
E v o l D i r

September 1, 2006

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

Forward

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

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

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



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Conferences

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Bangkok MEEGID8 NOv30-Dec4

MEEGID VIII - Nov. 30 to Dec. 4 2006 - Bangkok (Thailand) "Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases" (<http://www.th.ird.fr/events/2006/meegid.htm>).

Call for abstracts for the Symposium on "Integrative models for the dynamics of antigenically-diverse pathogens", chaired by Gabriela Gomes (Instituto Gulbenkian de Ciéncia, Portugal) and Olivier Restif = (University of Cambridge, UK).

Deadline: September 30th.

Progress towards the control and eradication of infectious diseases has been seriously challenged by adaptive diversification and evolution of pathogens. The key to a better understanding, and ultimately control of these processes lies in innovative, multi-disciplinary approaches, including microbiology, genetics, immunology, evolutionary biology and epidemiology. Mathematical models can play a pivotal role in this challenge, by reconciling and assembling key concepts from those diverse areas of research. As shown recently with SARS or (prospective) pandemic influenza, models can tackle real-life scenarios and produce quantitative predictions for public health policies. Dialogue and concerted re-

search between all actors of the biomedical community need to be fostered by all means. MEEGID VIII will provide a great opportunity to discuss and promote mathematical models for infectious diseases among the broader scientific and medical community. In line with the objectives of the conference, we will favour contributions that emphasize applications of models relevant to South-East Asia in particular and tropical diseases in general.

Information and abstract submission can be e-mailed to Olivier Restif (or226@cam.ac.uk)

Dr. Olivier Restif CIDC - Disease Dynamics Unit Dept. of Veterinary Medicine University of Cambridge Madingley Road Cambridge CB3 0ES Great-Britain

Tel: +44 (0)1223 337685 Fax: +44 (0)1223 764667

<http://www.vet.cam.ac.uk/cidc/> <http://www.zoo.cam.ac.uk/zoostaff/grenfell/people/-olivier.htm> or226@cam.ac.uk or226@cam.ac.uk

Cambridge StatGenetics Dec11-15

Isaac Newton Institute for Mathematical Sciences, Cambridge, UK

Recent Advances in Statistical Genetics and Bioinformatics

Monday 11 December to Friday 15 December 2006

in association with the Newton Institute programme Stochastic Computation in the Biological Sciences (23 October to 15 December 2006)

Workshop Organisers: Wally Gilks (Leeds) and Simon Tavaré (USC/Cambridge)

Theme of Workshop: The workshop will focus on topics from bioinformatics and statistical genetics. Bioinformatics has grown up around the rapidly expanding databases of DNA sequence, molecular structure and interaction. Understanding the evolutionary and functional relationships between these biomolecules is perhaps the greatest challenge of 21st century science. Advanced statistical methods are becoming increasingly important in this endeavour. The arrival of dense genotyping arrays has provided huge amounts of SNP data which are being used in efforts to map genes associated with complex traits. Statistical methods for designing and analyzing such whole genome scans are beginning to appear, but many open problems remain. The use of SNP data to estimate recombination rates across the genome, to detect evidence of selective sweeps and to infer demographic history has also provided some statistical challenges that will be addressed in the workshop.

Confirmed Speakers: Andrew Clark (Cornell), Manolis Dermitzakis (Sanger Institute), Peter Donnelly (Oxford), Peter Green (Bristol), Jotun Hein (Oxford), Nick Patterson (Broad Institute), Bruce Ponder (Cambridge), Sylvia Richardson (Imperial), Alun Thomas (Utah), Janet Thornton (EBI), Lorenz Wernisch (Birkbeck), Ziheng Yang (UCL).

Location and Cost: The workshop will take place at the Newton Institute and accommodation for participants will be provided in a single study bedroom with shared bathroom at Wolfson Court. The workshop package, costing 500GBP, includes accommodation, breakfast and dinner from dinner on Sunday 10 December to breakfast on Saturday 16 December 2006, and lunch and refreshments during the days that lectures take place. Participants who wish to attend but do not require the workshop package will be charged a registration fee of 40GBP. Self-supporting participants are very welcome to apply.

Further Information and Application Forms are available from the WWW at:

<<http://www.newton.cam.ac.uk/programmes/SCB/-scbw02.html>> Completed application forms should be sent to Tracey Andrew at the address below, or via

email to: <t.andrew@newton.cam.ac.uk>

Closing Date for the receipt of applications is 29 September 2006

Tracey Andrew Programme and Visitor Officer Isaac Newton Institute 20 Clarkson Road Cambridge CB3 0EH UK

Tel: + 44 1223 335984 Fax: + 44 1223 330508

<http://www.newton.cam.ac.uk/> Tracey Andrew
<tlh1000@newton.cam.ac.uk>

DavosSwitzerland BiodiversityConservation Nov23-24

Announcement of Conference

Biodiversity Conservation - From Genes To Habitats

Location Congress Center Davos, Switzerland Date 23/24 November, 2006 Registration until 30 September, 2006 at <http://www.wsl.ch/intrabiodiv> Biodiversity is a key parameter for ecosystem functioning. Conservation efforts need to consider all three levels of biodiversity - habitats, species and genes. However, genetic diversity has been largely ignored to date and empirical studies are lacking. The EC-funded project INTRABIODIV elucidates the relationships between the three biodiversity levels, exemplified on plant diversity in the European Alps and the Carpathians. The results should provide a basis for decisions on conservation areas. The conference Biodiversity Conservation - From Genes to Habitats aims at demonstrating the latest research results in biodiversity conservation and their relevance for the protection of our natural resources. This event will provide a platform for those interested in the conservation of biodiversity such as scientists, governmental agencies, non-governmental organizations, or politicians. The goal is to bridge the gap between scientific outcomes and their implementation in practical management and conservation.

Please visit our website for further information and registration <http://www.wsl.ch/intrabiodiv> The organizing committee welcomes your participation in this conference.

Felix Gugerli, Swiss Federal Research Institute WSL, Birmensdorf (CH) Pierre Taberlet, University Joseph Fourier, Grenoble (F) Zbigniew Mirek, Polish Academy of Science, Krakow (P) Benoît Lequette, Parc National de Mercantour (F)

felix.gugerli@wsl.ch

DunedinNZ Evolutionary Physiology Jul1-7

2nd International Symposium on the Environmental Physiology of Ectotherms and Plants (ISEPEP2)

ISEPEP arose from two previous meetings: the International Symposium on the Cold Hardiness of Animals and Plants and the European Workshop on Invertebrate Ecophysiology. It aims to cover the environmental physiology of invertebrates, plants and vertebrate ectotherms (fish, amphibians, reptiles).

Dunedin, New Zealand 1 - 6 July 2007 <http://www.otago.ac.nz/isepep2/> musolin@gmail.com

Fribourg BioInvasions Oct2-3

Dear all,

please note that we have extended the deadline for abstract submissions until AUGUST 12, 2006.

***** AN EVOLUTIONARY PERSPECTIVE OF BIOLOGICAL INVASIONS *****

Symposium organised by Heinz Müller-Schärer, Thomas Steinger, Antoine Guisan, and Luc Gigord 2-3 October 2006, Fribourg/Switzerland

<http://www.unifr.ch/biol/ecology/biolinv> We are organising an international symposium on evolutionary processes of biological invasions. We try to bring together scholars from both ecology and evolution, and from plant and animal biology to discuss concepts and new developments in this greatly expanding research field.

We have invited a number of internationally renowned scientists to give plenary lectures, but we also have time for approximately 18 talks by younger researchers (PhD students & post-docs).

Invited speakers: Spencer C.H. Barrett (Univ. of Toronto, Canada) Ragan M. Callaway (Univ. of Montana, USA) Jes Pedersen (Univ. of Copenhagen, Denmark) Kevin Rice (Univ. of California at Davis, USA)

Martin A. Schlaepfer (Univ. of Texas at Austin, USA)
Bernhard Schmid (Univ. of Zurich, Switzerland)

The symposium will be free, but registration is necessary.

Deadline for abstract submission: August 12
Deadline for registration: September 1

The symposium is generously funded by the "Troisième Cycle" Program of the Conférence Universitaire de Suisse Occidentale (CUSO).

Best regards,

Heinz Müller-Schärer (heinz.mueller@unifr.ch)
Thomas Steinger (thomas.steinger@unifr.ch)
Antoine Guisan (antoine.guisan@unil.ch)
Luc Gigord (luc.gigord@unil.ch)

thomas.steinger@unifr.ch thomas.steinger@unifr.ch

IndianaUBloomington OriginofNovelFeatures Oct6-8 RegDeadlineExtended

REGISTRATION AND ABSTRACT SUBMISSION DEADLINES EXTENDED TO SEPT 4

Symposium on "The Origin of Novel Features", October 6-8, 2006

The graduate student affiliates of the Indiana University / University of Oregon IGERT in Evolution, Development and Genomics would like to extend an invitation to attend our upcoming symposium entitled "The Origin of Novel Features" on October 6-8, 2006 on the IU campus in Bloomington, IN. This topic has been chosen because it lies at the heart of evolution of development (evo-devo) today. While much of evo-devo has traditionally focused on deep connections in macro-evolution, more micro-evolutionary perspectives and approaches are now entering the field. This makes it possible to ask the difficult and exciting question—how do qualitatively new features arise in evolution? We have assembled an interdisciplinary group of speakers conducting important research towards this aim. These speakers represent a diversity of ideas and organisms (from dung beetles to humans) and utilize multiple methodologies (from molecular biology to eco-devo).

Mary Jane West-Eberhard will give the keynote address and confirmed speakers include: Rudy Raff, Nancy Moran, Armin Moczek, Paul Brakefield, Rich Lenski,

Jonathan Wendel, Lynda Delph, Bruce Lahn, Arhat Abzhanov, Tom Kocher, Massimo Pigliucci, David Stern, Gunter Wagner, and Patrick Phillips.

More information about this symposium, including a detailed schedule, list of speakers, and information on accommodations and poster submission, is available at our website:

<http://www.bio.indiana.edu:16080/events/igert/> The registration and poster abstract submission deadlines have been extended until ****September 4****. If you have any questions, please email jkedzie@indiana.edu.

bkblackm@indiana.edu bkblackm@indiana.edu

IndianaUBloomington OriginofNovelFeatures October6-8

****TEN DAYS UNTIL REGISTRATION DEADLINE****

Symposium on “The Origin of Novel Features”, October 6-8, 2006

The graduate student affiliates of the Indiana University / University of Oregon IGERT in Evolution, Development and Genomics would like to extend an invitation to attend our upcoming symposium entitled “The Origin of Novel Features” on October 6-8, 2006 on the IU campus in Bloomington, IN. This topic has been chosen because it lies at the heart of evolution of development (evo-devo) today. While much of evo-devo has traditionally focused on deep connections in macro-evolution, more micro-evolutionary perspectives and approaches are now entering the field. This makes it possible to ask the difficult and exciting question—how do qualitatively new features arise in evolution? We have assembled an interdisciplinary group of speakers conducting important research towards this aim. These speakers represent a diversity of ideas and organisms (from dung beetles to humans) and utilize multiple methodologies (from molecular biology to eco-devo).

