny little icon of a webpage with a gold arrow will appear at the lower left hand corner of your browser window.
- 3) Go to your favourite Youtube webpage (Here is nice 6 second video of an Odonta hunting if you want to trouble shoot: <http://www.youtube.com/watch?v=-3DA9Q8gUTmyd8>)
- 4) Click on the icon and it will be downloaded where you choose as a .flv file.
- 5) To convert .flv files to something that you can actually view, download and install the free program [freez.flv2avi.exe](http://www.brothersoft.com/-dvd.video/video.conversion/flv.to.avi.mpeg-wmv_converter.download.59438.html) (http://www.brothersoft.com/-dvd.video/video.conversion/flv.to.avi.mpeg-wmv_converter.download.59438.html) Our Sophos antivirus software didn't show any problems when I scanned the file, but I would double check it given that it is free.
- 6) Run the program and save your video as avi, mpeg or wmv!

Cheers,

Joel

Dr. Joel Parker Lecturer Neurosciences and Ecology and Evolution Groups School of Biological Sciences University of Southampton Southampton, SO16 7PX United Kingdom

Email: jdarker@soton.ac.uk Office Phone: +44 (0)23 8059 9007 Cell Phone: 0791 222 1328 (Voice Mail/Text) Fax: +44 (0)23 8059 4459 Website: <http://www.sbs.soton.ac.uk/staff/jdp/jdp.php> <<http://www.sbs.soton.ac.uk/staff/jdp/jdp.htm>>

J.D.Parker@soton.ac.uk

Copy Youtube videos for lectures answers 2

Mac users:

Steps 1-4 work well for Mac Firefox, as do other addons. But Steps 5-6 do not work on a Mac. Suggest VisualHub (<http://www.techspanion.com/visualhub/>) for this purpose.

An entirely different Mac approach is via Screen Mimic (<http://www.polarian.com/>), wherein you simply play the video you wish to capture (which need not be YouTube), start the recorder, and a corresponding local file is created. It can capture audio too. The captured file can be edited, for example, in Quicktime Pro.

Dr. Martin E. Feder E-Mail: m-feder@uchicago.edu

Martin Feder <m-feder@uchicago.edu>

Drosophila tolteca samples

Hello,

I'm wondering if anyone has any *Drosophila tolteca* flies? I need about 4 vials of (if possible) recently collected non-isofemale lines for an experiment I'm conducting. Please contact me at s.fahle@sheffield.ac.uk if you work with this species and could post me some.

Cheers Sarah Fahle

S R Fahle <S.Fahle@sheffield.ac.uk>

EvoRates MetaAnalysis

Hello EvoDir members,

I am working in collaboration with other members of Andrew Hendry's lab to expand a database on evolutionary rates. The existing database was analyzed for a manuscript that is currently "Online Early" at Molecular Ecology (Hendry, Farrugia, and Kinnison. Human influences on rates of phenotypic change in wild animal populations).

I am sending this request for papers (published or not) or unpublished data that could be used for evolutionary rate calculation for a meta-analysis. Our criteria are as follows:

- 1) wild populations of any organism (measurements from common garden experiments are ok too)
- 2) Either: a) phenotypic measures in two or more populations that shared a common ancestor at a known time (years and/or generations) in the past, or b) phenotypic measures in a lineage at different points in time
- 3) mean phenotypic measurements, as well as measures of variation around the means (e.g. SD, SE) and sample sizes. If the latter are not available, just the means are fine. Raw data is also appreciated.

If you have a study that meets the above criteria, we would be happy to include it in our database. You will be appropriately acknowledged for any data that we use.

Please contact me if you have further questions, Erika erika.crispo@mail.mcgill.ca

Erika Crispo, PhD candidate McGill University, Department of Biology <http://www.biology.mcgill.ca/grad/erika/index.htm> erika.crispo@mail.mcgill.ca

GiantClam micros

Dear Evodir, I am planning to start a project on giant clams in the Pacific and I was wondering if there were available microsatellite loci available for *Tridacna maxima*, *Tridacna squamosa*, *Tridacna crocea* or *Hyp-*

popus hyppopus. I have not find any microsatellite published to date (Genbank or Molecular Ecology Notes microsatellite bank), but maybe I missed some references or someone is currently working on developing microsatellites for one of these species? Any help would be greatly appreciated? Thanks in advance, Cheers Cecile Please reply at cecile.fauvelot@unibo.it

—
cecile.fauvelot@unibo.it

HAD-GT12 system

Has anybody used the HAD-GT12 System from eGene, Inc for AFLP analysis? Any input about this system would be appreciated because I'm thinking about buying one.

Thanks, Greg

Greg W. Douhan, Assistant Professor Department of Plant Pathology and Microbiology Fawcett Lab RM 238 University of California Riverside, CA 92521-0122 Office (951) 827-4130 Fax (951) 827-4132

gdouhan@ucr.edu gdouhan@ucr.edu

HFC meta-analysis

Dear EvoDir members

In 2003 David Coltman and Jon Slate published a meta-analysis of papers studying heterozygosity-fitness correlations (HFCs) in wild populations (Coltman and Slate 2003 Microsatellite measures of inbreeding: a meta-analysis. *Evolution* 57:5, 971-983). In collaboration with David and Jon, as well as Ben Sheldon, I am now seeking to update and expand this meta-analysis. In order to assuage any possible publication bias in the literature, I would very much like to include relevant unpublished studies.

As such, if you have any HFC results that fit the criteria listed below, but have not yet published for whatever reason, I would be very interested in hearing from you. All results will be held in strictest confidence, and only summary data published. Furthermore, anybody contributing to this work will be fully acknowledged. I am

interested in results that fit the following criteria: - wild population(s) - genetic diversity measured by at least one of the following measures of inbreeding: heterozygosity (H), standardised heterozygosity (SH), mean d2, internal relatedness (IR), or homozygosity by loci (HL) - data on at least one life-history or morphometric trait available - information about population size, demography and/or mating system would also be very useful.

Please don't hesitate to get in touch if you require further details. Many thanks, Joanne Chapman

Graduate student EGI University of Oxford
joanne.chapman@zoo.ox.ac.uk

Jo Chapman <joanne.chapman@zoo.ox.ac.uk>

Job trends survey 2

We have had a tremendous response to our survey in very short period of time. We would first like to thank everybody that has participated so far and encourage those of you who have not to do so. We would like to clarify one aspect of the survey. In the instructions we stated $i_{\frac{1}{2}}$ Please answer questions as appropriate at the time of your hire $i_{\frac{1}{2}}$ but this was not written in bold text and was very easy to miss. This has led to some confusion on questions asking about your number of publications. Please indicate the number of publications you had at your time of hiring. Also to help decrease the time it takes to do the survey I have included a quick link to a list of impact factors below.

Based on the many enthusiastic emails I have received it appears there is a real need for the dissemination of these kinds of data. In fact, many excellent suggestions have been made to expand the questions to include starting salaries, extending hiring time periods, inclusion of government and non-profit jobs, etc. These are all things we will be considering for a second survey. Thanks again to all those who have and will be participating.

Link to web site of impact factors- <http://www.bio21.bas.bg/ibf/IF99.txt> Survey link: <http://FreeOnlineSurveys.com/rendersurvey.asp?sid=-02qabm52zm9s4rg353289> Jonathon C. Marshall, PhD. 351 W. University Blvd. Dept. of Biology Southern Utah University Cedar City, UT 84720

Phone (435) 586-7927 Fax: (435) 586-8605

Home page: <http://www.geocities.com/>

jcmarschall_species/Research.html Science Blog:
http://geocities.com/jcmarschall_species/blog.html
jonathon_c_marshall@hotmail.com

LargeSample Theta estimates

Hi,

I would like to know if there is an algorithm or a software that can calculate theta K on large sample sizes (over 600 samples) ?

Thank's,

Clomoreau

claudia.moreau@recherche-ste-justine.qc.ca

MacOSX PopGenet software

Dear Evoldir,

I am trying to find "user-friendly" population genetics programs that run in a Mac OSX environment. More specifically I am interested at the moment in running tests of neutrality in DNA sequences, however if it has more functions the better. Something like DnaSP but for Macs. Can any of you recomend any software? Thank you all.

Best wishes,

Ramiro

Dr. Ramiro Morales-Hojas Molecular Evolution Lab
IBMC Rua do Campo Alegre 823 Porto 4150-180 Portugal

e-mail: rmhojas@ibmc.up.pt

rmhojas@ibmc.up.pt

M statistic

Dear Evoldir,

I'm trying to run M-statistic (M_P_Val.exe and Critical_M.exe) and I'm experiencing some problems. I'm not able to run the executable once I've downloaded to a separate folder (on a Mac). I've also checked several times the infile to be sure that was not causing any problem.

Can anyone help me with this minor question?

Thank you for your time Best regards

Sara Mira, Phd Postdoctoral research fellow email: [HYPERLINK "mailto:smira@ualg.pt"smira@ualg.pt](mailto:smira@ualg.pt)
[HYPERLINK "http://www.ualg.pt/fcma/edge/web/-"](http://www.ualg.pt/fcma/edge/web/-)
www.ualg.pt/fcma/edge/web/

Sara Mira <smira@ualg.pt>

Msvar software input

Dear all,

I want to use msvar (the updated version, described in Storz and Beaumont 2002 (Evolution 56: 154-166), which enables to get estimates of N0 and N1). It seems I have a problem with my input files, and many trials of modifications of many sorts did not help me figuring out what is wrong.

My pb is: when I double-click on the .exe file to run the program, the dos window closes as soon as it opens, and I get an error message saying "error:: ploidy is wrong". I know there is no problem with the ploidy nb I entered, and don't understand what is going on.

If anyone has already had this kind of problem, I would be very grateful if they would share their experience with me.

Aurelie Coulon.

email: ac462@cornell.edu

– Aurélie Coulon Postdoctoral Associate Evolutionary Biology Cornell Laboratory Of Ornithology 159 Sapsucker Woods Road Ithaca, New York 14850
 Tel: +001 (607) 254-1138 Fax: +001 (607) 254-2486 www.birds.cornell.edu/evb ac462@cornell.edu
ac462@cornell.edu

MULTIDIVTIME helper

Dear Evoldir folks,

We have created a perl script that facilitates the estimation of divergence times using MULTIDIVTIME program. This script links baseml, paml2modelinf, estbNew, and multidivtime programs, and asks you for information to create the control files for baseml, and multidivtime. Before running multidivtime, this script also creates a file containing a tree (in Newick format) with the number of the nodes as labels. This file can be opened in Treview, in order to easily assign calibration points.

We also know that most of the time sequence format is a terrible headache, so we have also created a perl script to transform fasta alignment files into files that are compatible with baseml, estbNew, and multidivtime so that they can be analyzed by these programs without problems.

These scripts can be obtained at www.biokubuntu.com (click in enclases). If you find any problems please let us know.

Federico G. Hoffmann (federico@biokubuntu.com)

Juan C. Opazo (jopazo@biokubuntu.com)

jopazo@vacalactica.com

Polyploid micros

Hi all, We are analyzing microsatellite data from a tetraploid, and are wondering if anyone has coded assignment tests for polyploids (e.g. something other than GENECLASS2 and IMMANC). One possibility would be to use AFLPOP, since with tetraploids there isn't true codominance. We'd appreciate any thoughts or suggestions. Thanks, Ruth

Ruth A. Hufbauer BSPM, GDPE, PRIMES Colorado State University Fort Collins, CO 80523-1177

Office: C147 Plant Sciences 970-491-6945 Labs: E113 & E115 Plant Sciences 970-491-5984 Fax: 970-491-3862 <http://lamar.colostate.edu/~hufbauer/> <http://www.invasionsrcn.org/> hufbauer@lamar.colostate.edu

R library allozyme data

Dear colleagues,

I am searching for R library suitable for handling of allozymes data. Could you help me?

Thanks in advance

Patrik Mraz

patrik.mraz@upjs.sk

Salamander FieldAssist

Dear EvolDir Members,

PLEASE POST WIDELY to undergraduates and others who may be interested in doing some fieldwork in the coming year.

I am looking for volunteer field assistants for a project on long-toed salamanders in the Pacific Northwest. The field season will start as early as mid-January and run until the end of August. Field assistants will locate and catch salamanders, take notes and help with various procedures.

Benefits:

1) Get experience in the field 2) Great for outdoors enthusiasts as there is lots of hiking, camping, etc. involved 3) A way to see some neat places in the Western United States and Canada 4) Expenses paid 5) Opportunities for credit and/or an independent project can be discussed

Requirements:

1) US or Canadian citizenship (or Visa to work/study in either country) 2) At least one month time commitment

If interested, please contact Julie Lee-Yaw at lee-yaw@zoology.ubc.ca for more information and to obtain an application form.

Thank you.

Julie Lee-Yaw

julie.lee-yaw@elf.mcgill.ca julie.lee-yaw@elf.mcgill.ca

Shark samples

Dear EvolDir,

I am currently working on a widely distributed species of deep-sea shark, *Centroselachus crepidater*. It has recently come to our attention that there is a morphologically very similar species, *Zameus squamulosus*, and that these two species may be easily misidentified in the field. For this reason I was wondering if anyone has any samples of *Zameus squamulosus* that you would be willing to share with us, in order that we can genetically validate our samples before we continue with the construction of the microsatellite library.