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More information about this symposium, including a detailed schedule, list of speakers, and information on

accommodations and poster submission, is available at our website:

<http://www.bio.indiana.edu:16080/events/igert/>

The early registration deadline is ****August 11****. The poster abstract submission deadline is August 25. If you have any questions, please email jkedzie@indiana.edu.

bkblackm@indiana.edu bkblackm@indiana.edu

KansasCity EcolGenomics Nov3-5 AbstractsDueSep15

Register now to attend the 4th Annual Ecological Genomics Symposium on November 3-5, 2006, at The Sheraton Hotel in the Overland Park area of Kansas City. The Genes in Ecology, Ecology in Genes Symposium will begin on Friday, Nov. 3, at 6:00 p.m. and conclude on Sunday, Nov. 5, at noon. For a complete brochure, poster abstract submission information, registration, and hotel reservations, visit our Symposium website, www.ksu.edu/ecogen/symp2006.html.

Ecological Genomics combines genomic tools and ecological approaches to determine the functional significance of genes and genomes and their evolutionary and ecological context. The Symposium will feature lectures by scientists at the forefront of Ecological and Evolutionary Functional Genomics. Participants will also learn about the Ecological Genomics Institute at Kansas State University that includes 25 faculty members in seven disciplines.

Featured speakers:

Ian T. Baldwin, Max-Planck Institute for Chemical Ecology, “Using transformed plants to study ecological interactions”

May R. Berenbaum, University of Illinois at Urbana-Champaign, “Cytochrome P450 genes and genomics in insect-plant interactions: Necessity or nimety?”

Justin Fay, Washington University, “Evolution of gene expression”

Maria J. Harrison, Cornell University, “Towards an understanding of the arbuscular mycorrhizal symbiosis: Functional genomics approaches”

Michael W. Nachman, University of Arizona, “The genetic basis of reproductive isolation in mice”

Katie Peichel, Fred Hutchinson Cancer Research Cen-

ter, “Genetics of reproductive isolation in sticklebacks”
Loren Rieseberg, Indiana University, “Genomics of invasive sunflowers”

John H. Willis, Duke University, “Genetic analysis of adaptation and reproductive isolation in *Mimulus*”

Patricia Wittkopp, University of Michigan, “Genetic basis of regulatory variation”

Poster Abstracts:

Participants are invited to share their own research at poster sessions on Friday night and Saturday. Please follow the abstract submission guidelines and submit online before September 15, 2006. A limited number of submitted poster abstracts will be selected for oral presentation. Poster topics should be related to the field of Ecological Genomics.

Please share this announcement with colleagues and students who are interested in learning more about the integrative field of Ecological Genomics. If you have any questions, please contact us at (785) 532-3482 or ecogen@ksu.edu. Additional information about this interdisciplinary research initiative is available at www.ksu.edu/ecogen.

DEADLINES:

9/15/06 Poster Abstracts due

9/29/06 Early Registration

10/13/06 Hotel Reservations

Funding for this symposium is provided by Kansas State University.

Project Directors:

Dr. Loretta Johnson and Dr. Michael Herman

Doris Merrill, Program Coordinator

Ecological Genomics Institute

Kansas State University, Division of Biology

116 Ackert Hall, Manhattan, KS 66506-4901

(785) 532-3482, dmerrill@ksu.edu

www.ksu.edu/ecogen

LancasterU StatGenet Sept25-26

Dear all,

Lancaster University will hold two Statistical Genomics

days in memory of Nick Smith on Monday 25th and Tuesday 26th September.

Monday consists of a short course on statistical genomics, whereas Tuesday comprises a series of talks from Lorenz Wernisch, Laurence Hurst, Adam Eyre-Walker, Chris Holmes and David Balding.

For full details and to register visit <http://www.maths.lancs.ac.uk/departments/events/-conferences/bioinformatics> There are still a number of places left - the DEADLINE is Thursday 31st August.

Best wishes, Danny Wilson

– Dr. Daniel Wilson Research Associate in Genetics Department of Maths and Statistics Lancaster University Lancaster LA1 4YF, U.K.

Lund Speciation Sept27-28

SPECIATION SYMPOSIUM IN LUND (SWEDEN)

We wish to draw your attention to a symposium entitled Speciation: from diversification to reproductive isolation that will take place in Lund (Sweden) between September 27- September 28 2006. The symposium is open everyone that is interested, and there will also be opportunities for short presentations of own research in addition to invited plenary speakers.

Deadline for signing up for this symposium is August 30 2006. Send an e-mail to Gunilla Lindquist (Gunilla.Lindquist@zoekol.lu.se) to sign up. Please also indicate whether you wish to give a research presentation (10-15 minutes) or not, if you intend to participate in an informal symposium dinner on September 28, and if so, if you are vegetarian. The symposium is cost free, apart from 100 SEK that will be paid upon arrival to cover the costs of the symposium dinner.

Invited speakers:

Scott Armbruster University of Portsmouth, UK
Ulf Dieckmann IIASA, Austria
Kerstin Johansson Göteborg University, Sweden
Olle Leimar Stockholm University, Sweden
Ben Sheldon University of Oxford, UK
Rhonda Snook University of Sheffield, UK
Jon Ågren Uppsala University, Sweden

More information, including accommodation and transportation information can be found at: <http://www.diversification.ekol.lu.se/> rtsmouth, UK

<http://www.diversification.ekol.lu.se/> We wish you all welcome to Lund!

On behalf of the organizing committ e,

Erik Svensson erik.svensson@zoekol.lu.se

Erik Svensson Associate Professor Section for Animal Ecology Ecology Building SE-223 62 Lund SWEDEN

Phone: +46 46 222 38 19 Mobile Phone: +46 0705 97 04 03 Fax: +46 46 222 47 16

<http://www.biol.lu.se/zoekologi/epb/people-en/es-en/es-en.htm> "Nothing in biology makes sense, except in the light of evolution" (Theodosius Dobzhansky)

Erik Svensson <erik.svensson@zoekol.lu.se>

Madrid ForestGenet Oct1-6

Dear colleagues,

We kindly remind you that the deadline for early registration (reduced fees) in the IUFRO-COST Conference on Population Genetics and Genomics of Forest Trees: from Gene Function to Evolutionary Dynamics and Conservation, Madrid 1st-6nd October 2006, is August 31st.

Please, also notice that the abstracts of the selected oral and poster communications have been uploaded to our web site (<http://www.genfor2006.fgua.es/>).

Best regards,

Santiago C. Gonz alez-Mart nez On behalf of the Conference Secretariat

santiago@inia.es

Manchester BioSysBio2007 Jan11-13

Registration is now open for BioSysBio 2007 <<http://www.biosysbio.com/>>, Manchester UK, Jan 11th-13th 2007. First abstract deadline is Fri Sep 15th 2006 for talk and poster abstracts. For, although not limited to, the following sessions:

Roland Eils - DKFZ (German Cancer Research Centre) Gene regulation and profiling

Douglas Kell - University of Manchester, UK Metabolomics and machine learning: quantitative bioanalysis for systems biology

Nicolas Le Novere - European Bioinformatics Institute, UK Modeling and databases in systems Biology

Randy Rettberg - MIT (Massachusetts Institute of Technology), USA Synthetic Biology and iGEM

Herbert Sauro - Keck Graduate Institute, USA Herbert Sauro Modeling and modularity, tools for systems biology

Sarah Teichmann - Laboratory of Molecular Biology, Cambridge, UK Gene regulatory networks, Structural and Computational Genomics

Chris Voigt - UCSD (University of California, San Diego) USA Synthetic Biology

Registration Early bird: register and pay before Fri Oct 20th. You will be notified if your abstract has been accepted for a talk or poster on Mon Oct 16th 2006. (price after 20th Oct). £75 (£125) Student/postdoc, £125 (£175) Faculty, £200 (£250) Industry.

Abstract submission The best abstracts will be selected for publication in BMC Bioinformatics. The first abstract deadline is Fri Sep 15th 2006. See www.BioSysBio.com <<http://www.biosysbio.com/>> for more details.

Sponsors Academic sponsors: BBSRC, UKBF, SBF, MCISB Industrial Sponsor: Genent, Computational Chemistry Group In association with: YBF, OpenWare, ISCB Student Council

- Dr Colin A. M. Semple Head of Bioinformatics MRC Human Genetics Unit Edinburgh EH4 2XU, UK Tel: +44 (0)131 332 2471 x4013 Fax: +44 (0)131 467 8456 Email: Colin.Semple@hgu.mrc.ac.uk Web: <http://www.hgu.mrc.ac.uk/Users/Colin.Semple/> colins@hgu.mrc.ac.uk

NHMLondon MolluscanEvol Nov2

Molluscan Forum

2nd November 2006, 10.00 am - 5.30 pm

Natural History Museum, London

LAST CALL FOR REGISTRATIONS AND PAPERS

!!!Deadline for registration and submission of abstracts: 30th September!!!

This informal, annual meeting is designed to bring together people starting their research on molluscs, to give them the opportunity to present and discuss their

work and to compare notes on methods and problems. Attendance is open to all, but speakers and poster presenters should be research students, post-doctoral researchers, undergraduates starting molluscan projects or dissertations, and amateurs engaged in substantial projects, which have not yet been published. Any topic related to molluscs is acceptable: palaeontological, physiological, behavioural, ecological, systematic, morphological or molecular.

Short talks (15 mins) or posters may be offered. They need not be polished accounts of completed work: descriptions of new methods, work in progress, appeals for assistance with unsolved problems are equally acceptable. Powerpoint presentations are the usual form, but should be discussed in advance (see registration form overleaf).

In addition to talks and posters there will be opportunities to acquire reprints contributed by members of the Society. The forum will end with a wine reception.

There is no registration fee; a limited amount of help with travel costs will be available for presenters who cannot claim them from elsewhere.

Enquiries and registrations to: Dr Georges B. Dusart, Canterbury Christ Church University, Canterbury CT1 1JK (tel: +0227 767700, email: gbd1@Canterbury.ac.uk) or to Manuel Malaquias, Zoology Department, Natural History Museum, Cromwell Road, London SW7 5BD (email: manm@nhm.ac.uk). Non-presenters: please let us know you will be coming so that we may estimate numbers.

Manuel Ant?nio E. Malaquias Natural History Museum Mollusca Research Group, Department of Zoology Cromwell Road, SW7 5BD London, United Kingdom

Email: m.malaquias@nhm.ac.uk Tel: 00-44-(0)2079425949 / +(0)2079425774 Fax: 00-44-(0)2079425054 Mobile phone: 00-44-(0)7742971138 <http://www.nhm.ac.uk/research-curation/staff-directory/zoology/cv-5985.html> Manuel Malaquias <m.malaquias@nhm.ac.uk>

Venue: Flett Lecture Theatre, Natural History Museum, London, UK

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

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

Registration is FREE. Please let us know if you wish to attend. Send applications by e-mail to Juliet Brodie (j.brodie@nhm.ac.uk), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, molecular and other research.

Abstracts must be submitted by e-mail in English no later than 17th November 2006. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

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

Dr Jonathan Bennett Department of Botany The Natural History Museum London SW7 5BD United Kingdom

Tel: +44 (0)20 7942 5107 Fax: +44 (0)20 7942 5529 e-mail: j.bennett@nhm.ac.uk <http://www.nhm.ac.uk/solanaceaesource> j.bennett@nhm.ac.uk
j.bennett@nhm.ac.uk

NHMLondon
YoungSystematistsForum Dec7

8TH YOUNG SYSTEMATISTS' FORUM

Thursday, 7th December 2006, 10 am

UNCGreensboro SEPEEG
Sept22-24

SouthEastern Population Ecology and Evolutionary Genetics

September 22-24, 2006 We are happy to announce the

annual SEPEEG (formally SEEPAGE) meeting, hosted this year by The University of North Carolina Greensboro.

The meeting will take place September 22-24, 2006 at The Summit, a conference center approximately 20 miles north of the UNCG campus, which is in downtown Greensboro. The conference registration fee will cover on-site housing, meals, and entertainment. Participants may register to give an oral presentation and/or poster. A poster session will be held during the social event after the keynote address on Saturday evening. Students and postdocs are especially encouraged to give presentations. Keynote Speaker: Dr. Ed Vargo, North Carolina State University

For information and registration go to <http://www.uncg.edu/bio> and click on SEPEEG under 'upcoming events.' Organizers: Elizabeth Lacey David Remington Olav Rueppell Malcolm Schug Email: mdschug@uncg.edu

MalcolmSchug Associate Professor Biology Department 301 Eberhart Building University of North Carolina Greensboro Greensboro, NC 27402 336-256-0086 (Office) 336-334-5839 (Fax) www.uncg.edu/~mdschug mdschug@uncg.edu mdschug@uncg.edu

UNCGreensboro SEPEEG Sept22-24 2

SouthEastern Population Ecology and Evolutionary Genetics

September 22-24, 2006

We are happy to announce the annual SEPEEG (formally SEEPAGE) meeting, hosted this year by The University of North Carolina Greensboro.

The meeting will take place September 22-24, 2006 at The Summit, a conference center approximately 20 miles north of the UNCG campus, which is in downtown Greensboro.

The conference registration fee will cover on-site housing, meals, and entertainment.

Participants may register to give an oral presentation and/or poster. A poster session will be held during the social event after the keynote address on Saturday evening. Students and postdocs are especially encouraged to give presentations.

Keynote Speaker: Dr. Ed Vargo, North Carolina State University

For information and registration go to <http://www.uncg.edu/bio> and click on SEPEEG under 'upcoming events.'

Organizers:

Elizabeth Lacey David Remington Olav Rueppell Malcolm Schug

Email: mdschug@uncg.edu

Malcolm Schug Associate Professor Biology Department 301 Eberhart Building University of North Carolina Greensboro Greensboro, NC 27402

336-256-0086 (Office) 336-334-5839 (Fax)
www.uncg.edu/~mdschug

mdschug@triad.rr.com

UNC Greensboro SEPEEG Sept22-24

SouthEastern Population Ecology and Evolutionary Genetics

September 22-24, 2006

The Registration Deadline is September 1. Please register as soon as possible because we need to give the conference center a firm number of attendees soon.

We are happy to announce the annual SEPEEG (formally SEEPAGE) meeting, hosted this year by The University of North Carolina Greensboro.

The meeting will take place September 22-24, 2006 at The Summit, a conference center approximately 20 miles north of the UNCG campus, which is in downtown Greensboro.

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Keynote Speaker: Dr. Ed Vargo, North Carolina State University

For information and registration go to <http://www.uncg.edu/bio> and click on SEPEEG under 'up-

coming events.'

Organizers:

Elizabeth Lacey David Remington Olav Rueppell Malcolm Schug

Email: mdschug@uncg.edu Email: mdschug@uncg.edu

Washington FelineRetroviruses Oct8-11

Dear Colleague,

Please join us for the 8th International Feline Retrovirus Research Symposium in Washington DC October 8-11, 2006. The conference promises to be an innovative and exciting look at retroviral research, and this year will also include speakers on cat genomics and advances in the cat as a model in other infectious diseases: our program will begin with a presentation on the cat as a vector/model for influenza research by Albert D. M. E. Osterhaus.

Please visit the conference website at <http://ifrrs8.ncifcrf.gov> for additional information, submission of abstracts, and registration. Please note that the final deadline for abstracts for talks is September 1, 2006, and for posters September 8, 2006, which is also the early registration discount deadline.

This is an exciting time for feline infectious disease research and also feline genomics. The 2006 completion of the cat whole genome sequence holds great promise for expanding the role of the cat as a model of infectious disease. We anticipate a unique blend of talks at the conference, including the following:

* Mauro Bendinelli, Therapies for FIV and applications for HIV disease * Edward Breitschwerdt, Bartonellosis in the cat * Meredith Brown, Genetic characterization of FeLV in Florida panthers * John Elder, Molecular mechanisms of FIV infection * James G. Fox, Helicobacter infection in the cat * William Hardy, To be announced * Regina Hoffmann-Lehmann, Molecular biology of FeLV infection and vaccination * Edward A. Hoover, Susceptibility of dendritic cells to FIV infection * Oswald Jarrett, To be announced * Laura Levy, Advances in understanding molecular determinants in FeLV pathology * Hans Lutz, Diagnosis of Feline Leukemia Virus (FeLV) Infection * Takayuki Miyazawa, To be announced * Stephen J O'Brien, The cat genome project: human & veterinary biomedical

implications * Albert D. M. E. Osterhaus, The cat as a vector/model for influenza research * Craig Packer, Emerging diseases in free-ranging African lions * Colin Parrish, Parvoviral disease in Felidae * Jill Pecon-Slattery, Retroviral evolution in the Felidae * Mauro Pistello, FIV accessory genes vaccination * Eric M. Poeschla, FIV as a lentiviral vector * Joan Pontius, Annotation of the feline genome * Mary Poss, FIV disease in free-ranging cougars * Alfred L. Roca, Endogenous feline retroviruses * Melody Roelke, Disease in Florida panthers * Peter J. M. Rottier, Molecular determinants in FIP infection * Mary B. Tompkins, Immune dysfunction and dysregulation in FIV Disease * Jennifer Troyer, FIV transmission: an evolutionary perspective * Susan VandeWoude, Mechanisms of feline lentivirus interference and control * Brian J. Willett, FIV receptor correlates with disease progression * Christiaan Winterbach, Studies of lions in the Botswana ecosystem * Janet K. Yamamoto, Advances in FIV vaccine technology * Naoya Yuhki, MHC genomics of the cat

Your participation would be most welcome. Please email Jill Pecon-Slattery, slattery@ncifcrf.gov with any questions.

Best wishes

Stephen J. O'Brien, Chief Laboratory of Genomic Diversity, National Cancer Institute-Frederick, Frederick MD USA On behalf of the International Organizing Committee (see <http://ifrrs8.ncifcrf.gov> for complete list)

Local Organizing Committee Jill Pecon-Slattery, Ph.D, slattery@ncifcrf.gov Naoya Yuhki Ph.D Alfred Roca, Ph.D. Meredith Brown, DVM Email: IFRRS8@ncifcrf.gov Website: <http://ifrrs8.ncifcrf.gov> Al Roca <roca@ncifcrf.gov>

Wuhan CypriniformFishes Oct12-15

Wuhan.CypriniformFishes.Oct12-15

Biology of Cypriniformes 12-15 October, 2006 Wuhan, P.R. China

The Chinese Academy of Sciences Institute of Hydrobiology in Wuhan, P.R. China and the US NSF-supported Cypriniformes Tree of Life Project have combined resources for the first International Symposium on the Biology of Cypriniformes. The conference will be held between 12-15 October 2006, in Wuhan, China.

Topics include: Diversity, distribution, and conservation of Cypriniformes; Systematics and species discovery; Evolution and development of Danio and relatives; Genomics in Cypriniformes, Ostariophysi or Actinopterygii; Advances in aquaculture of Cypriniformes; and Cypriniformes as invasive species.

Detailed information on this symposium, registration, accommodations, travel, workshops and working groups, and excursions is available at the website

<http://bio.slu.edu/mayden/conferences/>

CToLSyposium/ The deadline for registration and abstract submission is 15 September 2006.

Visas are required for travel into China and must be arranged in advance. More information on Visas is available at the website.

If you have questions that cannot be addressed with the information at the website please contact Rick Mayden at cypriniformes@gmail.com.

David Neely <neelyda@slu.edu>

GradStudentPositions

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ArizonaStateU MalarialParasitesEvol

PhD position to study Evolutionary Biology of Malarial Parasites

Arizona State University

Malaria is a parasitic disease endemic in most of the tropical and subtropical ecosystems worldwide and exhibits great geographic diversity. My ongoing research focuses on investigating the mechanisms involved in the maintenance of genetic polymorphisms in natural populations of malarial parasites in primates (humans and

non-human), assessing the evolution of specific proteins involved in the invasion of the host red blood cell, and the phylogeography of macaque malarial parasites.

Applicants should comply with ASU requirements. The student is expected to learn both laboratory and computational skills. Knowledge in evolutionary biology and molecular biology at the level of undergraduate courses is expected. A course in general microbiology is desirable.

The school of Life Sciences in Arizona State University offers several graduate programs; please check the Integrative Graduate Education in the Life Sciences (iGELS) website for details (<http://sols.asu.edu/grad/-igels/index.php>).

The graduate students at ASU have the opportunity of

interacting with faculties from several disciplines. In addition to our diverse community at SOLS (<http://sols.asu.edu/index.php>), I maintain active collaborations with the Centers for Disease Control and Prevention (Atlanta, Georgia), the National Primate Research Center at University of Washington, UC Santa Cruz, and colleagues working in endemic countries. Assistantships are available conditional to admission in ASU.

Prospective Students please contact

Ananias A. Escalante School of Life Sciences Arizona State University PO Box 874501, Tempe AZ 85287-4501 E-mail: Ananias.Escalante@asu.edu Phone: (480) 965-3739 Fax: (480) 965-6899 <http://sols.asu.edu/faculty/aescalante.php> Ananias Escalante <Ananias.Escalante@asu.edu>

CSIC Spain DNABarCoding

A graduate student position is available beginning 2007 in the laboratory of Dr. Joan Pons. The project will involve the isolation of genomic DNA and the amplification of the *cox1* gene of 6000 specimens to delimit species boundaries using DNA sequences alone (DNA barcoding, DNA taxonomy). Project will focus in three arthropod groups: 1) water beetles (lead by Dr. Ribera from Museo Ciencias Naturales de Madrid, Spain, and Dr. Balke from Museum of Zoology of Munich, Germany) 2) spiders (lead by Dr. Arnedo from University of Barcelona, Spain, Dr. Hormiga from The George Washington University, USA, and Dr. Ramirez from Museo Argentino de Ciencias Naturales CONICET (Argentina). 3) membracid homopters lead by Dr. Yves from Smithsonian Institute (Panama).