Thanks in advance for your help, Sarah

Dr. Sarah Helyar Marine Biodiversity, Ecology & Evolution (MARBEE) Science Centre West University College Dublin Belfield, Dublin 4 Republic of Ireland

email: sarah.helyar@ucd.ie tel. +353 1 7162013/2262 fax. +353 1 7161152

sarah.helyar@ucd.ie

Software BAPS 5 1

After several months of intensive work, BAPS 5.1 software is now finally available for download at: <http://web.abo.fi/fak/mnf//mate/jc/software/-baps.html> The new version contains a multitude of new tools, such as the possibility to run analyses in multiple computers using scripts, possibility to calculate posterior probabilities directly for a set of pre-specified population structures, possibility to run clustering using fixed numbers of clusters specified by the user, etc. Also, we have been able to cut the run time by 80% for the analysis of large data sets. The updated manual contains a list of the new features.

Hope you find the new features useful!

Best, Jukka

bayesian@luukku.com

Software GenClone 2.0

The software GenClone has now been updated and the new version is available at the following link:

<http://www.ccmr.ualg.pt/maree/software.php?soft=genclon> Although designed mainly for clonal organisms, GenClone has proposed resampling procedures to standardize allelic and genotypes richness estimates to the lowest sample size used, which can be of interest for any organism, including non clonal ones.

Besides this general feature, GenClone is designed to analyze population genetics data of haploid or diploid clonal organisms, and performs the following tasks:

1. Discriminates distinct multilocus genotypes (MLGs), and uses permutation and re-sampling approaches to test for the reliability of sets of loci and sampling units for estimating genotypic and genetic diversity. (This is also useful for non-clonal organisms.)
2. Computes statistics to test for clonal propagation or clonal identity of replicates.
3. Computes various indices describing genotypic diversity.
4. Summarizes the spatial organization of MLGs with adapted spatial autocorrelation methods and clonal subrange estimates.

What changes from GenClone 1.1 to GenClone 2.0: The new features from Arnaud-Haond et al. (in press in *Molecular Ecology*, doi: 10.1111/j.1365-294X.2007.03535.x) and Rozenfeld et al. (2007) namely the Pareto distribution, spectrum of microsatellites distances, aggregation index and Edge effect index are implemented in Genclone 2.0

References:

Arnaud-Haond, S. & Belkhir, K. (2007) GenClone 1.0: a new program to analyse genetics data on clonal organisms. *Molecular Ecology Notes*, 7, 15-17. Arnaud-Haond, S., Duarte, C. M., Alberto, F. & Serrão, E. A. (in press) Standardizing methods to address clonality in population studies. *Molecular Ecology*. doi: 10.1111/j.1365-294X.2007.03535.x Rozenfeld, A. F., Arnaud-Haond, S., Hernández-García, E., Eguíluz, V. M., Matías, M. A., Serrão, E. A. & Duarte, C. M. (2007) Spectrum of genetic diversity and networks of clonal populations. *Journal of the Royal Society Interface*, 4, 1093-1102.

Sophie ARNAUD-HAOND <sarnaud@ualg.pt>

Software Level-2-TreeFinder

A new TREEFINDER version is online at:

www.treefinder.de TREEFINDER is a software to compute phylogenetic trees from molecular sequences.

New features are:

- improved tree search algorithm - tree formats extended for edge length intervals - consensus trees with edge length intervals - easier divergence time intervals

There is now a second level of search depth, which is trying up to seven times as many topological rearrangements as the old algorithm. Level 2 is therefore more likely to find best tree, especially when trees are large and likelihood surface is flat.

Please note that I am still not being paid for my work and that I had no income for years. I wonder if somebody finds TREEFINDER worth offering me a compensation, a wage, a position, a perspective.

Gangolf Jobb

Gangolf Jobb <gangolf@treefinder.de>

Software TESS post-processing

Dear evoldir members,

R scripts for plotting two-dimensional maps of membership coefficients are now available from the TESS web page.

An example plot is available here: <http://www-timc.imag.fr/Olivier.Francois/yb2.jpg> These scripts are useful to post-process TESS outputs, and they may also be useful for other programs like CLUMPP, STRUCTURE, BAPS, FASTSTRUCT, etc. The graphics generated by the scripts provide information similar to the standard one-dimensional membership coefficient bar plots, but in two dimensions. These spatial interpolates may be better for data interpretation. In addition they use facilities for overlaying geographical maps.

best wishes olivier

TESS web page: <http://www-timc.imag.fr/>

Olivier.Francois/tess.html Graphical display page: http://www-timc.imag.fr/-Olivier.Francois/admix_display.html Olivier Francois <olivier.francois@imag.fr>

Terrapin MHC primers

Sylvia atricapilla feather isotopes

Hello,

I am trying to analyse possible populations-related differences in the timing of passage of the Blackcap *Sylvia atricapilla* at a stopover site in N Iberia, both in autumn and spring, by means of stable isotopes. Part of this work is based on knowing the isotopic signatures of the breeding populations of known origin. If someone might have samples of feathers of blackcaps taken from known breeding populations from UK, Ireland, Denmark, Belgium, The Netherlands, Norway and Sweden, I would be very grateful to contact you.

Thank you very much in advance,

Juan Arizaga

Juan Arizaga Martínez Departamento de Zoología y Ecología Universidad de Navarra Irúnlarrea 1 E-31080 Pamplona Spain

Tel.: +34 948425600 6281

jarizaga@alumni.unav.es

We are starting a new project looking at MHC variation in the Diamond back terrapin *Malaclemys terrapin*. This is an undergraduate honor's research project. We have scoured the literature for any other studies on MHC in terrapins or any turtle species without success. There are some sequences in GenBank, including MHC class II B sequences, but they are derived from a lab in China, and we are not able to contact the authors. We have designed some degenerate primers based on reptile, amphibian, fish, and mammal sequences, but was wondering if anyone else has been working with any MHC loci in turtles or terrapins, and if so if they would be willing to share their primer sequences with us. In addition, any recommendations or advice on working with MHC in non-model species would also be welcomed.

Thanks in advance,

Shawn

S. Shawn McCafferty Assistant Professor Department of Biology Room 231, Science Center Wheaton College 26 East Main Street Norton, MA 02766-2322

Email: smccaffe@wheatonma.edu Phone: 508-286-5642 FAX: 508-286-8278

smccaffe@wheatonma.edu smccaffe@wheatonma.edu

PostDocs

ArizonaStateU EvolGenetics	77	London Chytridiomycosis	80
BangorU EvolBiol	77	Madagascar Biogeography	81
Cleveland PopGenet of Diabetes	78	Maynooth Ireland HorizontalGeneTransfer	81
DukeU DiseaseModeling	78	McMasterU InfluenzaEvolutionaryEpidemiology	82
HarvardU Economics and evolution	79	Milan EvolGenomics	83
HarvardU EvolOfMorpholgy	79	NotreDameU GeneticIdentification	83
KansasStateU NematodeGenomics	80	Smithsonian EvolBiology	83

Trondheim PlantMolEvol	84	UMontreal HumanPathogenEvolGenomics	91
UArizona VertebrateSystematics	84	UMuenster 3 MolEvol	91
UBritishColumbia EvolMorph MarineProtist	85	UNCChapelHill HostSpecializationEvol	92
UCaliforniaDavis PopulationBiology	85	UOtago KelpPhylogeography	93
UCaliforniaRiverside MicrobialEvolGenomics	86	UPadova EuropeanEelEvol	93
UCaliforniaRiverside RhizobialSymbiontEvol	86	UPennsylvania MathBiology	94
UEdinburgh CoalescentTheory	87	UppsalaU AvianEvolutionaryGenomics	94
UEdinburgh SexualAntagonism	87	UppsalaU SpeciationGenetics	95
UGlasgow ViralPhylogenetics	88	UTexasArlington ApicomplexaEvolution	96
UKentucky WolbachiaEvol	88	UToronto 2 PlantEvolBiol	96
ULausanne StatisticalGenetics	89	UWashington 3 SalmonAdaptation	97
ULaval SpruceGenomics	89	UZurich ThermalAdaptation	100
UMichigan EvolGeneEnvInteractions	90	WilliamsCollege Bioinformatics	98
UMissouri QuantitativeGenomics	90		

ArizonaStateU EvolGenetics

A Postdoctoral position is available in the Center for Evolutionary Functional Genomics at Arizona State University (<http://www.biodesign.asu.edu/centers/efg>). The position is in the molecular and evolutionary population genetics laboratory of Brian Verrelli (<http://sols.asu.edu/faculty/bverrelli.php>), to investigate human and related primate genome data both from the laboratory and available public databases. We are interested in characterizing genome patterns of nucleotide diversity, haplotype structure, and recombination within and between primate populations and species to identify the historical and recent impact of natural selection and demographic change. This research theme is in collaboration with several individuals in the Center for Evolutionary Functional Genomics and at the Arizona State University at large, across the fields of evolutionary genetics, phylogenetics, molecular anthropology, bioinformatics, and computational biology with colleagues such as Sudhir Kumar, Yuseob Kim, Michael Rosenberg, Jieping Ye, and Anne Stone. The successful candidate will have a PhD in computational biology, bioinformatics, genetics, statistics or a related field. A background in the application of statistics to evolutionary genetics would be highly competitive. The candidate will work on projects of their choice, but which are related to the Center's research interests in general.

Applicants must submit (1) a complete curriculum vitae, (2) a 1-2 page research statement, (3) PDF files of at least two reprints (published/in press), and (4) the names and addresses of two references (including e-mail and phone numbers) to Brian Verrelli by email

(brian.verrelli@asu.edu). Review will begin December 1, 2007, and will continue until the position is filled.

Brian C. Verrelli, Ph.D. Assistant Professor Center for Evolutionary Functional Genomics School of Life Sciences and The Biodesign Institute Address: Life Sciences E-315 Arizona State University Tempe, AZ 85287-4501 Tel: 480-965-0398 Fax: 480-965-6899 E-mail: brian.verrelli@asu.edu

bverrell@asu.edu bverrell@asu.edu

BangorU EvolBiol

Bangor University, UK Post-Doctoral Research Assistant Molecular Ecology School of Biological Sciences Grade R & A 1A : £21,478 - £32,147 p.a.

A three-year postdoctoral position is available to provide research assistance to the Head of School of Biological Sciences, Professor G.F.Turner, in the area of speciation, evolutionary biology, genetics and animal behaviour. The focus of the research group is on speciation of African cichlid fishes, for which an increasing amount of molecular information is becoming available, including a full genome sequence. The appointee will join the large, thriving team in the Molecular Ecology and Fisheries Genetics Group (<http://biology.bangor.ac.uk/research/mefgl/>), recently relocated in new purpose-built molecular laboratories in the Environment Centre, Wales, investigating the origins and significance of population and species biodiversity in animals.

Applicants should have a broad interest in evolution, genetics and ecology, excellent writing and interper-

sonal skills, with a strong willingness to work as part of a team, and to work to deadlines on research publications and grant applications. Some experience in the application of molecular genetics or bioinformatics is desirable. The post may be available on a higher salary scale on a part-time basis or for a shorter duration.

Application forms and further particulars should be obtained by contacting Human Resources, Bangor University; tel: (01248) 382926/388132; e-mail: personnel@bangor.ac.uk; web: www.bangor.ac.uk Informal enquiries can be made to Professor George Turner; e-mail: george.turner@bangor.ac.uk, +44-1248-382349. Please quote reference number 07-7/64 when applying. Closing date for applications: Friday 30th November, 2007 Committed To Equal Opportunities

“Turner,George” <george.turner@bangor.ac.uk>

Cleveland PopGenet of Diabetes

I am seeking a highly motivated post-doctoral scientist to study the genetic bases of type-2-diabetes and obesity.

Candidates should have a doctorate or equivalent experience in statistics, quantitative genetics, population genetics or computer science. The successful candidate must have some experience with computer programming (at least PERL, Python or a similar scripting language) and some knowledge of biology. An understanding of genetics and statistics is preferred and a background in experimental biology is advantageous. The successful candidate will primarily analyze large datasets of DNA polymorphisms to characterize the evolution and selective constraints on genes involved in type-2-diabetes or obesity. In addition, the Genomic Medicine Institute / Lerner Research Institute offers an optimal setting to develop new themes of research and productive collaborations. Prospective candidates should send a letter of application including a CV and the name and address (including email and phone) of three references to David Serre, Ph.D. Genomic Medicine Institute Cleveland Clinic Foundation 9500 Euclid Avenue / NE50 Cleveland, Ohio 44195 email: serred@ccf.org

“Serre, David” <serred@ccf.org>

DukeU DiseaseModeling

Funding is available for a postdoctoral associate position with Katia Koelle in the Dept. of Biology at Duke University in Durham, NC as early as Jan. 1, 2008. The position involves the development and application of mathematical and statistical models to understand the ecological and evolutionary patterns of rapidly evolving pathogens. Specific applications include influenza virus in multiple different hosts (including humans), dengue virus in humans, and HIV. Applicants should have (or be expecting) a Ph.D. in Ecology and Evolutionary Biology, Biology, or Applied Math. Experience in mathematical modeling or statistical data analysis is necessary. Previous research in infectious diseases is desired but not required. The ideal candidate would also be familiar with research in the field of complex systems.

Post-doc salary will be commensurate with experience and qualifications. The initial appointment will be for one year. Funding is available for a second year, with continuation depending upon performance. Interested applicants should contact me by e-mail by December 15.