The main goals of the project is to obtain the DNA barcode for 6000 specimen and estimate the alpha and beta diversity of the 5 localities studied in Panama using DNA sequences alone.

The student will focus on the molecular work but he/she will work on the morphological description of the water beetles since one of the main goals of the project is compare the limits of those species determined by classical morphology with those delimit by DNA sequences alone.

Techniques used will include DNA isolation, PCR, DNA sequencing, and primer design. Background in the relevant molecular techniques is highly desirable,

as well as interest in species/populations boundaries, biodiversity estimation, conservation genetics.

A master degree in zoology, taxonomy, conservation genetics, phylogenetics or related subject is highly desirable. A good proficiency in Spanish is a bonus but English will be the working language.

We are particularly interested in students trained on bio-informatics but willing to apply his/her skills on taxonomy, phylogenetics, and conservation genetics. Those students will be trained on molecular techniques and field work.

The fellowship position is for 3 years and about 900 Euros a month. The fellowship also includes health insurance.

The student will be funded by a fellowship included in the project Aplicación de la técnica del código de barras del ADN para la estimación rápida de grupos megadiversos en puntos calientes de la biodiversidad: Los artrópodos del Istmo de Panamá funded by the prestigious Banco Bilbao Vizcaya Argentaria Foundation (BBVA). Application should be send to Dr Joan Pons (joan.pons@upf.edu). The closing date for applications is 30 September, 2006.

Please include:

1.- CV 2.- Brief statement of scientific interests and previous work 3.- Contact address 4.- Name, address, email and phone details of three referees from whom references can be obtained

Student will be based in the research center IMEDEA (www.imedea.uib.es/) a joint institute of the Centro Superior de Investigaciones Científicas and the University Illes Balears. The center is located in Esporles (Mallorca, Spain), very close to the main city Palma. The research center is composed of more than 100 scientists from all over the world. In addition, student will spend short periods in other research centers (Museo Ciencias Naturales de Madrid, Spain, Museum of Zoology of Munich, Germany, and the Natural History Museum, London).

Best,

Joan

Recent publications

BALKE, M.; PONS, J.; RIBERA, I.; SAGATA, K.; AND VOGLER, A.P. (2006). Infrequent and unidirectional colonization of megadiverse Papuadytes diving beetles in New Caledonia and New Guinea. *Molecular Phylogenetics and Evolution* In press. PONS, J. (2006). DNA-based analysis for identifying preys from total DNA extracted from whole predators specimens us-

ing non-destructive methods, and arthropod universal primers. *Molecular Ecology Notes* 6:623-626.. PONS, J.; BARRACLOUGH T. G.; GOMEZ-ZURITA, J.; CARDOSO, A.; DURAN, D.; HAZELL, S.; KAMOUN, S.; SUMLIN W. D.; VOGLER, A.P. (2006) Evolutionary species delineation for the DNA taxonomy of undescribed insects. *Systematic Biology* 55(4):595-609.. PONS, J.; VOGLER, A. P. (2006) Size, frequency, and phylogenetic signal of multiple-residue indels in sequence alignment of introns. *Cladistics* 22:144-156.. MONAGHAN, .T.; BALKE, M., PONS J.; VOGLER A.P. (2006) Beyond barcodes: complex DNA taxonomy of a South Pacific Island radiation. *Proceedings of the Royal Society Series B* 273: 887-893. PONS, J.; VOGLER, A. P. (2005) Complex history of origination and fast evolution of a mitochondrial rRNA pseudogene in a recent radiation of tiger beetles. *Molecular Biology and Evolution* 22(4): 991-1000. PONS, J.; GILLESPIE, R.G. (2004) Evolution of satellite DNAs in a radiation of endemic Hawaiian spiders: Does concerted evolution of highly repetitive sequences reflect evolutionary history? *Journal of Molecular Evolution* 59: 632-641. GÓMEZ-ZURITA, J.; PONS, J., PETITPIERRE, E. (2004). The evolutionary origin of a novel karyotype in *Timarcha* (Coleoptera, Chrysomelidae) and general patterns of

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

CardiffU MetalAdaptation

Please circulate to any potential candidates:

A PhD studentship is available in the field of Molecular Ecology starting from November 2006, to study the adaptation of a biological 'sentinel' species within heavy metal contaminated environments.

Supervisor: Dr Georgina Harper Co-supervised by Mike Bruford & John Morgan at Cardiff University

The project will investigate evolution and adaptation within populations of the 'sentinel' earthworm species *Lumbricus rubellus* that are subject to high levels of Ni contamination in their environment. We aim to determine whether such *L. rubellus* populations are sustained by local recruitment, by which we may infer that

populations are sufficiently locally adapted to allow successful reproduction or whether such populations represent 'demographic sinks', sustained by dispersal from 'source' populations in less contaminated land.

Specifically, the project will utilise molecular genetic markers (Microsatellites and AFLPs), and will investigate the relationship of this genotype data to phenotypic data, obtained via metabolomics (analytical profiling of metabolites in biological samples). The combination of these techniques will facilitate a new level of understanding of adaptation to environmental change, as if dispersal is shown to occur, we can investigate to what extent it results in gene-flow, since this may have major implications for the maintenance of genetic diversity in sentinel populations, potentially facilitating future adaptive evolution.

The studentship will be based at the University of Glamorgan, and is part of a collaborative project between the University of Glamorgan, Imperial College and Cardiff University. The studentship is fully funded by the Leverhulme Trust (UK only funding). Applicants should have, or expect to obtain at least a 2:1 honours degree in a biological science, preferably with some experience and an interest in population genetics or molecular ecology.

For informal enquiries, full information and application forms contact Dr Georgina Harper, email glharper@glam.ac.uk, tel; 01443 482868. Completed application forms and a CV should be sent to Dr Georgina Harper, School of Applied Sciences, University of Glamorgan, Pontypridd, Mid Glamorgan, CF37 1DL, UK, no later than 31st August 2006.

glharper@glam.ac.uk

Cologne EvolSeedDormancy

PhD position: Evolution of seed dormancy in Cologne, Germany

Title: The genetic basis of adaptive responses to local demands on seed dormancy in *Arabidopsis thaliana*

A PhD position is open at the Max Planck Institute for Plant Breeding Research in Cologne, Germany; starting as soon as possible to join the group of population genetics and cis-regulatory evolution, headed by Juliette de Meaux in the department of Genetics and Plant Breeding.

Applicants with a master degree (or equivalent qualification) in evolutionary biology and with interest in functional and molecular studies of diversity are invited to apply. A background in plant biology is not a prerequisite.

Summary This project proposes to investigate the footprint of local selection on genes influencing seed dormancy in *Arabidopsis thaliana*. In our group, we are especially interested in the dynamics of cis-regulatory vs. coding variation. Cis-regulatory regions are thought to evolve faster than coding regions and should thus play a predominant role in a species ability to adapt to local conditions. Special attention will be paid to the relative role played by these different DNA regions in the evolution of seed dormancy.

Scientific environment

Our group is interested in evaluating the role played by cis-regulatory regions in adaptive evolution. For this, we are undertaking an analysis of nucleotide and functional evolutionary dynamics of promoter regions within and among closely related species of the *Arabidopsis* genus and combine bioinformatics, experimental and population genetics approaches. Our ultimate goal is to relate this diversity to its ecological role in natural environments. The study of seed dormancy offers an optimal ecological context in which to examine the role of both cis-regulatory and coding variation on phenotypic evolution. For this project, we benefit from a close collaboration with Wim Soppe's group in the department, who is dedicated to the dissection of the molecular pathway controlling seed dormancy. The Max Planck Institute offers an outstanding environment for carrying out ambitious and innovative research. The Department of Genetics and Plant Breeding brings together plant molecular biologists, quantitative geneticists and evolutionary biologists to investigate the causes and consequences of plant natural variation. The Institute benefits from a superb interdisciplinary scientific community, with world class molecular biology being performed and active contacts with outstanding evolutionary geneticists located in the nearby University of Cologne. This position is part of SFB680, a research network on the molecular basis of evolutionary innovations, which is funded since January 2006 by DFG, the German research funding agency.

Living in Cologne Cologne, the metropolis on the Rhine, has just over one million inhabitants and is the fourth-largest city in Germany. It offers plenty of cultural and recreational activities. The city further benefits from its central location in the European travel network. Trains go directly from downtown Cologne to Frankfurt International Airport. Low cost air compa-

nies operate at the local airport (Köln-Bonn) and can take you anywhere in Europe in a couple of hours.

Applicants are encouraged to consult the Institute/Departmental websites at <http://www.mpiz-koeln.mpg.de>. Review of applications will begin immediately and continue until the position is filled. Please provide a cover letter, curriculum vitae and contact information for two referees and submit to: Juliette de Meaux <demeaux@mpiz-koeln.mpg.de>. The position is open to citizens of any nationality. Don't hesitate to contact J. de Meaux if you have specific questions about this announcement.

Juliette de Meaux <demeaux@mpiz-koeln.mpg.de>

Hannover EvolMouseLemurs

A PhD Position is available in the field of Behavioural Ecology at the Institute of Zoology at the Stiftung Tierärztliche Hochschule Hannover, Germany

Topic: Comparative feeding ecology of mouse lemurs (*Microcebus* spp.) in northwest Madagascar

The feeding ecology of species influences their ecological plasticity, may determine population densities and forms one important ecological basis for species coexistence. This project aims to test various ecological hypotheses and predictions by focussing on two mouse lemur species in zones of sympatry and allopatry. The main part of the project consists of field work, but subsequent lab work will also be included. The project is funded by the Deutsche Forschungsgemeinschaft.

We seek a highly motivated and scientifically creative graduate student willing to conduct two long field trips (up to 10 months duration) to the Ankarafantsika National Park under demanding tropical working conditions. The student should have previous experience in animal behaviour, a theoretical and practical background in evolutionary ecology, as well as practical experience in working with and handling free-living animals (ideally primates or small mammals).

Methods employed in the field will include behavioural observations and experiments, radiotelemetry, capture-recapture techniques, vegetation analyses (e.g., phenology, food composition and distribution), and faecal analyses.

An applicant should have a Diploma or Masters degree in Biology or a related topic and should have high tech-

nical and organisational skills. We expect knowledge of French, team work abilities and social skills even under remote conditions, as the successful applicant will be part of a small field team that will include foreign as well as Malagasy students. Previous experience with tropical countries will be highly appreciated.

The project will officially start in 2007, but previous preparations may be necessary. Our institution aims to increase the proportion of female scientists and especially invites qualified women to apply. Review of applications begins immediately and will continue until the position is filled.

Please send applications (including a cv, a statement of research interests and the name, phone no. and e-mail addresses of two referees) to:

PD Dr. Ute Radespiel Institute of Zoology Stiftung Tierärztliche Hochschule Hannover Bünteweg 17 30559 Hannover Germany e-mail: ute.radespiel@tiho-hannover.de

PD Dr. Ute Radespiel Institut für Zoologie TiHo Hannover Buenteweg 17 D-30559 Hannover Germany

Tel. ++49-511-9538430 Fax. ++49-511-9538586 e-mail: ute.radespiel@tiho-hannover.de

Ute.Radespiel@tiho-hannover.de

LeidenU Fast evol

PhD position available (38 hours a week)

in the section Plant Ecology of the Institute of Biology (IBL) of Leiden University, for the project:

Biological invasions: The result of a fast evolution in new environments?

Senecio jacobaea is introduced introduction into Australia, New Zealand and the west coast of North America where it is a noxious weed. Previous research strongly suggests that a fast adaptive evolution towards a more weedy habit in *S. jacobaea* plants took place upon introduction. However, for a proper analysis of adaptive changes upon introductions the source populations of the native area need to be compared with the introduced environments. The candidate will therefore first focus on finding the source population(s) in the native area and reconstructing the path of introduction of *S. jacobaea* in Australia, New Zealand and North America with the aid of molecular techniques such as AFLP, microsatellites and TILLING.

To find evidence for a fast evolution upon introductions the source populations will be compared with the invasive populations in common garden experiments with regard to anti-herbivore-, growth and reproduction characteristics. Bioassays will be performed with a number of specialist and generalist herbivores.

Genetic variation in the traits of interest will be compared to genetic variation in neutral molecular markers to correct for bottlenecks.

Requirements: The candidate must have a degree (Drs./MSc) in biology or a related study and have a strong interest as well as expertise in evolutionary and molecular biology.

The appointment is for a period of 4 years and is expected to lead to the completion of a dissertation. The gross monthly salary is 1.877 in the first year and increases progressively each year to 2.407 in the fourth year. Salary and fringe benefits conform to the Collective Employment Agreement for Dutch Universities. We hope to fill the vacancy as soon as possible.

For further information you can contact Dr. Klaas Vrieling (+31-71-5275136; e-mail: K.Vrieling@Biology.leidenuniv.nl).

Written applications (mentioning SEC5-PhD and including a CV with marks obtained and the names and phone numbers of two references) should be submitted before August 30, 2006 to: Leiden University, Faculty of Mathematics and Natural Sciences, attn. Mr. S. Brandsma, Human Resource department, P.O. Box 9504, 2300 RA Leiden, The Netherlands.

s.brandsm@science.leidenuniv.nl

k.vrieling@biology.leidenuniv.nl

MaxPlanckLeipzig MolAnthro

PhD positions in Molecular Anthropology

Two PhD positions are available in the interdisciplinary junior research group of Dr. Brigitte Pakendorf on ?Comparative Population Linguistics? at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany. The successful applicants will work on molecular anthropological approaches to prehistoric population contact in Siberia and Africa, respectively. A master?s degree or equivalent in a relevant field is required. Some experience in molecular anthropological methods (including PCR, sequencing, RFLP and

STR typing, and data analysis) is desirable but not necessary. An interest in interdisciplinary research is important, and a knowledge of Russian would be of advantage. The junior research group will have access to the state-of-the-art facilities for molecular biological research at the Department of Genetics within the institute, and the successful candidates will participate in the International Max Planck Research School 'Leipzig School of Human Origins'.

The junior research group on 'Comparative Population Linguistics' will be an interdisciplinary group consisting of molecular anthropologists, linguists, and social anthropologists devoted to the study of pre-historic population and language contact. Additional information can be found at our webpage: <http://www.eva.mpg.de/cpl/> Interested individuals should send a letter of application, curriculum vitae, and the names and FAX numbers or e-mail addresses of two referees to Brigitte Pakendorf (Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, D-04103 Leipzig, Germany; e-mail: pakendorf@eva.mpg.de). Due to an extended absence in the field, applications will be reviewed from the end of September; shortlisted candidates will be invited to interview in October. The positions will be available from January 1st, 2007.

The Max Planck Society is an equal opportunity employer.

– PLEASE NOTE: I will be out of contact (e-mail and phone/fax) from August 4th until the end of September.

Dr. Brigitte Pakendorf Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6 phone +49 (0) 341 35 50 308 D-04103 Leipzig fax +49 (0) 341 35 50 333 Germany e-mail pakendorf@eva.mpg.de <http://email.eva.mpg.de/~pakendorf/>

Brigitte Pakendorf <pakendorf@eva.mpg.de>

Netherlands AnimalEvol

Please circulate to potential candidates.

The Netherlands Institute for Ecology (NIOO- KNAW) focuses on fundamental, strategic research into individual organisms, populations, ecological communities and ecosystems. More than 240 staff are employed at three centres as well as the head office. The Centre for Limnology (CL) in Nieuwersluis focuses its research on

freshwater ecology. The Centre for Marine and Estuarine Ecology (CEME) in Yerseke deals with ecosystems in brackish and salt water and emphasis at the Centre for Terrestrial Ecology (CTE) in Heteren is put on land-based ecology. The Netherlands Institute of Ecology is a research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW).

Within the department of Plant-Animal Interactions there is a vacancy for a

PHD student with a specialization in Animal Ecology
Vacancy number CL-PDI-06304

Who will be appointed on the project Arctic breeding waterfowl as vectors for avian influenza viruses. This project, supported by the Dutch science foundation (NWO) in the framework of the International Polar Year, will be conducted in close co-operation with the department of Virology of Erasmus University - Rotterdam, Veterinary Medicine - Utrecht University, and Arctic Centre - Groningen University.

Project description: Influenza virus (IV) outbreaks pose a major threat to human and animal health and the economy. Various data indicate that Arctic breeding migratory waterbirds, notably Anseriformes and Charadriiformes species, are a reservoir and vector for IV. With its dense human population, extensive pig and chicken farming (with increasing outdoor ranging), its many shallow water bodies that attract migratory waterfowl in unparalleled numbers, The Netherlands form a European hot spot for influenza outbreaks in poultry and potential transmission to man. For risk reduction, early recognition and management of outbreaks, the proposed multidisciplinary research initiative will provide critical knowledge on: (1) what species of Arctic breeding waterbirds are carriers of avian IV and how this correlates with specific ecological features of the species, (2) the spatial and temporal variation in IV prevalence among these species, (3) which individuals are most susceptible for IV infection and how it impacts their fitness and (4) the role of Arctic moulting ponds as reservoirs for avian IV. We envisage a multidisciplinary research project covering the fields of bird ecology, virology and epidemiology. Using a flyway approach, IV prevalence and bird fitness and behaviour will be monitored at a high spatial and temporal resolution in various populations of waterfowl, all in order to elucidate the interactions between Arctic breeding birds and IV. The full project description can be obtained from: <http://loonen.fmns.rug.nl/ipy/ipynlklaassen.pdf>. The description of the sister project, on which a post-doc will be appointed, can be obtained from <http://loonen.fmns.rug.nl/ipy/ipynlheesterbeek.pdf> Function description: The Ph.D. student will have to unravel the

ecology of influenza A viruses and their Arctic breeding waterbird hosts. The work will involve a large amount of field work, involving behavioural observations and faecal sampling of birds, both in The Netherlands and the Arctic. Samples may also be collected through the large extant network of scientists working on Arctic breeding waterbirds. The work will also include the molecular analyses of the samples collected. The research is conducted in strong interaction with the theoretical and empirical work done by the other project partners. The candidate is expected to publish in international peer-reviewed journals and complete a thesis within four years.

Requirement: We are looking for an enthusiastic, creative and productive scientist with an MSc in animal ecology and a strong interest in molecular techniques. The candidate has to be prepared to travel to remote Arctic sites and has to have good communicative skills.

Appointment: This position involves a temporary appointment for a period of 1 year with possibility for an extension for 3 years (38 h per week). The total position involves a temporary appointment for 4 years. The appointment will preferably start on the 1st November 2006.

Salary: According to the Collective Agreement for Dutch Universities (CAO-Nederlandse Universiteiten). The gross salary increases from 1.933,- per month in the first year to 2.472,- per month in the fourth year (full-time position), excluding 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Location: You will be working in the Department of Plant-Animal Interactions, Centre for Limnology (NIOOCL) in Nieuwersluis, The Netherlands.

Information: Further information can be obtained from Prof. Dr. Marcel

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PotsdamU EvolBiol

Dear Evolutionary Biologist,
please note that - within the newly established Gradu-

ate School of Earth Sciences at Potsdam University (see below) - we are also looking for one PhD student in Evolutionary Biology. I encourage applications of qualified Diploma/MSc holders. Do not hesitate to contact me directly, if you need further information.

Prof. Dr. Ralph Tiedemann Unit of Evolutionary Biology/Systematic Zoology Institute of Biochemistry and Biology University of Potsdam Karl-Liebknecht-Str. 24-25, Haus 26 D-14476 Potsdam Germany Tel: +49-331-977-5249, -5253 (secretary) Fax: +49-331-977-5070 Email tiedeman@rz.uni-potsdam.de <http://www.bio.uni-potsdam.de/spezzoo/index.htm> The Graduate School of Earth Sciences at Potsdam University, Germany (DFG-GRK 1364, entitled "Shaping the Earth's surface in a variable environment: Interactions between tectonics, climate and biosphere in the African-Asian monsoonal region")

invites applications for

Nine PhD fellowships, available as of October 1, 2006.

The duration of available fellowships is for three years. Stipends of 1200 EUR/month are offered to PhD fellows contingent on successful completion of each academic year. The Graduate School is an integral part of the Department of Geosciences at Potsdam University, co-hosted by the Departments of Biology, Physics, and Geocology as well as the Alfred-Wegener-Institute for Polar and Marine Research (Potsdam) and the Geo-ForschungsZentrum Potsdam. The principal objective of research projects in the Graduate School is the investigation of the interaction between tectonics and climate in shaping the surface of Earth at different length and timescales. In addition, studying the impact of these processes on the biosphere is an integral part of this effort. The regional basis for this research program involves the India-Asia collision zone and the East African Rift System, both characterized by ongoing tectonism and the creation of pronounced relief contrasts during the Cenozoic. Both settings are influenced by the African-Asian Monsoon, which is highly variable on yearly, decadal, millennial, but also on geologic timescales and has left fundamental imprints in landscape evolution of these regions.

We invite applications within the thematic fields of the Graduate School described in detail on the webpage <http://www.geo.uni-potsdam.de/graduertenkolleg/index.html>. Candidates holding a diploma, MSc or BSc honours degree are invited to submit their applications in PDF format (including cover letter, CV, copies of relevant certificates, contact information of referees, and a three-page research proposal) via email to graduateschool@geo.uni-potsdam.de to the acting

representative of the Graduate School:

Prof. Manfred Strecker, PhD Institut für Geowissenschaften Universität Potsdam Karl-Liebknecht-Str. 24 D-14476 Golm. Germany

Deadline for submissions is September 1, 2006. Potsdam University is an equal opportunity employer.