Beyond the important interactions that post-docs will have with ecologists and evolutionary biologists in the Department of Biology, there are also many other resources at Duke that a post-doc studying infectious diseases with me could tap into. Specifically, Duke is home to a recently founded Global Health Institute, a Theoretical Immunology group, a Vaccine Institute, and a Center for Nonlinear and Complex Systems. My lab has established collaborations with several of these groups, and is looking to further these ties. Furthermore, NES-Cent, UNC-Chapel Hill, and NC State are all within half an hour of Duke University, creating a larger academic community in the Triangle Region.

Contact info: Katia Koelle Dept. of Biology Duke University Box 90338 Durham, NC 27708 Phone: 919-660-9457

katia.koelle@duke.edu katia.koelle@duke.edu

HarvardU Economics and evolution

A 24-month post-doctoral position, potentially extendable to 36 months, is available starting in January, 2008. The position is a joint appointment between the Department of Organismic and Evolutionary Biology and the Department of Economics at Harvard University, and is funded by a National Science Foundation grant provided in partnership with the European Science Foundation EUROCORES program The Evolution of Cooperation and Trading (TECT, < <http://www.esf.org/tect> >www.esf.org/tect). Under TECT, eight PIs in six countries have organized a collaborative research project, called BIOCONTRACT, to develop and test theories regarding the evolution of mutualism.

The aim of the postdoctoral position at Harvard is to adapt economic theory to the evolutionary theory of mutualism. In particular, we are interested in the branch of economics that models transactions in which participants have "private information," raising the possibility of cheating. Contract theory and other kinds of economic game theory have the potential to link biological market models with the body of mutualism theory that is largely concerned with the evolution of cheating.

We have assembled a team of economists and biologists to adapt economic models to a variety of mutualisms for which we have extensive empirical data, including ants and plants, ants and lycaenid butterflies, figs and wasps, and plasmids and bacteria. Research topics that can be addressed include the evolution of interspecific signaling and deception, asymmetries between hosts and symbionts, adverse selection and market segmentation as applied to partner choice mechanisms, tailored models of specific mutualisms for which we have detailed behavioral data, and general models outlining the kinds of contracts that can exist between species, with the overall aim of understanding the factors promoting or deterring the evolution of mutualism.

The post-doctoral researcher will work with Professor Naomi E. Pierce in the Department of Organismic and Evolutionary Biology and Professors Jerry Green and Drew Fudenberg in the Department of Economics. Regular meetings and opportunities for extended interactions with the other members of the BIOCONTRACT team and their research groups will be available: Prof. Ulf Dieckmann (IIASA, Austria), Dr. Francisco Dionisio (Univ. Lisbon, Portugal), Dr. József Tóthmérész (CNRS Toulouse, France), Dr. István Székely (Eötvös Loránd Univ., Hungary), and Dr. Douglas Yu (Univ. East Anglia, UK).

The applicant should have a PhD in Biology, Economics, Mathematics, or related area. Proficiency in mathematical modeling is required, and familiar-

ity with biological models of cooperation, evolutionary game theory, or economic modeling is desirable. Salary is commensurate with experience.

Applicants should submit a curriculum vitae, statement of research interests and representative publications, and should arrange for three letters of reference to be sent to Naomi Pierce, Department of Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138, USA. Review of applications will begin December 15, 2007. The start date is flexible: the position could start as early as January 1, or as late as July 1, 2008.

Further information about the Department is available at its website: < <http://www.oeb.harvard.edu> >. Harvard University is an Affirmative Action/Equal Opportunity Employer.

For informal inquiries: Naomi Pierce
(<npierce@oeb.harvard.edu>) Jerry Green
(<jgreen@hbs.edu>) Drew Fudenberg
(<dfudenberg@harvard.edu>)

naomi.pierce@googlemail.com

HarvardU EvoOfMorpholgy

Postdoctoral Positions Studying the Evolution of Morphology.

Applicants should have extensive experience in the comparative phylogenetic study of embryology of reptiles or amphibians, or in the comparative phylogenetic study of functional morphology of reptiles in an ecological context. Research will be directed to understanding convergent evolution in lizards. To apply, send a curriculum vitae to Jonathan Losos, Department of Organismic and Evolutionary Biology, Harvard University by email: jlosos@oeb.harvard.edu <<mailto:jlosos@oeb.harvard.edu>>. Applications must be received by Nov 11, 2007.

– Jonathan B. Losos Museum of Comparative Zoology and Department of Organismic and Evolutionary Biology Office: Museum of Comparative Zoology Labs 204 26 Oxford St. Harvard University Cambridge, MA 02138 617-495-9835 617-495-5667 (fax) <http://www.oeb.harvard.edu/faculty/losos/jblosos/> Jonathan Losos <jlosos@oeb.harvard.edu>

mherman@ksu.edu mherman@ksu.edu

KansasStateU NematodeGenomics

Postdoctoral Position: Nematode Ecological Genomics at Kansas State University

A NSF-funded postdoctoral position is available in the Herman lab (<http://www.k-state.edu/hermanlab>) in the Division of Biology at Kansas State University. The post-doc will work as part of an interdisciplinary team studying the genomic basis of soil nematode responses to environmental change. We combine field-based and laboratory approaches, using both genetic model and native soil nematodes (Jones et al. 2006, *Mol. Ecol.*, 15, 2601; Ungerer et al., 2007, *Heredity*; Kammenga et al., 2007, *TREE*, 22, 273). Specifically, laboratory tests using *C. elegans* and native soil nematodes are used to determine which genes affect fitness responses to environmental change. Ultimately, we aim to determine how changes in gene expression by nematodes as they respond to environmental cues in the field relate to changes in soil nematode communities and processes. Our studies are part of the Kansas State University Ecological Genomics Institute (<http://www.k-state.edu/ecogen>). Ecological genomics is an integrative field of study that seeks to understand the genetic mechanisms underlying adaptive responses of organisms to their natural environment. The position is available for one year, with two additional one-year terms possible subject to performance and funding.

Kansas State University is located in Manhattan, KS, a vibrant college town nestled in the Flint Hills of Kansas, two hours west of Kansas City.

Preference will be given to applicants with expertise in Molecular Ecology and Functional Genomics. *C. elegans* experience is also a plus, but not required. Applicants should have the interest and willingness to cross disciplines. Review of applications begins January 2, 2008 and will continue until the position is filled. To apply, send a brief cover letter, C.V. and a list of three references by email to:

Michael Herman Co-Director, KSU Ecological Genomics Institute Division of Biology Kansas State University 266 Chalmers Hall Manhattan, KS 66506 Office: (785) 532-6741 FAX (785) 532-6653 Email : mherman@ksu.edu <http://www.ksu.edu/hermanlab> Kansas State University is an equal opportunity employer and actively seeks diversity among its employees

London Chytridiomycosis

Zoological Society of London Institute of Zoology

Postdoctoral Research Assistant One year fixed Term initially

Monitoring and Surveillance for Chytridiomycosis in England

Salary Range $\dot{ı}_{\frac{1}{2}}28,109$ to $\dot{ı}_{\frac{1}{2}}30,662$ p.a. (inclusive of London weighting) (depending on relevant postdoctoral experience)

The Institute of Zoology, based at Regent's Park, London, is the research arm of the Zoological Society of London. The Institute is funded by HEFCE through the University of Cambridge and has excellent research facilities.

This post, starting on 1st December 2007 or as soon as possible thereafter, will be for one year in the first instance. The successful applicant will work in the Institute of Zoology's Wildlife Epidemiology Theme.

The majority of the work will be coordinating and conducting surveillance for the fungal pathogen, *Batrachochytrium dendrobatidis*, in amphibians across England. This will involve working closely with field workers, wardens and volunteers to organise sample collection, and analysing samples (primarily skin swabs) for the presence of infection using real-time PCR. The aim of this project is to find out where in England amphibian populations are infected with this emerging pathogen. This work is funded jointly by Natural England and the ZSL. There might also be opportunities to participate with molecular aspects (primarily PCR and sequencing) of other IoZ wildlife disease studies.

Extensive experience in both standard and real-time PCR techniques and up to two years relevant research experience since being awarded a PhD in a relevant subject (e.g. molecular genetics) are essential.

For further information, please see <http://www.zoo.cam.ac.uk/ioz/> or contact HR Dept., ZSL, Regent's Park, London NW1 4RY. Informal enquiries should be directed to Andrew Cunningham at a.cunningham@ioz.ac.uk (please put "research fellow application" in the subject line).

Interested candidates should email a cover letter and their CV, together with the names and addresses of

two academic referees to Human Resources Department (HR@zsl.org). by Friday, 16th November 2007. Short-listed applicants will be invited for interview in the last week of November.

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

Charlotte.Cowan@zsl.org

Madagascar Biogeography

Background:

The position will oversee all aspects of the research goals of the Yoder Lab as well as manage its daily activities, including ordering of supplies, and general oversight of research and educational activities. The lab is located in Duke's Biological Sciences Building where we are a member of the highly dynamic and interactive Department of Biology. As of today, the department has 44 faculty, 54 postdocs and 100 grad students. To say that it is a dynamic and interactive department only scratches the surface.

All lab projects aim to investigate the geological and geographic forces that drive patterns of vertebrate distribution and endemism in Madagascar. Madagascar has been designated as one of the most critical geographic priorities for conservation action, retaining less than 10% of the natural habitats that existed before human colonization. Field inventory activities, primarily conducted by colleagues at the Field Museum of Natural History, German Primate Center, and the University of Antananarivo, focus on the herpetofauna and mammals occurring at the survey sites. Phylogenetic, population genetic, and biogeographic analysis of these animals, each with unique life-history and dispersal characteristics, are conducted to identify areas of high endemism potentially associated with underlying geological and climatic features. All projects thrive on the integration of field, lab, and geospatial analysis for understanding biogeographic patterns. The lab also has a significant focus on capacity-building through the education and training of both American and Malagasy students.

Qualifications:

The successful applicant will have completed their Ph.D. and is expected to have the necessary molecu-

lar skills to generate DNA sequence data for a number of vertebrate groups, as well as the appropriate phylogenetic and/or population genetic analytical skills to interpret the data. In particular, given that we will be focusing on many taxonomic groups at or below the species level, expertise in coalescent methods is highly desirable. The applicant should also have an enthusiasm for biodiversity studies and conservation, as well as a willingness to interact with and, on occasion, train Malagasy scholars as well as Duke undergraduates. Field work is not an integral part of the position, though field possibilities may exist depending upon the skills and interests of the successful candidate. The successful candidate will be highly organized, mature, enthusiastic, and motivated.

Conditions:

This position is funded for two years, with the possibility of a third year extension. Salary is competitive, and the position will carry full benefits. The position will be given to the most highly-qualified applicant, though a start date no later than February 1, 2008 is highly desired.

To Apply:

Send current CV, publications, and list of references to:

Anne D. Yoder, Professor Departments of Biology & BAA Duke University, Box 90338 Durham, NC 27708 ph: 919-660-7275 fax: 919-660-2793 anne.yoder@duke.edu <http://www.biology.duke.edu/-yoderlab/> Director, Duke Lemur Center 919-489-3364, ex. 223 <http://lemur.duke.edu/> Anne Yoder <anne.yoder@duke.edu>

Maynooth Ireland HorizontalGeneTransfer

Hi folks,

I have a position in my lab to start on January 1st for a post-doc working on horizontal gene transfer in prokaryotes.

The successful candidate will hopefully be proficient in programming in java or C or PERL or C++ or any combination thereof. They will need to be familiar with bioinformatics and bioinformatic analyses and all the work will be computational. Ideally, they should already have published papers in high-impact journals where they are first author.

The position is for 18 months initially, but there may be possibilities for a longer time period. The remuneration package includes a contribution to a pension fund.

The work will be carried out at the National University of Ireland, Maynooth, which is located in a small village to the west of Dublin, 30 minutes from Dublin Airport.

More details are available by contacting me directly.

Recent papers include:

McInerney, J.O. and Pisani, D. (2007). Paradigm for Life. *Science* 318: 1390-1391.

Pisani, D., Cotton, J.A. and McInerney, J.O. (2007). Supertrees Disentangle The Chimeric Origin of Eukaryotic genomes. *Molecular Biology and Evolution* 24:8 1752-1760.

Keane, T.M., Naughton, T.J. and McInerney, J.O. (2007). MultiPhyl: a high-throughput phylogenomics webserver using distributed computing. *Nucleic Acids Research* 35: W33-W37.

Puigbo, P., Garcia-Vallve, S. and McInerney, J.O. (2007). TOPD/FMTS: a new software program to compare phylogenetic trees. *Bioinformatics* 23(12):1556-1558.

Wilkinson, M., McInerney, J.O., Hirt, R.P., Foster, P.G. and Embley, T.M. (2007). Of Clades and Clans: Terms for Phylogenetic Relationships in Unrooted Trees. *Trends in Ecology and Evolution*, 22(3) 114-115.

O'Connell, M.J. and McInerney, J.O. (2007). Reconstructing the ancestral eukaryote: Lessons from the past. In *Ancestral Sequence Reconstruction*. Ed: David Liberles. Oxford University Press. pp103-113.

Dr. James O. McInerney, Bioinformatics Laboratory, Department of Biology, National University of Ireland, Maynooth, Co. Kildare, Ireland. P: +353 1 708 3860 F: +353 1 708 3845 E: james.o.mcinerney@nuim.ie

Website — <http://bioinf.nuim.ie/> Blogsite — <http://jamesmcinerney.blogspot.com/>

Applications are sought from outstanding researchers for two postdoctoral positions in the mathematical evolutionary epidemiology of influenza, in the labs of Drs. Troy Day (Queen's University, Canada), Jonathan Dushoff (McMaster University, Canada), David Earn (McMaster University, Canada), and Junling Ma (University of Victoria, Canada). Both positions will be funded for a period of two years, and will involve developing and analyzing mathematical and simulation models of influenza evolution. Ideally positions will be taken up in the spring/summer of 2008. There is some flexibility in terms of which of the three above-mentioned campuses will be the home-base for each position. Duties will also include the teaching of two one-semester courses per year. Salary will begin at C\$40,000 per year.

For more information on research in our labs see: <http://www.mast.queensu.ca/~tday> <http://www.science.mcmaster.ca/biology/Dushoff/-dushoff.htm> <http://www.math.mcmaster.ca/earn>, and <http://www.math.uvic.ca/~jma> Candidates are required to apply for these positions by using the MathJobs website (see our advertisement at <http://www.mathjobs.org/jobs/135/1127>). Review of applications will begin on January 4, 2008 and will continue until both positions are filled.

Applicants should arrange for at least three letters of recommendation. At least one of these letters should report on the candidate's teaching abilities. Preferably these letters will be submitted through the MathJobs website (<http://www.mathjobs.org>); they may also be sent by e-mail to Troy Day (tday@mast.queensu.ca).

We appreciate all replies to this advertisement, but only those applicants selected for our short list will be contacted.

David J.D. Earn Professor of Mathematics Department of Mathematics and Statistics McMaster University 1280 Main Street West Hamilton, Ontario, Canada L8S 4K1

E-mail: earn@math.mcmaster.ca Homepage: <http://www.math.mcmaster.ca/earn> Office: Hamilton Hall, Room 317 Tel: (905) 525-9140, x27245 Fax: (905) 528-0332

David Earn <earn@math.mcmaster.ca>

McMasterU InfluenzaEvolutionaryEpidemiology

Postdoctoral Fellowships in the Mathematical Evolutionary Epidemiology of Influenza

Milan EvolGenomics

A postdoctoral position is available in the group of Francesca Ciccarelli at the IFOM-IEO Campus in Milan (Italy).

The group is interested in detecting the genotypic determinants of cancer through the analysis of genes, proteins and of non-coding portions of the human genome. The main expertise of the group is in computational biology. However, we are also involved in data production using next generation sequencing technologies as well as testing our dry predictions in wet lab. A tight collaboration with the many wet labs in the campus is a major trait of the job.

The successful candidate will deal with data analysis through the development of ad-hoc computational tools. Applicants must have a PhD in bioinformatics, theoretical biology, genetics or equivalent. Computational skills (Perl, R or Matlab, C/C++) are mandatory. A background in evolutionary biology and biostatistics would be favorable.

The IFOM-IEO Campus hosts more than 400 researchers and offers an international and interactive research environment. It results from the integration of two leading Institutes in cancer research: the IFOM (FIRC Institute of Molecular Oncology) and the IEO (European Institute of Oncology). The campus offers the state-of-the-art technologies in the field of molecular and cellular biology and hosts the International PhD program of the European School of Molecular Medicine.

Applicants can send their CV, statement of research interests, and the names and contact information for 3 references directly via email to Francesca Ciccarelli (francesca.ciccarelli@ifom-ieo-campus.it).

– Francesca D. Ciccarelli, PhD Biocomputing
IFOM-IEO-Campus Via Adamello, 16 20139 Milan, Italy tel +39-02574303-053 fax +39-02 94375990
web: <http://ciccarelli.group.ifom-ieo-campus.it/-fcwiki/>
francesca.ciccarelli@ifom-ieo-campus.it
francesca.ciccarelli@ifom-ieo-campus.it

NotreDameU GeneticIdentification

A postdoctoral position is available immediately on a newly funded 3-year project to develop and apply portable, rapid, nanotechnology-based genetic probes for the detection of invasive aquatic organisms. The postdoc must have expertise in molecular genetics/genomics, particular DNA and/or RNA hybridiza-

tion techniques, that will bridge the expertise of the University of Notre Dame engineers and biologists who collaborate on the project. The postdoc will also lead the projects coordination with: Canadian government agencies on planning sampling of ballast water from Great Lakes ships; a collaborator in Germany on analysis and experiments on ballast water samples; and collaborators in the US EPA. Annual salary is \$40,000, plus medical benefits. Before mid December, submit letter of application, CV, and list of names and contact information for at least three referees via email simultaneously to Dr. Jeffrey Feder (feder.2@nd.edu) and Dr. David Lodge (dlodge@nd.edu). Screening will begin as applications are received, and continue until the position is filled. Desired start date for the position is early 2008.

Joanna McNulty <mcnulty.9@nd.edu>

Smithsonian EvoBiology

3-Year Tupper Postdoctoral Fellowship

The Smithsonian Tropical Research Institute (STRI) located in the Republic of Panama is a division of the Smithsonian Institution in Washington DC and maintains research facilities in different marine and terrestrial locations on the Isthmus of Panama. STRI invites applications for the Earl S. Tupper three-year postdoctoral fellowship in the areas represented by its scientific staff. Disciplines include ecology, anthropology, paleontology, paleoecology, evolutionary biology, molecular phylogenetics, biogeography, animal behavior, neurobiology, soils sciences, and physiology of tropical plants and animals. Research should be based at one of the STRI facilities; proposals that include comparative research in other tropical countries will be considered. One fellowship is awarded annually.

In order to apply send a detailed research proposal with 1 page abstract and budget (less than 10 pages), a curriculum vitae, 2 letters of reference, names and telephone numbers of 3 additional professional references and reprints of most important papers. We suggest applicants consult with the STRI scientific staff member who will serve as their host before submitting final application. Staff and research interests are listed at <http://www.stri.org> <<http://www.stri.org/>>. Annual stipend is \$40,000 with yearly travel and research allotments. Deadline for submission: January 15. Starting date October 1.

Applications consist of one (1) printed copy, plus one (1) electronic copy of all requested materials. The electronic copy should be submitted on a CD or by e-mail, as a SINGLE file in Word or preferably PDF, including proposal with budget and CV. Reference letters may also be submitted electronically. Send hard copy of the application to STRI/Office of Academic Programs, Unit 0948, APO AA 34002-0948 from the US/Europe or Apartado 0843-03092, Balboa, Panama from Latin America. Electronic version should be sent to fellows@si.edu.

Awards are based upon merit, without regard to race, color, religion, sex, national origin, citizenship, age or condition of handicap of the applicant.

“Bilgray, Adriana” <BilgrayA@si.edu>

Trondheim PlantMolEvol

A one-year Researcher (Post Doc) position in the field of plant molecular ecology/ecological genetics is open at the Department of Biology, Norwegian University of Science and Technology, in Trondheim. The successful candidate will be part of a research project focusing on the molecular basis of adaptation in the plant model *Arabidopsis lyrata*. The work will consist of using various molecular techniques (mainly DNA sequencing) for elucidating genes associated with biotic and abiotic fitness traits. The fellowship will be at Department of Biology, NTNU, and the successful candidate will work within the $\frac{1}{2}$ Molecular Ecology and Evolution $\frac{1}{2}$ group, headed by assoc. prof. Hans K. Stenoien. This project is run together with prof. Jon Agren at the Uppsala University.

Applicants should have an internationally recognized PhD degree in population genetics, ecology, evolutionary biology or molecular biology with emphasis on ecological or evolutionary questions. Experience in various molecular techniques will be emphasized together with ability to publish in leading international journals, and ability to communicate and co-operate.

The application must contain information on education, exams and previous experience. Publications and other scientific works which the applicant wishes to be taken into consideration must be attached to the application. The application, CV, and confirmed copies of certificates and attestations must be submitted in three copies. Multi-authored publications will be considered but, in cases where the impact of the applicant on the

publication is not evident, a brief description of the role of the applicant in the work must be enclosed. The annual salary of the position is $\frac{1}{2}$ 52.200 (\$76.300) per year.

For more information about the position, please contact assoc. prof. Hans K. Stenoien, e-mail: stenoien@bio.ntnu.no. More information about the Department of Biology is given at: <http://www.bio.ntnu.no/eng/>. More information about the city of Trondheim is given at: <http://www.trondheim.com/engelsk/>. Applications should be sent electronically through www.jobbnorge.no. Reference number: NT-80/07. Other publications should be marked with the reference number and sent in 3 copies to Faculty of natural science and technology Norwegian University of Science and Technology, 7491 Trondheim, Norway. These documents will only be returned on inquiry.

Application deadline is 7th December 2007. We expect the successful candidate to start her/his work in near future.

Hans K. Stenoien, PhD Department of Biology Norwegian University of Science and Technology N-7491 Trondheim, Norway

Phone: +47 7359 6096 Mobile: +47 9189 7592 Fax: +47 7359 6100

http://www.bio.ntnu.no/-Molecular_Ecology_and_Evolution/ <http://www.molecol.net/> stenoien@bio.ntnu.no

UArizona VertebrateSystematics

GEORGE GAYLORD SIMPSON POSTDOCTORAL FELLOWSHIPS IN VERTEBRATE SYSTEMATICS AND EVOLUTION UNIVERSITY OF ARIZONA

The Department of Ecology and Evolutionary Biology announces three postdoctoral fellowship positions for Fall 2008, named in honor of G. G. Simpson's long tenure at the University of Arizona. Simpson Fellows are expected to conduct an active research program that is facilitated and complemented by the Department's extensive natural history collections in ichthyology, herpetology, ornithology, and mammalogy. The EEB collections have a strong taxonomic focus on the fauna of the southwest United States, northwest Mex-

ico, the Gulf of California and the Eastern Pacific. The positions are part of a renewed commitment to natural history collections on the University of Arizona campus and a new initiative in biodiversity informatics, and Postdoctoral Fellows are encouraged to establish research collaborations with faculty in the Department of Ecology and Evolutionary Biology. Responsibilities of the positions include teaching one course per year in the Fellow's taxonomic specialty. Salary is \$37,500 (DOE) plus benefits. A research stipend of \$5000 will also be included. The positions are renewable for at least two years based on satisfactory performance.

Applicants should submit application materials online at the University of Arizona Human Resources website (<https://www.uacareertrack.com>; look for job #39290), including C.V., statement of research and teaching interests and experience, and two letters of reference. Position is open until filled, but we anticipate reviewing applications beginning on Nov. 15, 2007.

Contact Dr. Peter Reinthal (pnr@email.arizona.edu), Dr. Alex Badyaev (abadyaev@email.arizona.edu) or Dr. Michael Sanderson (sanderm@email.arizona.edu) for further information.

===

abadyaev@email.arizona.edu
abadyaev@email.arizona.edu

UBritishColumbia EvolMorph MarineProtist

Postdoctoral Research Position: Evolutionary Morphology, Marine Protistology Departments of Zoology & Botany University of British Columbia

The Laboratory of Protozoan Diversity and Evolution (<http://www3.botany.ubc.ca/bleander/index.html>) is looking for a broadly trained, self-motivated and enthusiastic individual interested in exploring the evolutionary morphology and molecular phylogeny of marine predatory flagellates.

The lab is focused almost exclusively on characterizing uncultured (or difficult to culture) marine microeukaryotes using state-of-the-art approaches that incorporate fieldwork, light microscopy, scanning electron microscopy, transmission electron microscopy and molecular phylogenetics. Although the successful applicant will play a major role in developing specific projects, research centered on the discovery, biodiversity and char-

acter evolution of marine dinoflagellates and euglenids will be encouraged.

The applicant must have a Ph.D., excellent written and oral communication skills, and demonstrated interest and expertise in comparative organismal biology, macroevolution and systematics. Additional experience with any or all of the following is highly desirable: marine biology; endosymbiosis; light microscopy; FISH; transmission and scanning electron microscopy; image processing (e.g. Adobe Photoshop and Illustrator); standard molecular techniques associated with PCR, cloning and sequencing; molecular phylogenetic analysis; and the interpretation of ultrastructural data from eukaryotes. The research will involve routine field collections in nearby habitats, including the Bamfield Marine Sciences Centre (www.bms.bc.ca) located on the west side of Vancouver Island. The successful applicant will be reappointment each year for 3-years, contingent on satisfactory progress, and be expected to participate in the UBC Centre for Microbial Diversity and Evolution (<http://www.cmde.science.ubc.ca/>). The postdoctoral research position is available in June of 2007, but the actual start date is negotiable.

If interested, please email a short cover letter outlining your research experience and interests, a curriculum vitae and contact information for 3 referees to:

Brian Leander (bleander@interchange.ubc.ca) Departments of Botany and Zoology University of British Columbia #3259-6270 University Boulevard Vancouver, B. C. V6T 1Z4, Canada

Web: <http://www3.botany.ubc.ca/bleander/-index.html> Tel: (604) 822-2474, Fax (604) 822-6089

bleander@interchange.ubc.ca

bleander@interchange.ubc.ca

UCaliforniaDavis PopulationBiology

EFFECTIVE: NOVEMBER 1, 2007

DEADLINE: NOVEMBER 23, 2007

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY—The Center for Population Biology at U. C. Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have re-

cently completed their PhD. The position is for two years, subject to review after one year, and can begin as early as 1 July 2008. It has an annual salary of \$38,000 plus benefits, and \$6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. For more information about UCD programs in population biology, see <http://www.cpb.ucdavis.edu> < <http://www.cpb.ucdavis.edu/> > .

ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, and a short (1-2 page) description of proposed research including potential faculty mentors, and copies of two publications at <http://www2.eve.ucdavis.edu/jobs/> all as PDFs. We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on-line instructions for further information. For full consideration, applications should be received by November 23, 2007. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to gradcoordinator@ucdavis.edu.

Stephanie

Population Biology Graduate Group

University of California, Davis

Stephanie

<smaceygallow@ucdavis.edu>

Macey-Gallow

UCaliforniaRiverside MicrobialEvolGenomics

Postdoctoral position: Evolutionary genomics of *Xylella fastidiosa*.

A full-time postdoctoral position is available to work with a group of researchers headed by Len Nunney in the Department of Biology at the University of California, Riverside. The primary focus of the research is to understand factors contributing to plant-host adap-

tation of the xylem-living plant pathogen *Xylella fastidiosa* using a genomic approach. The project involves establishing a monitoring system to detect geographical patterns and host shifts in the pathogen. Initial surveys use MLST plus whole genome analysis of selected isolates. For the basics of the system see Schuenzel et al (2005) AEM 71: 3832; Scally et al (2005) AEM 71: 8491.

Candidates should have a Ph.D. degree in evolutionary genetics/genomics, or related disciplines. Solid laboratory skills and computational competence plus a strong background in evolutionary and/or molecular genetics are essential. Familiarity with database management and sequence analysis is desirable.

The start date is flexible. The position is available immediately, with early January 2008 as the target start date. The position is initially for a one-year period, with possible extension of two additional years, dependent upon satisfactory performance. Salary is commensurate with experience and qualifications.

Interested individuals should send a CV, contact details of three referees, and a cover letter describing their interest in the position to leonard.nunney@ucr.edu.

The University of California, Riverside has an active career partner program, and is an Affirmative Action equal opportunity employer committed to excellence through diversity.

Leonard.Nunney@ucr.edu Leonard.Nunney@ucr.edu

UCaliforniaRiverside RhizobialSymbiontEvol

Position Announcement Postdoc: Evolutionary genetics & experimental evolution of rhizobial symbionts Department of Biology, University of California, Riverside, CA 92521

A full time postdoctoral position is available to work in the lab of Joel Sachs in the Department of Biology at the University of California, Riverside. The primary focus of the research is to understand the emergence and spread of uncooperative traits in symbiont populations of *Bradyrhizobium japonicum*. *Bradyrhizobium* species are bacteria that infect and form nodules on legume roots and reduce atmospheric nitrogen in exchange for carbon. The project involves collecting *Bradyrhizobium* from wild legume populations, culturing and sequencing isolates, and using computational

and experimental methods to test hypotheses about the evolution of cooperation and cheating.

Candidates should have a Ph.D. degree in evolutionary genetics/genomics/population biology, or related disciplines. Solid bacteriology skills and some computational competence are both essential. Familiarity with database management and sequence analysis is desirable. A strong background in evolutionary and/or molecular genetics would be very helpful.

The start date is flexible. The position will be available as early as January 2008, but can begin later if necessary. The position is initially for a one-year period, with possible extension of another year, dependent upon satisfactory performance. Salary is commensurate with experience and qualifications.

Interested individuals should send a CV, contact details of three referees, and a cover letter describing their interest in the position to joel.sachs@ucr.edu.

The University of California, Riverside has an active career partner program, and is an Affirmative Action equal opportunity employer committed to excellence through diversity.

Joel Sachs <joel.sachs@ucr.edu>

UEdinburgh Coalescent Theory

A post-doctoral position is available, to work with Nick Barton and Alison Etheridge on "Models of spatially structured populations". The project is to develop coalescent-based models of spatially structured populations that include extinction and long-range movement, and to investigate the consequent patterns for genetic variation. Strong computing skills are essential, and experience with population genetic modelling highly desirable.

The project is funded for three years by the Engineering and Physical Sciences Research Council. The postdoc would be based in the Institute of Evolutionary Biology in Edinburgh (<http://www.biology.ed.ac.uk>), but would collaborate with Alison Etheridge and with a graduate student, who are both based in Oxford.

For further details, please contact n.barton@ed.ac.uk. Applications should be made via <http://www.jobs.ed.ac.uk/>, reference 3008269. The closing date is 5th December.

n.barton@ed.ac.uk n.barton@ed.ac.uk

UEdinburgh Sexual Antagonism

Postdoc position at University of Edinburgh, UK: Sexually-antagonistic effects in red deer

A three-year postdoctoral research position is available studying the evolutionary genetics of sexually antagonistic effects in a wild population of red deer on the Isle of Rum, NW Scotland. The research will combine long-term life history data on individually-marked animals with quantitative genetic pedigree analyses to investigate the genetic basis of, and the patterns of natural selection on, inter-sexual conflict in a polygynous species. It will test for sexually antagonistic genetic effects, quantify the selection pressures generating them, determine the interactions between sexually-antagonistic effects and environmental conditions, and explore a possible mechanistic basis using endocrinological analyses. Experience of statistical analysis of complex data sets is necessary, and experience of quantitative genetics is desirable.

The project is funded by a Natural Environment Research Council grant to Loeske Kruuk and Josephine Pemberton, Institute of Evolutionary Biology (IEB), University of Edinburgh UK and Tim Clutton-Brock, University of Cambridge, UK. IEB Edinburgh is a world-leading centre for evolutionary ecology, and the postdoc will join a large multi-disciplinary group working on the evolutionary genetics of wild animal populations (<http://wildevolution.biology.ed.ac.uk/>).

Starting date: 1st April 2008.

Fixed Term: 3 years Salary Scale: £27,466 - £32,796 p.a. Vacancy Reference: 3008185

Closing date for applications: 23rd November 2007

Informal enquiries to: Loeske Kruuk Institute of Evolutionary Biology University of Edinburgh, Edinburgh EH9 3JT, UK Tel. (44) 131 650 5515 Loeske.Kruuk@ed.ac.uk <http://wildevolution.biology.ed.ac.uk/~lkruuk/opportunities.html> Loeske Kruuk <Loeske.Kruuk@ed.ac.uk>

UGlasgow ViralPhylogenetics

Post-doc in epidemiological modelling and viral phylogenetics

Institute of Biomedical & Life Sciences, University of Glasgow

£29,139 - £32,796 per annum

Ref: 13872/DPO/A3

We are looking for a post-doctoral research assistant to develop statistical methods for integrating viral sequence data with more traditional epidemiological data on host spatial location and infection periods collected during epidemics. The goal is to develop statistical tools with which to enable reliable and efficient inference about population contact structures and transmission patterns. This Franco-British project is jointly funded by BBSRC and ANR and will be supervised from both the University of Glasgow and the French National Institute for Agricultural Research (INRA) in Montpellier and Avignon. The primary location for where the PDRA will be based is negotiable.

The project aims to develop and apply cutting edge statistical and mathematical methods that integrate evolutionary and epidemiological processes across scales using real epidemiological and phylogenetic data. 'Forensic epidemiology' plays an increasingly important part in disease control and management, but we currently lack statistically rigorous methods to combine different data types. While we ultimately wish these methods to be generalizable to a wide class of pathogens, the primary focus will be on RNA viruses because of their high mutation rate. The two pathosystems we will work with will be Foot-and-mouth disease virus (FMDV) and Plum pox virus (PPV).

We are looking for candidates with skills in all or some of the following areas: Bayesian statistics, applied mathematics, computer programming, phylogenetic modelling, evolutionary genetics or related subjects. They should speak English, and French literacy would be a plus. Strong communication and teamwork skills are fundamental given the multi-disciplinary and international context of the project.

The project, led by Professors Dan Haydon (University of Glasgow) and Joël Chaduf (INRA, Avignon), involves collaboration in the UK with Rod Page, Ro-

man Biek (University of Glasgow) and David Paton (Institute of Animal Health, Pirbright), and in France (INRA, Montpellier) with Gérard Labonne, Sylvie Dallet and Gaël Thébaud. The team includes specialists in statistics, modelling, bio-informatics, evolutionary genetics, epidemiology, and plant and animal virology.

This post is available for 3 years. The grade of the post will be Research and Teaching, level 7 of the University's salary scales at: £29,139-£32,796 per annum

Further particulars can be found at: <http://www.gla.ac.uk/jobs/vacancies/>. Informal enquiries are welcome and should be made to Dan Haydon (D.Haydon@bio.gla.ac.uk).

Letters of application (two copies), including two CVs, the names, postal and e-mail addresses and fax numbers of two academic referees, should be sent to FBL Staffing Office, West Medical Building, University of Glasgow, Glasgow, G12 8QQ, UK quoting the reference number.

Closing Date: 8 January 2008

Dan Haydon Rm 408, Graham Kerr Bldg Division of Environmental and Evolutionary Biology University of Glasgow Glasgow G12 8QQ

Tel.: 0141 330 6637 Mobile: 0779 534 1626 Fax: 0141 330 5971 E-mail : D.Haydon@bio.gla.ac.uk

<http://www.gla.ac.uk:443//ibls/staff/staff.php?who=PQdGSP> Dan Haydon <D.Haydon@bio.gla.ac.uk>

UKentucky WolbachiaEvol

Position Announcement Postdoctoral Research Fellow Vector Research Group University of Kentucky * Lexington, KY

Applications are invited for a full-time postdoctoral fellow. The position is available immediately.

Wolbachia cause a form of sterility in insects known as cytoplasmic incompatibility (CI), which results in karyogamy failure and arrested embryonic development. In populations that include both uninfected and infected individuals, unidirectional CI can drive the replacement of the uninfected cytotype with the infected cytotype, resulting in the conversion of an uninfected population into an infected population (termed: "population replacement"). In populations where individuals are infected with different Wolbachia types, bi-

directional CI can occur: sterility results in both cross directions between mates infected with different *Wolbachia* types. Models predict that in natural populations, sterility resulting from bi-directional CI is a transient event, since one infection will predominate and replace the other cytotype.

While substantial effort has been devoted to examining the effect of *Wolbachia* on individuals (e.g., *Wolbachia* effects on egg hatch, longevity, etc.), relatively little is known about population-level effects of *Wolbachia*. We seek a collaborator with interest and experience in mathematical modeling, statistics, demography and ecology. The successful applicant will lead the analysis of existing data sets of insect populations that are either infected with *Wolbachia* or are uninfected. The recruit will also be encouraged to develop additional modeling and/or empirical projects.

Applicants should have a Ph.D. The ideal candidate will have a competitive publication record and enjoy working in a multidisciplinary environment. Funding is available for up to four years with annual renewal contingent upon satisfactory performance. Funds are available for participation in professional meetings.

Applicants are requested to send a detailed curriculum vita, statement of career goals and research interests, reprints of recent papers, and the names and contact details of three referees.

Applications, informal enquiries, and requests for additional information should be addressed to:

Stephen Dobson or Charles Fox Department of Entomology University of Kentucky S-225 Agricultural Science Center North Lexington, KY 40546 sdobson@uky.edu <http://www.uky.edu/~sdobson> <http://www.uky.edu/~cfox> * University of Kentucky recognized as "top ten overall institution" for postdocs, The Scientist Survey: Best Places to Work for Postdocs, vol.17.3, Feb. 10, 2003

cfox@email.uky.edu cfox@email.uky.edu

ULausanne StatisticalGenetics

Postdoctoral position in statistics/statistical genetics at the University of Lausanne (Switzerland):

A one to two year postdoctoral position is available to study data from several whole genome association studies. These include a large ($N > 6000$) local population-based study in Caucasians, plus several studies shared

with international consortia. The data include multiple phenotypes with complex genetic and environmental determinants, and high density SNP genotyping data.

Topics for study include identifying multiple gene effects, gene-gene and gene-environment interactions, population stratification and multiple testing issues.

Candidates should have a strong background in modern statistical methods, and should also have programming skills in R, C, C++ or a similar language. Previous experience with large scale genetic association studies is desirable but not essential. We encourage applications from candidates with more general statistical training, and who are interested in applying their skills to large scale genetics problems.

Candidates should have, or expect to acquire soon, a PhD in a relevant subject area.

The successful applicant will be based at the University of Lausanne, working in a multidisciplinary team with great strength in the genetics of cardiovascular and metabolic diseases. Lausanne is a beautiful lake-side city in Switzerland, near the Alps.

Salary will be in the range 60,000 - 80,000 CHF per annum, according to experience and qualifications. The start date should be in January 2008 or as soon as possible thereafter. Candidates must already be authorized to work in Switzerland or the EU. and send their CV to: Murielle.Bochud@chuv.ch

Murielle Bochud Cheffe de clinique adjointe Institut Universitaire de Médecine Sociale et Préventive (IUMSP) Rue du Bugnon 17 CH-1005 Lausanne Suisse (Switzerland) Tél (phone): ++41 21 314 7254 Fax: ++41 21 314 7373

Murielle.Bochud@chuv.ch

ULaval SpruceGenomics

POSTDOCTORAL FELLOWSHIP - Genomics of spruce: QTL and association mapping

Arborea is a Canadian large-scale research project, which involves about fifty people from universities and governmental institutions. We want to hire a post-doctoral fellow for QTL and association mapping study.

The research agenda of the project is the following: Discovery of genomic tools for the conservation and sustainable use of natural genetic resources, including the identification of novel varieties to improve productivity

and value in spruces by integrating functional genomics and association studies.