For additional information please contact PD Dr. Martin Trauth (E-Mail: trauth@geo.uni-potsdam.de) or Dr. Andreas Bergner (E-Mail: bergner@geo.uni-potsdam.de).

tiedeman@rz.uni-potsdam.de

RoyalBotanicGardenMadrid Biodiversity

POSITION: PhD contract upon Marie Curie Early-Stage PhD Researcher (European Union)

PROJECT: Understanding and Conserving the Earth's Biodiversity hotspots (HOTSPOTS)

JOB PLACE: Department of Biodiversity and Conservation, Royal Botanic Garden of Madrid, Spain (see <http://www.rjb.csic.es/>).

HOURS OF WORK: Full Time

JOB STATUS: 2,5 years Fixed Term Appointment.

PhD DETAILS: Working within a new European consortium for training in biodiversity research and conservation, you will be enrolled in a multi-disciplinary challenging PhD programme (HOTSPOTS). In particular, the PhD project will be on Contrasting evolutionary patterns between Mediterranean floristic regions (Mediterranean Basin-South Africa). *Dianthus* and *Gladiolus* will be the two chosen plant genera to be focused on.

STUDENT SKILLS AND INTEREST: We search for a student highly motivated in performing a PhD project on evolution, phylogenetics, plant-pollinator interactions using molecular techniques. It will be appreciated experience in the following techniques and methods: plant and animal identification, DNA extraction, PCR, sequencing, phylogenetic reconstructions, statistics, bioinformatics.

ESSENTIALS: You will have BSc/BA (or equivalent), with above-average grades, and excellent background knowledge in biology and/or bio-computing/statistics.

You will also need to meet the eligibility criteria of the Marie Curie Actions: (1) you will be an early-stage researcher (less than 4 years of postgraduate research experience) and (2) you will not be a national of the country in which you will be appointed (trans-national mobility).

HOW TO APPLY: Once you have checked your eligibility criteria (see <http://www.cordis.lu/mariecurie-actions> for details), send your curriculum vitae and two recommendation letters to vargas@rjb.csic.es. Your CV should include lists of courses, seminars, grades, and publications.

PROJECT PARTNERS: The European HOTSPOTS consortium will work towards increasing the knowledge and understanding of biodiversity hotspots, including the Mediterranean Basin and some European overseas territories. Applying field, molecular and bioinformatics approaches to flagship plants and animals, HOTSPOTS will train a new generation of biologists in state-of-the-art methods of evolution, ecology, and conservation. The PhD programme will comprise nine individual research projects, university training modules (France, Finland, Germany) and summer schools (UK & Africa). The European Commission provides funds to the host organisations to cover salary related costs for the Researchers (salaries depend on the country that will host the fellow. As an indication, in the UK, the fellow will receive a salary in the range of 20-23K p.a. incl. benefits).

Dr. Pablo Vargas Real Jardín Botánico de Madrid (CSIC) Plaza de Murillo 2, 28014 Madrid (Spain) Phone number: + 34 914203017 (225) Fax number: + 34 914200157

Jardin Botanico de Madrid: un paseo guiado Botanic Garden of Madrid: a guided walk <http://www.arba-s.org/grupos/tc/Jardin%20botanico%20con%20to-1.pdf> Organism, Diversity and Evolution: <http://www.urbanfischer.de/journals/> Red Española de Diversidad Biologica, Evolución y Sistemática <http://redesmoleculares.csic.es/redesmoleculares/index.jsp> Jardín Botánico de Madrid: <http://www.rjb.csic.es> Consejo Superior de Investigaciones Científicas (CSIC): <http://www.csic.es> Pablo Vargas <vargas@rjb.csic.es>

SouthernIllinoisU CrabEvoDevo

Graduate Position – Horseshoe Crab Developmental Genetics:

A graduate student position is available beginning the spring semester in the laboratory of Dr Richard Thomas in the Department of Zoology at Southern Illinois University Carbondale. The project will involve the isolation and characterization of genes responsible for early events in body plan formation in the horseshoe crab, *Limulus polyphemus*. Techniques used will include cDNA library construction, hybridization, RT-PCR, DNA sequencing, and microscopy. Background in the relevant molecular techniques is highly desirable, as is an interest in the evolutionary developmental biology of arthropods. The student will be funded by a combination of research assistantships and teaching assistantships. Interested students should contact Dr Richard Thomas at rthomas@zoology.siu.edu.

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

SouthernIllinoisU SturgeonGenetics

Graduate Position - Sturgeon Genetics: A Ph.D. research assistantship including stipend and tuition waiver is available to begin January 2007 in the laboratory of Dr. Ed Heist at Southern Illinois University Carbondale (SIUC) in collaboration with Dr. David Galat at the University of Missouri. The project will involve development of Single Nucleotide Polymorphism (SNP) markers in river sturgeons of the genus *Scaphirhynchus* in relation to conservation of the endangered pallid sturgeon (*S. albus*). This project will form part of a doctoral dissertation in the Department of Zoology (<http://www.science.siu.edu/zoology/>) in conjunction with the Fisheries and Illinois Aquaculture Center (<http://fisheries.siu.edu/>). The ideal candidate will have prior experience with molecular genetics techniques (e.g. DNA sequencing and/or cDNA library construction) and will have an interest in the use of molecular genetics in conservation and fisheries management. Interested students should contact Dr. Ed Heist at edheist@siu.edu.

Edward J. Heist, Ph.D. Southern Illinois University at Carbondale Fisheries and Illinois Aquaculture Center Life Sciences II, 1125 Lincoln Drive Carbondale, IL 62901-6511 Voice: (618) 453-4131 Fax: (618) 453-6095 email: edheist@siu.edu web: <http://www.science.siu.edu/zoology/heist/index.html> edheist@siu.edu

UAntwerp EvolBiol

One PhD student position is available at the Evolutionary Biology group at the University of Antwerp, Belgium. The research project focusses on the role of food stress and different developmental pathways on the development of the skull (developmental instability and canalisation) of the multimamate rat (*Mastomys natalensis*). The main goal is to gain better insights in the role of development and selection in the ecology of this pest species and to study the evolutionary potential of this complex trait.

To qualify for this position you need a master university degree with a minimum of 120 ECTS in biology (or equivalent). Advanced courses in evolutionary biology and biometry are desirable. The position is for 1 year and can be extended to a maximum of 4 years after positive evaluation. Please send your application (CV, motivation letter, and the names and email addresses of two senior scientist whom we may contact for further information) by email to Prof. Dr. Stefan Van Dongen at stefan.vandongen@ua.ac.be.

Closing date of the application is the 15th of September 2006. The successful candidate is expected to start as soon as possible from the 1st of October onwards. For further information, please do not hesitate to contact me.

Prof. Dr. Stefan Van Dongen Department of Biology - Group of Evolutionary Biology University of Antwerp Groenenborgerlaan 171 B-2020 Antwerp Belgium

personal page: <http://www.ua.ac.be/stefan.vandongen>
email: stefan.vandongen@ua.ac.be Tel: + 32 (0)3 265 33 36 Fax: + 32 (0)3 265 34 74

UGlasgow ArabidopsisDiversity

PDRA and PhD Positions, Division of Environmental and Evolutionary Biology, University of Glasgow (up to 3 years, starting January 2007)

Mating systems and genetic diversity in *Arabidopsis lyrata*

A Postdoctoral Research Assistantship is available on a NERC-funded (British Natural Environment Research Council) project concerned with evaluating how the mating “decisions” that plants make affect their potential to respond to environmental change, as a result of changes in genetic diversity resulting from different levels of inbreeding. This project will address this question by examining naturally occurring populations of a species that is normally outcrossing (i.e., is only able to breed with unrelated individuals), but for which populations have been identified that have experienced a change in the genetic machinery required to maintain this mating strategy. The study will examine variation in: 1) genes that are directly involved in controlling rates of outcrossing; 2) genes that are in physical proximity to these gene regions; and 3) unrelated reference loci that can be used to test population genetics models about changes in demographic attributes of populations in relation to breeding systems.

The objectives of a tied PhD studentship will be to test hypotheses about when the shift in mating system occurred in relation to post-glacial colonization and to examine mechanisms for loss of self-incompatibility through controlled pollination and transformation experiments.

Since the plants used in this study are restricted to habitats that have been fragmented as a result of human population growth, the study could have implications for predicting how changes in breeding strategies will influence the ability of populations to adapt to changes in population size or restriction of migration between populations as a result of human activities.

Eligibility: The PDRA is open to all qualified applicants but the PhD position is restricted to UK residents (EU nationals are eligible only if they have worked or studied in the UK for a period of 3 years or more).

To Apply or Request Further Information: Please send a CV and a brief statement of your research interests to Dr. Barbara Mable (b.mable@bio.gla.ac.uk). Further information about the research environment can be found at: <http://www.gla.ac.uk:443/ibls/staff/-staff.php?who=PQdGnd>.

Further project details and formal application procedures will be forwarded following receipt of informal enquiries, but the closing date for full applications will be October 1, 2006.

Dr. Barbara Mable NERC Advanced Research Fellow/Lecturer Division of Environmental and Evolutionary Biology Rm 404 Graham Kerr Building University of Glasgow Glasgow, Scotland G12 8QQ email: b.mable@bio.gla.ac.uk Phone: +44 (0)141 330 3532

Mobile: +44(0)7910 833 819 Fax: +44 (0)141 330 5971
b.mable@bio.gla.ac.uk

UGroningen ConsGenet

Because I realized that some potential candidates may have missed this announcement during their holidays, the deadline for application of the PhD in conservation genetics - University Groningen (see below) is extended until August 26, 2006

PhD position in conservation genetics

In the Population & conservation Genetics group (Evolutionary Genetics, University of Groningen, NL) a position for a PhD student is available. The subject of the project will be in the field of conservation genetics. The main theme of the project is targeted at investigating the consequences of genetic erosion for the persistence of small (endangered) populations. Issues that will/can be addressed are, among others, environmental dependence of inbreeding depression, stress resistance, the relevance and dynamics of genetic purging for persistence, gene flow and outbreeding depression, genetic rescue, and metapopulation dynamics. These problems will be approached (mainly) experimentally, using *Drosophila* as a model organism

PhD position for four years:

We are looking for a student with a masters or equivalent degree in biology with preferably a strong background in population/evolutionary genetics and a very creative mind. Good proficiency of the English language required. The candidate should have a strong interest in population/conservation genetics research and affinity with experimental work on *Drosophila*. The candidate is supposed to attend a few graduate courses (10% of time). We offer a four year position with a stipend of around Euro 17000 per year (no tuition has to be paid). The position is open to all EU members and affiliates (except Dutchmen).

Starting date and applications:

The position is open immediately and has to be filled in September. To apply, please email a curriculum vitae, including a detailed description of the subjects addressed during the masters education, a statement of research interests, and the names and email addresses of two persons that can be approached for references, before August 21 to r.bijlsma@rug.nl

The group:

The Evolutionary Genetics group is part of the Centre for Ecological and Evolutionary Studies (CEES) in the Faculty of Mathematics and Natural Sciences of the University of Groningen. Areas of research include evolution of reproductive systems, conservation genetics and life-history evolution; main model organisms are *Drosophila* and parasitic wasps. The group provides a lively, internationally oriented, scientific environment with excellent facilities. The group takes part in the National Research School "Functional Ecology" which offers advanced courses in ecology and evolution.

Information:

For more information:

Prof. Dr. Kuke (R.) Bijlsma, tel: +31 50 363 2117 (or 2092); r.bijlsma@rug.nl <http://www.rug.nl/biologie/evogen> <http://www.rug.nl/biologie/cees>

NEW E-MAIL ADDRESS: r.bijlsma@rug.nl Kuke (R.) Bijlsma Professor Population & Conservation Genetics Evolutionary Genetics University of Groningen Kerlaan 30 NL-9751 NN Haren The Netherlands

Phone +31 50 363 2117 (direct) +31 50 363 2092 (secr.) Fax +31 50 363 2348 home +31 50 5348476 Email r.bijlsma@rug.nl <http://www.rug.nl/biologie/evogen> ESF programme ConGen now calls for Workshop Proposals and Travel Grant Applications. Deadlines May 15, 2006, see <http://www.esf.org/congen> r.bijlsma@rug.nl r.bijlsma@rug.nl

UJvaskyla Genetic Variability

One PhD Position on the maintenance of genetic variability in animals with asexual reproduction is available at the University of Jyväskylä, Finland under the supervision of Johanna Mappes, Jukka Jokela and Alessandro Grapputo.

Starting: 2006. Funded by Academy of Finland for 4 years

The main theme of the project is targeted at investigating how parthenogenetic animals can maintain high genetic variability and compete with sexual relatives. All theories on the evolution and maintenance of sex have been based on the comparison between sexual and clonal parthenogenetic reproduction. * *However, asexual reproduction is not always clonal, but can involve meiosis and recombination as in automictic thelytoky,

a form of parthenogenesis occurring in many insects. Automictic parthenogenetic species should have the advantage of avoiding the cost of sex and, at the same time, enjoy the advantages of genetic diversity through recombination and decrease the mutational load, making sex even more paradoxical. Recently, it has also been theoretically shown that the viability of populations with automictic parthenogenesis and central fusion increases with increasing rates of recombination. We are investigating the population structure of sexual and parthenogenetic lineages, the genetic erosion within single parthenogenetic lineages and if parthenogenetic lineages have higher rate of recombination than sexual lineages. The position will involve both field and laboratory work with bag worm moths (Lepidoptera: Psychidae) which provide one of the rare known systems where sexual and asexual species co-exist. The psychid moth could offer important insights for the evolution of sex theory since their particular mode of asexual reproduction (the automictic thelytoky).

Applicants should have a master or equivalent degree in a relevant biological discipline, and a strong interest in evolutionary biology. Previous experience with molecular ecology methods is preferred. You will join the Centre of Excellence in Evolutionary Research at University of Jyväskylä (<http://www.jyu.fi/science/laitokset/bioenv/evoluutiotutkimus/en/>). Part of your training and research will be carried out also at the ETH in Zurich with Jukka Jokela and at the Dept. of Biology of the University of Padova, Italy with Alessandro Grapputo.

Apply by sending (1) a signed letter of application (no more than one A4 page), including the motivation for your application (2) a CV and (3) two reference names with contact details (phone number and e-mail address) by September 15th 2006, to Johanna Mappes, mappes@bytl.jyu.fi <mailto:mappes@bytl.jyu.fi>, or to Prof. Jukka Jokela, jokela@env.ethz.ch <mailto:jokela@env.ethz.ch>

Informal enquiries welcome.

– Dr. Alessandro Grapputo PhD. Dept. of Biological and Environmental Science University of Jyväskylä (street address: Survantie 9 (Ambiotica)) PO Box 35 40014 Jyväskylä Finland

Tel. +358 (0)14 2604222 Fax. +358 (0)14 2602321 e-mail grapputo@cc.jyu.fi

grapputo@cc.jyu.fi

ULeeds EvoloAging

THE ECOLOGY AND EVOLUTION OF AGING

A PhD studentship, concerning the ecology and evolution of aging, is available from October 2006 for an applicant from the UK or EU, under the supervision of Dr. Steven Sait and Dr. Ian Hope at The University of Leeds and Dr. Mike Boots at the University of Sheffield.

BACKGROUND The evolution of ageing remains one of the most challenging of research topics today. Theory predicts that populations experiencing high mortality due to external factors (e.g. from disease or competition) evolve earlier maturity and invest more in reproduction. Theory also assumes that individuals are equally vulnerable to external mortality. However, it has recently been demonstrated that the pattern of ageing evolution is sensitive to complexities associated with age-dependent vulnerability to mortality. The project will investigate the feedback between the individual and the population in variable environments and explore the impact of contrasting selection pressures on the evolution of ageing.

The project takes place within the context of vibrant and diverse research on ecology, evolution, genetics and genomics. In addition to the postgraduate training programme, the student would receive training in molecular and genomics approaches, including their application in ecology and evolution, as well as opportunities to develop models and theory with collaborators at Sheffield. The student would become familiar with experimental design and complex statistical analyses, as well the presentation of results to a variety of audiences and in a variety of formats. This broad research experience will benefit further by extensive interactions with two other related PhD projects and partners at Sheffield and York within a White Rose-funded network.

Informal enquiries can be made to Dr. Steven Sait (s.m.sait@leeds.ac.uk) and Prof. Tim Benton (t.g.benton@leeds.ac.uk).

Further project and network details are available at: <http://www.leeds.ac.uk/rds/schol/wrs-info.htm>. Application forms are available from <http://www.leeds.ac.uk/rds/schol/wrs-app06.htm> or from Mrs Shirley Yeadon, Scholarships Office, The University of Leeds, Leeds LS2 9JT (scholar-

ships@leeds.ac.uk).

Note - The application deadline has been extended until the position is filled. Please return applications and a CV to Mrs. Catherine Bennett, Faculty of Biological Sciences Graduate School, Garstang Building, University of Leeds, Leeds, LS2 9JT, UK.

Dr. Steven M. Sait, Ecology and Evolution Research Group, Institute of Integrative and Comparative Biology, L.C. Miall Building, University of Leeds, Leeds, LS2 9JT. Tel.: 44(0)113 3437039 Fax: 44(0)113 3432835

Steve Sait <S.M.Sait@leeds.ac.uk>

UWuerzburg EvolEcol

PhD studentship available (3 years - BAT IIa/2) in Evolutionary Ecology

We are looking for a PhD candidate to be involved in a project on the evolution of life history, resource allocation strategies, and social structures in halictid bees (Halictidae; Apoidea). The research program is based on a comparative analysis of the variable forms of social organisation and the corresponding life cycles in halictids. The project mainly involves mathematical modelling and/or computer simulations of evolutionary processes in bee populations.

We are seeking a highly motivated candidate interested in theoretical ecology with a background in evolutionary ecology or sociobiology and experience in modelling. Graduates from Theoretical Physics or Applied Mathematics with strong interest in biological systems are equally welcome.

The successful candidate will join the Theoretical Ecology group at the Field Station Fabrikschleichach 60km east of W \ddot{A} $\frac{1}{4}$ rzburg. The project is part of the joined research program (SFB 554) "Mechanisms and Evolution of Behaviour of Arthropods" of the University of W \ddot{A} $\frac{1}{4}$ rzburg.

Start: October 2006 or later

To apply, please send a cover letter describing your research interests, a complete CV and names of two referees by email only to poethke@biozentrum.uni-wuerzburg.de before 31.August 2006.

Prof. Dr. H.J. Poethke Field Station Fabrikschleichach University of W \ddot{A} $\frac{1}{4}$ rzburg Glash \ddot{A} $\frac{1}{4}$ ttenstr. 5 96181 Rauhenbrach/OT Fabrikschleichach

andreas.gros@biozentrum.uni-wuerzburg.de
andreas.gros@biozentrum.uni-wuerzburg.de

Umea EvolMicrobiol

PhD student position in environmental microbiology

One PhD position is available at the National Institute for Working Life, Umea, Sweden. <http://www.arbetslivsinstitutet.se/> The research project is on the characterization of toxic molds in different occupational environments. The focus will be on quantitative detection of fungal species and their metabolites. Genetic diversity and physiological characteristics of fungal community in different environments will be investigated. The goal is to better understand the microbial exposure risk in different environments.

To qualify for the position you need a Master university degree, typically with a minimum of 120 ECTS in biology. Advanced courses in microbiology and molecular biology or the equivalent are desirable. Proficiency in both written and spoken Swedish and English is required. The procedure for recruitment for the position is in accordance with the Swedish Higher Education Ordinance (Högskoleförordningen chpts. 5 and 9). The position is available for a four-year period.

The application should include: (1) a signed letter of application including motivation for your application, (2) a CV (including relevant academic degrees and former positions and a list of which university courses you have taken and the grades you were given), (3) a copy of your graduate work, and (4) certificates to verify the CV.

Closing date is 15th Sept. 2006.

Further information on the position and application procedure can be found at

<http://www.arbetslivsinstitutet.se/ledigatjanster/-default.asp> <<http://www.arbetslivsinstitutet.se/ledigatjanster/default.asp>> Xiao-Ru Wang, PhD National Institute for Working Life SE-907 13 Umeå, Sweden Phone: +46-90-176 115, Fax: +46-90-176 123
xiao-ru.wang@arbetslivsinstitutet.se

Umea EvolMicrobiology

PhD student position in environmental microbiology

One PhD position is available at the National Institute for Working Life, Umea, Sweden.

The research project is on the characterization of toxic molds in different occupational environments. The focus will be on quantitative detection of fungal species and their metabolites. Genetic diversity and physiological characteristics of fungal community in different environments will be investigated. The goal is to better understand the microbial exposure risk in different environments.

To qualify for the position you need a Master university degree, typically with a minimum of 120 ECTS in biology. Advanced courses in microbiology and molecular biology or the equivalent are desirable. Proficiency in both written and spoken Swedish and English is required. The procedure for recruitment for the position is in accordance with the Swedish Higher Education Ordinance (Högskoleförordningen chpts. 5 and 9). The position is available for a four-year period.

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Further information on the position and application procedure can be found at

<http://www.arbetslivsinstitutet.se/ledigatjanster/-default.asp> Xiao-Ru Wang, PhD National Institute for Working Life SE-907 13 Umeå, Sweden Phone: +46-90-176 115, Fax: +46-90-176 123

xiao-ru.wang@arbetslivsinstitutet.se

UppsalaU EvolFuncGenomics

Graduate student position (Doktorand) at the Department of Evolutionary Functional Genomics Uppsala

University <http://www.genetik.uu.se/> One PhD position is available at the Department of Evolutionary Functional Genomics at Uppsala University starting autumn 2006. 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.

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. The trait has been extensively studied in quantitative genetic studies that have revealed a strong clinal variation and that a large part of the variation is under genetic control. The aim of the present project is to elucidate the molecular mechanisms controlling bud set, and to identify the genes that control the adaptive clinal variation for this trait. The 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 gene expression studies, transformation of Norway spruce and Arabidopsis, analysis of DNA sequence variation, SNP genotyping and association mapping. The current project will mainly focus on functional characterization of candidate genes through expression and transformation experiments. The work will be conducted within a research group of currently 5 persons with both national (SLU) and international (Canada, Italy) cooperation.