DESCRIPTION: * QTL data analyses to detect genes and or genomic regions involved in growth related-traits and adaptation in eastern white spruce (*Picea glauca*)
 * Conduct association study in natural populations to look for alleles/genes involved in growth and adaptation
 * Conduct association study in structured populations to look for alleles/genes involved in wood formation
 * Supervision of students and technical staff in related areas
 * Redaction and presentation of scientific papers and reports in referee journals and scientific conferences
 * The successful candidate will be expected to develop strong lines of communication and coordination of activities with group members at the Canadian Forest Service in Québec City, as well as with other participants in the project, principally at Université Laval and the University of Alberta

QUALIFICATIONS: * Doctoral degree (Ph. D.) in population genetics or related field, or statistics applied to genetics, or QTL data analysis, and or related areas
 * Experience with computation methods
 * Experience in analysis of mixed-models
 * Very good verbal and written communication skills
 * Demonstrated aptitudes for teamwork
 * Ability to work independently and to supervise
 Compensation and conditions:
 * Duration of contract: one year (renewable)
 * Salary range: To be discussed.
 * Location of employment: Université Laval and Natural Resources Canada, Canadian Forest Service-Quebec (Quebec City) in a bilingual work environment.

Please send a resume, a description of research experience, and contact information of three references before Decembre 14th, 2007 to:

M. Pascal Poulin Pavillon Charles-Eugène-Marchand
 Université Laval Sainte-Foy, Québec, Qué G1K 7P4 E-mail : info@arborea.ulaval.ca

Pascal Poulin <Pascal.Poulin@rsvs.ulaval.ca>

UMichigan EvolGeneEnvInteractions

Post-Doc in Statistical Modeling of Gene-Environment Interaction University of Michigan

A post-doctoral position is available from January 2008, to work with Sebastian Zollner in collaboration with Noah Rosenberg on Methods for Gene-environment

Interaction. We are interested in modeling gene-environment interaction, efficient methods for including environmental covariates in gene mapping and exploring the evolutionary consequences of gene-environment interaction. A possible project involves developing a model to define heritable subtypes of complex disorders such as bipolar disorder by analyzing the joint inheritance of endophenotypes and the clustering of environmental covariates in families. Strong computing skills are essential, and experience with statistical modeling is highly desirable.

The project is funded for three years by the National Institutes of Health. The postdoc will be based in the Department of Biostatistics (www.sph.umich.edu/-biostat) and the Center for Statistical Genetics (csg.sph.umich.edu) at the University of Michigan.

For further details, please contact szoellne@umich.edu.

Sebastian Zoellner <szoellne@med.umich.edu>

UMissouri QuantitativeGenomics

Division of Animal Sciences University of Missouri, Columbia (Readadvertised Position)

A postdoctoral position in Quantitative and Population Genomics is available within the Animal Genomics group to work on high-resolution SNP data generated in cattle and closely related species. The Animal Genomics group has collaborated in the development of an Illumina iSelect Infinium SNP assay for cattle which contains 53K scoreable loci. The group has used this assay to genotype more than 12,500 samples representing a variety of populations, breeds and phenotypes. These samples have produced over 600M genotypes which will be used to: 1) Characterize linkage disequilibrium and population characteristics (admixture, inbreeding, relationship, effective population size, phylogeny, hybridization) within cattle and closely related species, 2) develop novel approaches for fine-mapping of QTL based upon historical selection, and 3) map/fine-map QTL associated with fertility, production and feed efficiency traits in beef and dairy cattle using association and joint linkage/linkage disequilibrium approaches. The successful candidate will be responsible for the analysis of data modules using existing analytical tools as well as developing novel methods for analyzing high density SNP data in pedigreed populations. Candidates should have completed a Ph.D. in genetics, statistics, computational biology or related

discipline. Previous experience in computer programming, population or quantitative genetics and with the analysis of genomic data is desirable.

The successful candidate will have the opportunity to participate in the largest population and QTL mapping projects conducted to date within a livestock species. The candidate is expected to provide intellectual leadership in both analysis and the authorship of publications. The position is available for up to two years with reappointment in the second year conditional upon satisfactory performance during the first year. This position is not eligible for tenure. Salary will be within the range \$32,000-\$45,000 commensurate with qualifications and experience. Benefits include medical insurance, paid leave and paid holidays. An overview of the Animal Genomics group can be found at (<http://animalgenomics.missouri.edu> < <http://animalgenomics.missouri.edu/> >). Information about the University of Missouri and the Division of Animal Sciences can be found at <http://www.missouri.edu/> and <http://animalsciences.missouri.edu/>.

For further information contact Dr. Jerry Taylor at taylorjerr@missouri.edu or (573) 884-4946. Interested candidates should e-mail their CV and contact information for 3 references to taylorjerr@missouri.edu. Applications will be accepted until suitable candidates have been identified.

The University of Missouri System is an Equal Opportunity/Affirmative Action institution and is nondiscriminatory relative to race, religion, color, national origin, sex, sexual orientation, age, disability or status as a Vietnam-era veteran. The University of Missouri is in compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and of the Americans with Disabilities Act of 1990.

taylorjerr@missouri.edu

200). Researchers will be involved in the development of methods and collection/analysis of data generated in our ongoing studies. The successful candidate will be trained in population or evolutionary genetics or have strong computational or statistical skills. Postdoctoral research scientists can work on interesting projects of their choosing related to the labs research interests or our current projects. Possible projects include:

- 1) Genome-wide re-sequencing, genotyping and expression assays with an emphasis on humans and Malaria sampled from African and Asian populations. A “population systems biology” approach to identifying key genes and gene networks associated with infection and resistance in both humans and pathogens.
- 2) Inferring fitness consequences of mutations and demography from genome-wide collections of empirical population and comparative data from humans and related primates and pathogens.
- 3) Evolutionary history of humans and inherited human diseases. Data from partial or complete genome sequencing.

Our lab works in close collaboration with a number of research laboratories throughout Montreal and internationally, including projects on neurological disorders in the Centre of Excellence in Neurology at U. of Montreal, and malaria at the National Institute of Allergies and Infectious Disease (NIH). Projects are funded by the Human Frontiers in Science, the National Academies, NIH and other resources. Postdocs will work closely with myself and collaborators on some of these projects, including Sarah Tishkoff, Gil McVean, Anna Tramontano, Franck Prugnolle, Mark Samuels, John Rioux, Guy Rouleau, Greg Gibson, and Collins Ouma. Interested individuals with a Phd should please write to Philip Awadalla (philip.awadalla@umontreal.ca).

Sincerely, Philip Awadalla

philip.awadalla@umontreal.ca

UMontreal HumanPathogenEvolGenomics

Postdoctoral Positions in Evolutionary Genomics of Humans and their Pathogens at University of Montreal

Two postdoctoral positions are available in a population and evolutionary genomics laboratory at the University of Montreal with Philip Awadalla (<http://www.recherche-sainte-justine.qc.ca/en/chercheurs/>

UMuenster 3 MolEvol

3 POSTDOC POSITIONS IN MOLECULAR EVOLUTION AND EVOLUTIONARY BIOINFORMATICS

THREE POSITIONS AS POSTDOCTORAL RESEARCH ASSOCIATES (“Wissenschaftlicher Mitarbeiter”) will become available in 2008 in the newly founded IEB, the Institute for Evolution and Biodiversity, University of Muenster, Germany.

RESEARCH PROJECTS will be in one or more of the following areas: (see www.uni-muenster.de/evolution/-ebb and further links for details)

Position 1: Modelling and Analysis of Genome Evolution in Host-Parasite Systems

Position 2: Modelling and Analysis of the Stress Response in Plant Cells using ESTs, Genomic and Transcriptomic Data

Position 3: Comparative Analysis of Sequence Evolution and Expression Evolution

Projects will be carried out in close collaboration with experimental groups at the IEB and the Faculty, for example the groups of Profs. Reusch (Plant Evolutionary Ecology), Kurtz (Animal Evolutionary Ecology), Bravo (Experimental Molecular Evolution) and Kudla (Plant Genetics).

ESSENTIAL QUALIFICATIONS are:

*) PhD in natural sciences and research experience in a biological area *) Basic skills in statistics and programming *) Motivation and proven ability to carry out research independently *) Good communication skills

Candidates are encouraged to develop their own research agenda by supervising students and applying for their own funds but this is not a must.

Interested candidates should send applications to Prof Bornberg-Bauer [ebb\[at\]uni-muenster.de](mailto:ebb[at]uni-muenster.de) as pdf attachment (max 4 pages) detailing education, scientific career, list of publications, names of scientists willing to provide references and a short statement of research interest.

CLOSING DATE is Nov 15th 2007 for Position 1 and Jan 31st 2008 for Positions 2 and 3. Commencing date is Feb 1st for Position 1 and any time between April and October 2008 for Positions 2 and 3.

Muenster hosts many excellent scientific institutions such as a newly founded Max-Planck Institute for biomedical research, a Centre for Nanotechnology or a great number of specialised research areas ("SFBS"). Muenster is a dynamic city with a world-famous heritage centre and in the middle of the beautiful "Muensterland". It is very lively, last not least because of the high number of students (around 20% of the residents) and the rich choice of social, cultural and sporting facilities (see www.muenster.de).

Prof. Erich Bornberg-Bauer (PhD), Institute for Evolution and Biodiversity School of Biol.Sciences, University of Muenster, Schlosspl.4 D48149 Germany Tel/Fax: +49(0)251-83-21630/21631 web: www.uni-muenster.de/evolution/ebb/ ebb <[ebb@uni-](mailto:ebb@uni-muenster.de)

muenster.de>

UNCChapelHill HostSpecializationEvol

Post-doc position in evolution of host specialization and virulence at UNC-Chapel Hill

We are using new whole genome sequencing technologies to study the evolution of host-specialization and virulence in *Pseudomonas* pathogens. This is an NIH funded collaboration between Dr. Jeff Dangl and Dr. Corbin D. Jones. We seek highly motivated post-docs interested in merging computational and experimental biology to test evolutionary and genetic hypotheses. Ideal candidates will have a strong evolutionary background, some exposure to bioinformatics or programming, and experience with cloning and bacterial genetics. We will teach you the rest.

The University of North Carolina at Chapel Hill is a diverse campus located in the Research Triangle of North Carolina. Both North Carolina State University and Duke University are close by. UNC-CH is repeatedly ranked one of the best public Universities and a great place to post-doc.

Evolutionary and computationally oriented candidates should contact Corbin Jones at cdjones@email.unc.edu

Microbial genetics oriented candidates should contact Jeff Dangl at dangl@unc.edu

Related publications:

Jeck WR, Reinhardt JA, Baltrus DA, Hickenbotham MT, Magrini V, Mardis ER, Dangl JL, Jones CD. 2007. Extending assembly of short DNA sequences to handle error. *Bioinformatics*. 2007 Sep 24;

Grant SR, Fisher EJ, Chang JH, Mole BM, Dangl JL. 2006. Subterfuge and manipulation: type III effector proteins of phytopathogenic bacteria. *Annu Rev Microbiol*.60:425-49.

Jones JD, Dangl JL. 2006. The plant immune system. *Nature*. Nov 16;444(7117):323-9.

Rohmer L, Guttman DS, Dangl JL. 2004. Diverse evolutionary mechanisms shape the type III effector virulence factor repertoire in the plant pathogen *Pseudomonas syringae*. *Genetics*. Jul;167(3):1341-60.

Corbin Jones <corbindjones@gmail.com>

UOtago KelpPhylogeography

A07/174

UNIVERSITY OF OTAGO Te Whare Wananga o
Otago

Dunedin, New Zealand

Postdoctoral Fellow Phylogeography of Rafting Kelp
Communities (Fixed-Term)

DEPARTMENT OF ZOOLOGY

Applications are invited from suitably qualified persons for the position of Postdoctoral Fellow in the Department of Zoology. This position is funded by a grant from the Marsden Fund to Dr Jonathan Waters (Principle Investigator), Professor Hamish Spencer, and Dr Kirsten Donald, and is available for three years.

The appointee will have expertise in phylogeographic analysis of microsatellite and DNA sequence data; experience in marine biogeography and invertebrate systematics would be valuable but not essential.

Our research programme aims to investigate the evolutionary and ecological importance of rafting in the marine environment. Southern Hemisphere coasts are dominated by bull-kelp (*Durvillaea antarctica*), a robust and buoyant macroalgal species that hosts an extremely diverse invertebrate assemblage. We will use comparative population genetic analyses to test the hypothesis that genetic connectivity is high in rafting kelp and invertebrate taxa relative to their non-rafting sister taxa. We will employ phylogeographic methods to test the geographic origins of rafting and rafted kelps and their invertebrate communities.

Applicants must have completed a PhD and have published research results in a relevant field. We wish to fill this position by April 2008 or soon thereafter.

Specific enquiries may be directed to Dr Jonathan Waters, Senior Lecturer, Department of Zoology (currently c/- School of Zoology, University of Tasmania, Tel +61 3 6226 2633, Fax +61 3 62262745) Email: jonathan.waters@stonebow.otago.ac.nz

Reference Number: A07/174. Closing Date: Friday 14 December 2007.

APPLICATION INFORMATION

With each application, applicants must include an Ap-

plication Form, an Equal Employment Opportunity (EEO) Form, a covering letter addressed to the Recruitment Consultant, and two copies of full Curriculum Vitae. For an application form, EEO Information Statement and a full job description go to: www.otago.ac.nz/jobs Alternatively, contact the Human Resources Division: Tel +64 3 479 8269; Fax +64 3 479 8279; Email job.applications@otago.ac.nz

Equal opportunity in employment is University policy. E tautoko ana Te Whare Wananga o Otago i te kaupapa whakaorite whiwinga mahi.

Dr. Jonathan Waters Senior Lecturer Department of Zoology University of Otago 340 Great King Street Dunedin, New Zealand Ph NZ-3-4795847 Fax NZ-3-4797584 Visit my Homepage: <http://www.otago.ac.nz/zoology/staff/academic/waters.html> Jonathan Waters <jon.waters@otago.ac.nz>

UPadova EuropeanEelEvol

A one-year postdoc position is currently available in the molecular ecology group of the Biology Department (University of Padova, Italy).

The post-doc will participate to the project "Population genetics of European eel (*Anguilla anguilla*) using EST-linked microsatellites". The main aim is to investigate the effects of geographical differentiation, temporal variation and pollutants on the pattern of functional genetic variability in Italian eel populations. The project is supported by a grant of the Italian Ministry of University and Research to Lorenzo Zane.

The post-doc student will be involved in the identification and development of EST-linked microsatellites in *A. anguilla* and in their application to population analysis. The candidate will contribute to the statistical analysis of data and writing of scientific papers in collaboration with other project participants. The project involves close collaboration with other groups in Italy that will perform population dynamics modelling, age determination, and bioaccumulation analyses. Additionally, the candidate should collaborate on broader evolutionary genetic and genomics questions in eel with two other groups (Prof. Michael M Hansen - Danish Institute for Fisheries Research, Technical University of Denmark; Dr. Gregory Maes -Prof. Filip Volckaert group at the Katholieke Universiteit Leuven, Laboratory of Aquatic Ecology, Belgium).

The candidate should have good skills in molecular biology, including primer design and microsatellite genotyping. Knowledge and experience in bioinformatics basic programming (perl/R) and/or population genetics background will also be an important qualification criterium.

Padova University is one of the oldest in Italy, and is currently among the top-rated for excellence in scientific research. The Department of Biology hosts a small (currently 4 faculty and 10 post-doc-phD students) but well qualified group working in population and conservation genetics, evolutionary biology and eco-ethology. The city of Padova is about 35 km from Venice and 80 from Verona and offers stimulating cultural and recreational opportunities.

The deadline for application is 15 November and details for application can be found at the University of Padova website (http://www.unipd.it/ricerca/-assegni_ricerca/assegni.htm) under the Italian title “Genetica di popolazione dell’anguilla europea (Anguilla anguilla) mediante microsatelliti EST-linked. Verifica del differenziamento geografico di popolazioni italiane rispetto alla variabilità temporale ed ai possibili effetti selettivi di alcuni inquinanti”. Tentative starting date is 1 January 2008.

For further informations: lorenzo.zane@unipd.it

Lorenzo Zane Dipartimento di Biologia - Università di Padova Via G. Colombo 3 I- 35131 Padova Italy tel. +39 049 8276220 fax +39 049 8276209

UPennsylvania MathBiology

Postdoctoral Fellowship in Mathematical Biology at U. Penn:

A postdoctoral fellowship (2-3 years) is available in the mathematical biology group of Dr. Joshua B. Plotkin at the University of Pennsylvania.

The specific research project is flexible and can be tailored to the interests of the individual, but it will fall under the broad purview of evolutionary and ecological theory. Areas of interest in the Plotkin lab include theoretical population genetics, the evolutionary ecology of viral populations, the evolution of robustness and adaptability, and the evolution of social norms.

Requirements for the position include: a proven record of self-motivated research; a PhD in mathematics,

statistics, physics, biology or related area; excellent communication skills. The ideal candidate should also be familiar with scientific programming.

The postdoctoral fellowship provides a competitive annual stipend (minimum \$38,000) plus benefits and health insurance. Start date and term are negotiable. Applications are welcome from candidates of any nationality, and will be reviewed starting January 1, 2008.

The Penn Genomics Institute offers an outstanding intellectual environment. Research at the Institute addresses basic questions in biology through genomic, computational, and modeling approaches. Collaborations among research groups and across the broader Penn community are common. The Institute is housed in the newly constructed Lynch research building.

Highly motivated applicants are encouraged to email a statement of research interests, CV, and contact details for three references to [jplotkin \(at\) sas.upenn.edu](mailto:jplotkin@sas.upenn.edu). Informal inquiries are also welcomed.

Joshua B. Plotkin Department of Biology The University of Pennsylvania 415 S University Avenue Philadelphia, PA 19104 [jplotkin \(at\) sas.upenn.edu](mailto:jplotkin@sas.upenn.edu) <http://mathbio.sas.upenn.edu/> jplotkin@sas.upenn.edu

UppsalaU AvianEvolutionaryGenomics

Post-doc in evolutionary genomics

at the Evolutionary Biology Centre, Uppsala University, Sweden Centre of Excellence in Evolutionary Genomics

Genome sequencing (6x coverage) of the second bird species to have its genome characterised - the zebra finch - has just been completed. A post-doc position focusing on evolutionary genomic and molecular evolutionary analysis of the zebra finch genome sequence is now available in Hans Ellegren’s laboratory

The zebra finch is an important model species for neurobiology. and has led to several important discoveries. The production of new neurons in adult brain was first reported in zebra finch, which challenged the universally held dogma that neurogenesis does not occur in adults. Research in this species also demonstrated that active synthesis of estrogen in the zebra finch brain, causing masculine patterns of neural development and

challenging the view of estrogen being a strictly gonadal steroid. Songbirds are unique among non-humans in their combination of vocal sophistication and experimental accessibility. Like humans, songbird vocalizations are learned and this learning process has close similarities to human speech. For example, FOXP2, the first gene linked to speech disorder in humans is also expressed in the neural song circuit of zebra finch, especially at times of vocal learning.

The project involves whole-genome analysis of molecular evolutionary processes in avian genomes. This will include analyses of, among other things, adaptively evolving genes, conserved non-coding DNAs, evolution of novel genes and expansion of gene families. The main source of data comes from the comparison of the chicken and zebra finch genomes, as part of the zebra finch genome sequencing project, however, there is also sequence data from additional bird species obtained through 454 sequencing. In addition, evolution of gene expression will be studied based on transcriptome profiling and population genomic analyses will be done based on large-scale SNP data.

The successful applicant must hold a PhD and should have experience from large-scale molecular evolutionary analyses using bioinformatic approaches. Programming skills are desirable. The position is for two years, with possibilities for extension, and is within a lab group of about 10 people including PhD students and international post-docs.

The position is immediately available and the search will remain open until the position is filled.

To apply, please send a CV, a description of research interest and the name and contact details of two references to Prof Hans Ellegren at Hans.Ellegren@ebc.uu.se (Dept of Evolutionary Biology, Norbyvägen 18D, SE-752 36 Uppsala, Sweden).

Further information about the laboratory can be found at <http://www.egs.uu.se/evbiol/Persons/Hans.html>
Hans.Ellegren@ebc.uu.se Hans.Ellegren@ebc.uu.se

UppsalaU SpeciationGenetics

A postdoc position available in Evolutionary Biology, Uppsala University, Sweden.

A postdoc position is available to study the genetics of speciation using *Ficedula flycatchers* as a model. The project has a strong cross-disciplinary approach and

will include sub-projects ranging from field experiments to QTL-mapping.

The position would be suitable for someone with a strong interest in evolutionary biology in general and in speciation in particular. The aim of the project is to approach central questions regarding the genetics of speciation. What is the relative importance of genetically determined traits (e.g. plumage) and plastic traits (e.g. song) to signal species identity? How many genetic substitutions are involved in the evolution of genetic incompatibility? In what genomic regions do these mutations occur? Breeding data and pairing patterns have already been collected for decades and blood samples from all breeding individuals and their offspring have been collected for seven years. Candidates should be able to work independently and have good organizational skills. The initial appointment is for two years, and can be extended, upon mutual agreement. This position is open for both Swedish and non-Swedish citizens.

$\frac{1}{2}$ Field work is carried out on the Swedish island of $\frac{1}{2}$ land in the Baltic during May and June. Lab work and data analyses are carried out at the Department of Ecology and Evolution in Uppsala.

The Evolutionary Biology Centre provides a highly stimulating research environment, having one of the largest concentrations of evolutionary biologists in Europe. This provides great potential for interdisciplinary research. See the EBC and Department websites:

$\frac{1}{2}$ <http://www.ebc.uu.se> <http://www.iee.uu.se/-zoekol/> $\frac{1}{2}$ HOW TO APPLY:

$\frac{1}{2}$ Please email a statement of interest and research goals (1 page max), CV and publications list, to Anna.Qvarnstrom@ebc.uu.se. In addition, you should arrange to have 2 referees send letters of recommendation to me by the closing date 16 December 2007.

$\frac{1}{2}$ Direct any questions about the position to Anna.Qvarnstrom@ebc.uu.se.

$\frac{1}{2}$ Anna Qvarnström, Animal Ecology/Dept. of Ecology and Evolution, Norbyvägen 18 D, Evolutionary Biology Centre, Uppsala University, SE-752 36 Uppsala, Sweden. Phone + 46 18 471 6406 Fax: +46 18 471 6484

anna.qvarnstrom@ebc.uu.se

UTexasArlington ApicomplexaEvolution

POSTDOCTORAL POSITION AVAILABLE

Genome Evolution, Innovation and Adaptation in the Apicomplexa. An NIH-funded postdoctoral associate position is available to work with the Pritham and Feschotte groups to study the repetitive landscape and influence of repetitive DNA on the evolution of apicomplexan genomes. Apicomplexans are unicellular, parasitic eukaryotes and include organisms such as Plasmodium, Toxoplasma or Cryptosporidium, which are the causative agents of some of most devastating diseases of man and animals, including malaria, toxoplasmosis and East Coast fever. The project fits within a broader collaborative effort on apicomplexa comparative genomics led by Jessica Kissinger at the University of Georgia (<http://mango.ctegd.uga.edu/jkissingLab/>).

This is a position for a computational biologist or a person with strong experience in computer-assisted sequence analyses. Research experience in molecular evolution, genomics or bioinformatics is required. An ability to work with UNIX and to program in PERL or PYTHON is preferred. The University of Texas, Arlington has a dynamic genome biology group and access to several powerful computer clusters. For more information concerning the research in the Pritham lab, Feschotte lab and in the genome biology group, please visit (<http://biology.uta.edu/genome.group/>). The project will also involve close interactions with the Kissinger lab at UGA.

Interested applicants should send a cv and three letters of reference to: Dr. Ellen Pritham, UTA Dept. of Biology, Box 19498, Arlington, TX 76019 or simply via email to pritham@uta.edu. The position is available immediately and funding is available for at least three years.

Ellen Pritham, Ph.D Assistant Professor Genome Biology Group Department of Biology Box 19498 University of Texas, Arlington Arlington, Texas 76019

817-272-0981 office 817-272-0523 lab 817-272-2855
fax pritham@uta.edu <http://www3.uta.edu/faculty/pritham/> Ellen Pritham <pritham@uta.edu>

UToronto 2 PlantEvolBiol

Two Post-Doctoral Positions in Plant Evolutionary Biology at the University of Toronto

Two post-doctoral positions will be available in my laboratory starting in 2008 for a period of 2-3 years, depending on progress. Start dates are negotiable. I am seeking motivated and independent individuals with backgrounds in ecological and evolutionary genetics with experience in genomics, and/or the use genetic markers, to work on projects concerning evolutionary transitions in plant reproductive systems. These transitions involve the evolution of selfing from outcrossing, and the evolution of separate sexes from combined sexes, including sex-ratio evolution. There are opportunities for both laboratory and field studies and for collaboration with the highly interactive group of faculty, PDFs and students in the new Department of Ecology & Evolutionary Biology at Toronto. There are also opportunities for the development of other projects related to plant reproductive systems. Salaries (\$35-40K depending on experience) and research funds will be supported by grants from the Canada Research Chair¹s Program, a Discovery Grant from NSERC, and a Premiers Discovery Award.

The EEB department at University of Toronto (<http://www.eeb.utoronto.ca>) has outstanding facilities including large modern glasshouses, a newly established field station (Koffler Scientific Reserve) and a range of genomics platforms including a Solexa Genome Analyzer and Affymetrix Facility. Toronto is a vibrant and safe multicultural city with excellent public transport, great arts and culture and ready access to lakes and wilderness areas.

The two positions are open to individuals of any nationality who hold a Ph.D. Applicants should provide a CV, a brief statement of research interests and arrange for letters of recommendation to be sent from two referees by e-mail.

For further information contact:

Spencer C.H. Barrett Department of Ecology & Evolutionary Biology. University of Toronto, 25 Willcocks St., Toronto, Ontario, Canada M5S 3B2

e-mail barrett@eeb.utoronto.ca phone 416-978-4151/5603 Laboratory Web Page <http://labs.eeb.utoronto.ca/barrett>

Spencer Barrett <barrett@eeb.utoronto.ca>

UWashington 3 SalmonAdaptation

School of Aquatic and Fishery Sciences, University of Washington, Seattle WA

Post-doctoral opportunities

Investigating responses of Pacific salmon to climate change

The School of Aquatic and Fishery Sciences at the University of Washington seeks qualified candidates for 3 post-doctoral Research Associate positions for a project beginning in November 2007. Appointments are for 2 years (100% FTE - 12 month). The focus of the appointment is to investigate responses of Pacific salmon to climate change. Successful applicants will conduct interdisciplinary studies investigating the responses of Pacific salmon to climate change under the supervision of Drs. Nathan Mantua, Daniel Schindler, and Robin Waples. This project has 3 main foci: (1) the development of freshwater habitat and productivity change scenarios for the 2020s, 2050s, and 2090s as a consequence of IPCC climate change scenarios; (2) assessing the relative importance of evolutionary vs. plastic responses of Pacific salmon to climate change; and (3) evaluating mechanisms that limit the current geographic range of salmon populations and exploring how these mechanisms may change under projected climate change scenarios. These positions are being established as part of a collaborative effort between the University of Washington's School of Aquatic and Fishery Sciences, NOAA's Northwest Fishery Science Center, and the National Center for Ecological Analysis and Synthesis (NCEAS) in Santa Barbara, CA.

We seek applicants with a strong interest in participating in innovative, collaborative, cross-disciplinary research, and strong writing and organizational skills.

Requirements:

Ph.D. in Aquatic Sciences, Biology, Ecological Science, Environmental Science, Natural Resource Management or a related field and expertise in at least one of the following areas:

* hydrologic modeling and regional downscaling of global climate change scenarios * evolutionary biology/evolutionary ecology * life history and ecology of fishes

Details

This project is part of a broader program to evaluate the effects of climate change on Pacific salmon, to be funded through the National Center for Ecological Analysis and Synthesis. The bulk of the work will be carried out by the three Research Associates, in conjunction with a Workgroup of top salmon biologists, evolutionary biologists, and atmospheric scientists who will refine the research plan, guide implementation, and direct efforts toward publishable products. The work will be in Seattle, at the University of Washington, Seattle, WA, with periodic gatherings at NCEAS to meet with the full Workgroup and coordinate with related projects. The overall project will begin November 15, 2007, and run for 30 months (until April 2010); postdoctoral positions will run for two years, starting any time from now until next spring. The University of Washington is an affirmative action, equal opportunity employer. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans. Interested parties should send via email a CV, a letter explaining their qualifications, 3 letters of recommendation and a proposed start date to Nathan Mantua using the contact info below. Review will begin immediately and continue until positions are filled. For successful candidates, a background check for criminal history is required.

Nathan Mantua School of Aquatic and Fishery Sciences, Box 355020 University of Washington Seattle, WA 98195-5020 <mailto:nmantua@u.washington.edu>

– If a little knowledge is dangerous, where is the man who has so much as to be out of danger?

Thomas Huxley, On Elemental Instruction in Physiology

Robin.Waples@noaa.gov Robin.Waples@noaa.gov

UZurich ThermalAdaptation

***** CALL FOR POST-DOC GRANT APPLICATIONS *****

In 2006 we launched a new ESF Programme on “Thermal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics” (ThermAdapt); see <http://www.esf.org/thermadapt> . The Objective of this ESF Programme is to foster a multidisciplinary European network of scientists working on thermal

adaptation. We particularly aim to integrate research at multiple levels of investigation, including genetics, physiology, ecology, behaviour or theory. Interested persons or groups are encouraged to join our activities. These include advertising their expertise via our web site, and participation in various activities to be announced separately and regularly over the next 5 years such as workshops, training courses, short and long exchange grants, exchange of specimens and expertise, sharing of facilities, and scientific collaboration of any kind.

If you wish to be included in the ThermAdapt e-mail list to receive regular updates on Programme activities, please send an email to edegott@esf.org.

We here Call for Applications for local organization of ==> Short Visit (< 15 days) and Exchange Grants (15 days - 3 months)

APPLICATION DEADLINE: 15. JANUARY 2008

The web site <http://www.esf.org/thermadapt> under > Grants features all guidelines and forms.

Proposals should be broadly related to the scientific objectives of the Programme. Short Visits may serve for planning collaborative research projects, brief data gathering or data analysis. The longer-term Exchange Grants typically involve planning and execution of a larger collaborative research project (under special circumstances stays longer than 3 months may be possible).

Grant applications will be chosen based on scientific quality, and priority will be given to applicants who come from or intend to visit countries supporting the programme (Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Hungary, Netherlands, Portugal, Slovenia, Spain, Switzerland), but other European nations can be involved.

For further inquiries contact:

Ellen Degott (ESF office liaison; Email: edegott@esf.org) Wolf Blanckenhorn (chair; Email: wolf.blanckenhorn@zm.uzh.ch) Mauro Santos (co-chair; Email: mauro.santos@uab.es)

Dr. Wolf Blanckenhorn Chairman ESF ThermAdapt Programme Zoological Museum University of Zurich-Irchel 34 (building)-J (floor) -98 (office) Winterthurerstrasse 190 CH-8057 Zurich

Phone: +41 44 635.47.55 Fax: +41 44 635.47.80 e-mail: wolf.blanckenhorn@zm.uzh.ch <http://www.esf.org/thermadapt> wolfman@zm.uzh.ch wolfman@zm.uzh.ch

WilliamsCollege Bioinformatics

HHMI Postdoctoral Research Fellow in Bioinformatics, Genomics and Proteomics

Williams College, a top-ranked, highly selective liberal arts college, seeks to hire a postdoctoral fellow in its Bioinformatics, Genomics and Proteomics (BIGP) Program. This position is funded by a Howard Hughes Medical Institute grant to encourage future faculty development. Each HHMI Fellow will conduct independent research under the mentorship of one of the 20 members of the BIGP Program at Williams (<http://www.williams.edu/BIGP>). In this context, each Fellow will assist in supervising undergraduate students performing thesis and independent research and will teach one BIGP Winter Study course of his/her own design.

This position for a scientist with training in bioinformatics, genomics, and/or proteomics is ideally suited for those who seek teaching and research experience at a premiere liberal arts college. Candidates must have a recent Ph.D. in a relevant field. This is a full-time, one-year position with flexible start dates and the possibility of renewal for one additional year. Salary is competitive and funds for professional travel are included. The deadline for receipt of applications is November 9, 2007.

Please send a cv, three letters of reference, and a cover letter that

1.) identifies a potential Williams College research mentor, 2.) states whether and/or how your research interests overlap with any other research areas being investigated by members of the BIGP program, 3.) includes a proposed title and a few sentences describing a one-month BIGP course you might teach, and 4.) includes job number (300259-SCIENCE) to the address below.

Only complete applications will be accepted.

Office of Human Resources Williams College, 100 Spring Street, Suite 201

—
Jason A. Wilder Assistant Professor of Biology Williams College Williamstown, Massachusetts 01267 413-597-4811 (phone) 413-597-3495 (fax) jwilder@williams.edu

WorkshopsCourses

Aspen ProteinEvolution Aug10-31	99	UZurich ThermalAdaptation	100
ULiverpool GeneExpressionEvolution Dec5	99		

Aspen ProteinEvolution Aug10-31

Evolution: From Atoms to Organisms August 10 - August 31 Aspen Center for Physics
<http://www.aspenphys.org/documents/program/-summerworkshops.html> Organizers: Eugene Shakhnovich, Eugene Koonin, Claus Wilke

The workshop will emphasize protein evolution on all scales, with the goal to link genomics, protein biochemistry and protein physics to organismal phenotypes and fitness. We are therefore very interested in bringing together a diverse community of scientists with interests ranging from fundamental statistical mechanics to population genetics and everything in between.

Workshops at the ACP differ from more conventional conferences or workshops. There is no rigid program; participants are encouraged to talk informally and develop (and carry out) exciting new research ideas. Participants are usually expected to stay for at least two weeks (though exceptions are possible).

There are three important issues we have to highlight:
 1. Funding for this workshop consists primarily of a housing subsidy. You should expect to cover your own travel, and pay a registration fee and part of the housing costs. See Aspen-Center-for-Physics website for costs.

2. This is a workshop for experienced scientists, not a summer school. The Aspen Center for Physics generally does not accept applications by graduate students.

3. If you are interested in attending the workshop, please apply electronically before January 31, 2008 at this site: <https://db.aspenphys.org/fmi/iwp/cgi?-db=ACP&-loadframes> Note that the final decision of who

can attend the workshop will be made by the ACP admissions committee, not by the workshop organizers.

For additional information, contact any of the organizers: Eugene Shakhnovich: eugene_at_belok.harvard.edu Eugene Koonin: eugene_at_ncbi.nlm.nih.gov Claus Wilke: cwilke_at_mail.utexas.edu

cwilke@mail.utexas.edu cwilke@mail.utexas.edu

ULiverpool GeneExpressionEvolution Dec5

Evolution of stochastic gene expression A one-day workshop, Wednesday 5 December 2007, University of Liverpool. Co-organizers: Michael Brockhurst, Claire Harper, Matthew Spencer. Background This workshop will bring together systems biologists, mathematicians, and evolutionary biologists to explore the evolutionary causes and consequences of stochastic gene expression, and to come up with ideas for experimental tests of hypotheses in these areas.

Gene expression is stochastic in both prokaryotes and eukaryotes. Reasons for this include intrinsic biochemical noise, and fluctuations in the state of other components of the cell. It has been suggested that the level of stochasticity is an evolvable trait, and that stochastic gene expression is sometimes beneficial to clonal populations as a way of maximizing population growth rate. Some theory already exists, but there is scope for much more sophistication at the ecological and systems biology levels. In principle, predictions from models of stochastic gene expression are testable in bacterial mi-

crocossms. This will require techniques for maintaining long-term environmental stochasticity and measuring gene expression in individual bacterial cells. Work in this area will therefore require collaboration between researchers with expertise in systems biology (measurement of gene expression), experimental microbial evolution (manipulation of environmental stochasticity), and theoretical evolutionary biology/applied mathematics (modelling optimal levels of stochasticity).

Confirmed speakers Robert Beardmore, Department of Mathematics, Imperial College. Resource-mediated diversity in bacteria-phage coevolution.

Nils Blüthgen, Systems Biology Group, Manchester Interdisciplinary Biocenter, University of Manchester. Noise reduction strategies in mammalian signal transduction.

Chris Knight, Manchester Centre for Integrative Systems Biology, Manchester Interdisciplinary Biocentre, University of Manchester. How a single adaptive mutation affects the protein co-regulation network.

Dean Jackson, Faculty of Life Sciences, Manchester Interdisciplinary Biocentre, University of Manchester. Analysis of transcription within single mammalian cells.

Programme Exact times to be announced. Invited speakers will give presentations in the morning. Following lunch, there will be an optional afternoon session in which discussion groups will focus on specific biological questions. Each group will give a short informal summary at the end of the day.

Registration Advance registration is free, but is required no later than 23 November 2007, by email to m.spencer at liverpool dot ac dot uk. Please let me know any special dietary requirements, and whether you plan on attending for the whole day or just the morning session and lunch.

Location The workshop will be held in the Foresight Centre, building 97 on the map.

Mike Brockhurst

Mike Brockhurst <michael.brockhurst@liverpool.ac.uk>

UZurich ThermalAdaptation

***** CALL FOR WORKSHOP GRANT APPLICATIONS *****

In 2006 we launched a new ESF Programme on “Ther-

mal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics” (ThermAdapt); see <http://www.esf.org/thermadapt> . The Objective of this ESF Programme is to foster a multidisciplinary European network of scientists working on thermal adaptation. We particularly aim to integrate research at multiple levels of investigation, including genetics, physiology, ecology, behaviour or theory. Interested persons or groups are encouraged to join our activities. These include advertising their expertise via our web site, and participation in various activities to be announced separately and regularly over the next 5 years such as workshops, training courses, short and long exchange grants, exchange of specimens and expertise, sharing of facilities, and scientific collaboration of any kind.

If you wish to be included in the ThermAdapt e-mail list to receive regular updates on Programme activities, please send an email to edegott@esf.org.

We here Call for Applications for local organization of ==> WORKSHOPS / SCIENCE MEETINGS on specific topics relating to the ThermAdapt Programme <APPLICATION DEADLINE: 15. JANUARY 2008

The web site <http://www.esf.org/thermadapt> under > Science Meetings features all guidelines and forms.

Such workshops, financed by our ESF programme if approved and planned to occur on an annual basis over the next 5 years, bring together between 10 and 50 participants for 2 to 4 days to focus on specific issues of thermal adaptation.

Workshop grant applications will be chosen based on scientific quality, and priority will be given to applicants who come from or intend to visit countries supporting the programme (Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Hungary, Netherlands, Portugal, Slovenia, Spain, Switzerland), but other European nations can be involved.

For further inquiries contact:

Ellen Degott (ESF office liaison; Email: edegott@esf.org) Wolf Blanckenhorn (chair; Email: wolf.blanckenhorn@zm.uzh.ch) Mauro Santos (co-chair; Email: mauro.santos@uab.es)

Dr. Wolf Blanckenhorn Chairman ESF ThermAdapt Programme Zoological Museum University of Zurich-Irchel 34 (building)-J (floor) -98 (office) Winterthurerstrasse 190 CH-8057 Zurich

Phone: +41 44 635.47.55 Fax: +41 44 635.47.80 e-mail: wolf.blanckenhorn@zm.uzh.ch <http://www.esf.org/thermadapt> wolfman@zm.uzh.ch wolfman@zm.uzh.ch

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 L^AT_EX 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 L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.