We are looking for an applicant with a strong interest in molecular plant biology 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, RNA work or plant transformation) and bioinformatics 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: Niclas Gyllenstrand, 018-471 64 13 Niclas.Gyllenstrand@ebc.uu.se Ulf Lagercrantz, 018-471 64 18, Ulf.Lagercrantz@ebc.uu.se or Martin Lascoux, 018- 471 64 16, Martin.Lascoux@ebc.uu.se

Departmental home page: <http://www.genetik.uu.se/>

Union representatives: Anders Grundström, SACO-rådet, tel 018-481 53 80, Carin Söderhäll, TCO/ST, tel 018-471 19 96 and Stefan Djurström, SEKO, tel 018-471 33 15.

Send your application to: Registrar, UFV-PA 2006/1989, Uppsala Universitet, Box 256, 751 05 Uppsala or fax 018-471 2000 no later than September 18 2006. 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 EGS, EBC, Uppsala University Norbyvägen 18D, 75236 Uppsala Tel: 46 18 471 64 16 Fax: 46 18 471 64 24

martin.lascoux@ebc.uu.se

UtrechtU HostPathogens

Theoretical Biology/Bioinformatics, Utrecht University: Ph.D. position in evolution of host-pathogen interactions

The Theoretical Biology/Bioinformatics Group (TBB) invites outstanding and highly motivated candidates to apply for a phd position to study evolution of host-pathogen interactions. The successful candidate will be under supervision of Dr. Can Kesmir and will work in collaboration with Dr. Berend Snel and Prof. Rob de Boer. The aim of the project is to study a number of innate response pathways using a comparative genomics approach to understand the evolution of these pathways. The specific project can be discussed between the candidate and Dr. Kesmir, according with the general idea exposed above and the particular interests of the candidate.

Skills: A solid background in bioinformatics and/or the modeling of biological systems; good computer skills (at least in Perl); good oral and written communication abilities; enthusiasm to work with an interdisciplinary team; commitment to work to the high standards of TBB; capacity for independent working and training in cross-disciplinary subjects (eg. physicist with biology training, or biologist with mathematical training).

Education: A masters degree in a relevant scientific field (e.g., biology, biochemistry, immunology, computer science, physics, mathematics) is required.

Salary: We offer a full time temporary appointment for

four years for the PhD position. Gross salary starts with 1.933,- per month in the first year and increases to 2.472,- in the fourth year of employment.

The salary is supplemented with a holiday bonus of 8%. Conditions are based on the Collective Employment Agreement of the Dutch Universities.

Application Procedure: Please send application letter including a short statement of work interests and resume with academic qualifications to c.kesmir@bio.uu.nl. After initial screening, more information and 2-3 letters of recommendation may be requested, followed by an interview (preferably at TBB, Utrecht).

For general information about TBB please refer to <http://theory.bio.uu.nl>. A summary of Dr. Kesmir's research can be found at theory.bio.uu.nl/kesmir/immbioinf.html. Theoretical immunology research in TBB is described at theory.bio.uu.nl/rdb/immune/. For specific questions about the position contact Dr. Can Kesmir, c.kesmir@bio.uu.nl.

Can Kesmir

Theoretical Biology/Bioinformatics Utrecht University
Padualaan 8 3584 CH Utrecht The Netherlands

tel: 31-30-2534212 (New phone number!) fax: 31-30-2513655 e-mail: C.Kesmir@bio.uu.nl

Can Kesmir <C.Kesmir@bio.uu.nl>

WrightStateU FungusRadiation

Project Title: Collaborative Research: Adaptive radiation of a gall midge-fungus mutualism in a multitrophic context

I am (still) looking for a PhD student to work on an NSF funded collaborative project examining the ecology and evolution of an incipient adaptive radiation of gall midges (Cecidomyiidae) and their symbiotic fungi on goldenrods (*Solidago*). See the project summary below for a brief overview of our goals. One Ph.D. assistantship is available for this study at Wright State University in the interdisciplinary PhD program in Environmental Science (<http://www.wright.edu/academics/envsci/index.html>). Admission into the PhD program will be required of the selected applicant. A start date of Jan. 1 or June 1 (2007) would be preferred; However I would consider Fall 2007 start

for the exceptional applicant. Salary is \$16,044/year plus tuition costs covered. Send letter of interest, resume, GRE scores, transcripts, and names and contact information for 3 references to:

John O. Stireman III Department of Biological Sciences
3640 Colonel Glenn Highway 235A, BH, Wright State University Dayton, OH 45435

Phone: 937-775-3192 email: john.stireman@wright.edu

See my Web page for publications and research interests in the Stireman lab <http://www.wright.edu/~john.stireman> Project summary

Adaptive radiation has long been a central theme in evolutionary biology and this selection driven process is thought to be a fundamental engine of biological diversification. Recent years have seen a tremendous growth in empirical studies and synthetic reviews of the subject. Our proposed work, however, addresses an important shortcoming: there are almost no studies of how species interactions other than competition promote or hinder adaptive radiation. In particular, there is a dearth of studies examining how trophic interactions among species spur or inhibit adaptive diversification. Given that most species are embedded in complex ecological networks encompassing multiple trophic and/or symbiotic interactions, the shortage of work in this area means we currently lack data of general significance, essential to ground-truth new theory and predictions concerning the causes and processes of adaptive radiation and biological diversification.

The focus of the proposed work is the pattern and process of adaptive radiation in a multi-trophic community context. Preliminary evidence suggests that the gall midge *Asteromyia carbonifera* and its fungal associate (*Botryosphaeria* sp.) are undergoing an incipient, rapid radiation on their goldenrod (*Solidago* spp.) hosts. Furthermore, the midges suffer extraordinarily high rates of parasitism by hymenopteran parasitoids, the distribution of which suggests that these enemies may influence adaptive divergence of their midge hosts. We will focus on understanding how adaptive radiation in this system is influenced by geography, interactions between mutualists, and interactions between trophic levels. We propose to employ genetic analyses (e.g., DNA sequencing, AFLPs, microsatellites) and laboratory/field studies to reconstruct the recent history and ongoing population genetic and ecological processes involved in radiation of the midge-fungus species complexes.

Cecidomyiid gall midges have long attracted attention for their phenomenal taxonomic and ecological diversity. The proposed work will enable a detailed dissec-

tion of the patterns and processes of gall midge diversification in its earliest stages. Most importantly, the work will provide a tractable model for exploring how adaptive divergence in complex ecological systems is influenced by hosts, mutualists, natural enemies, and their interactions.

John O. Stireman III Assistant Professor Department of Biological Sciences 3640 Colonel Glenn Highway 235A, BH, Wright State University Dayton, OH 45435

Phone: 937-775-3192 john.stireman@wright.edu
<http://www.wright.edu/~john.stireman>
 john.stireman@wright.edu john.stireman@wright.edu

Jobs

CollegeCharleston Bioinformatics	26	UCalifornia Merced LabAssist MolSyst	35
CollegeCharleston MarineGenomics	27	UGlasgow EvolBiol	36
Denmark GeneticsResearchDirector	28	UIdaho 2 EvolBiol	36
EAWAGLucerne EvolModelling	29	UIllinois EcologicalGenomics	36
ImperialCollegeLondon ClimateChangeBiology	29	UManchester ResearchTech QuantGenet	37
InstZoolLondon EvolBiol	30	UMontreal Statistical Genetics Epidemiology	37
IowaStateU EcolEvol	30	UMunich PopGenet	38
KansasStateU ResTech	31	UPoitiers 2 EvolEcol	38
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CollegeCharleston Bioinformatics

Applications and nominations are invited for the Endowed Professorship in Bioinformatics at the College of Charleston. This is one of two endowed appointments to be made within the Center for Economic Excellence in Marine Genomics being developed in partnership between the College of Charleston and the Medical University of South Carolina. It is anticipated that the appointment will be made at the level of Associate Professor or Professor in the Department of Biology at the College (see www.cofc.edu/~biology) and this position will carry a joint appointment with the Medical University of South Carolina.

The successful applicant will have a demonstrated track

record as a scholar in a collaborative and collegial setting, a strong commitment to teaching at all levels and to mentoring both graduate and undergraduate students, and, ideally, will also have significant experience with the mechanisms for enhancing research value through economic development (e.g., intellectual property, interaction with relevant industries, translational research activities, etc.). Experience as a research team leader or as a research program director is highly desirable.

The individual appointed will be expected to provide academic and program leadership to the Bioinformatics Group within the Marine Genomics Program in Charleston and to interact with the newly established Discovery Informatics program at the College of Charleston. The appointee will be expected to develop or enhance a strong extramurally funded research program in bioinformatics, especially as applied to marine

genomics, mentor graduate students, teach courses in their area of expertise, and promote economic initiatives related to their research that could assist relevant stakeholders.

The Marine Genomics Program is an integrated, highly collaborative effort that brings together over 40 faculty, students and staff from the College of Charleston, the Medical University of South Carolina, the SC Department of Natural Resources, and the National Oceanic and Atmospheric Administration and the National Institute of Standards and Technology (both agencies of the U.S. Department of Commerce) on the Fort Johnson Marine campus, five miles from downtown Charleston. In addition to these Charleston-based agencies, the Marine Genomics program has a strong network of contacts and collaborations regionally, nationally and internationally. The Marine Genomics program is focused on applying the power of genomic approaches to increasing understanding of the interactions of marine organisms with their environment, including infectious diseases, and the relationship between the oceans and human health. Historic Charleston SC, with its location on the biologically very diverse southeast Atlantic marsh, is a natural and beautiful surrounding for articulating a globally driven effort to monitor, understand, protect and manage the marine environment.

The current Marine Genomics Program bioinformatics infrastructure (<http://marinegenomics.org>, see also BML Genomics 2005, 6:34) includes cDNA and RNA sequence information for over 20 species, working as a clearing-house maintaining over 60,000 sequence entries, and with both databases increasingly rapidly. In the past year, the bioinformatics research and development efforts have added a strong focus on expression data to assist in the design of microarrays for the in-house production facility and the subsequent acquisition and analysis of microarray hybridization data (see publications in the Marine Genomics Program URL). This is a unique opportunity for both fundamental and applied advances as the Marine Genomics Program and its worldwide network of associates are starting to use these microarrays beyond in vitro experimentation, and increasingly as tools for experimental field biology. The bioinformatic component of this initiative has been described as a biosensor calibration exercise (Comparative and Functional Genomics, 6(3):132-137(6)) which creates the opportunity for fundamental advances in systems biology by correlating the transcriptomic information with metabolic, regulatory and signaling information. A marine proteomics component is emerging that will reinforce the ability to move towards systemic approaches to marine biology.

The successful candidate will coordinate an existing

team of programmers and computational biologists and will drive the conceptual and theoretical interpretation of the experimental results. The Bioinformatics effort is configured as an active member of the open source community and as such is driven towards publication of results, dissemination of open source software tools and articulation of the data repositories with public resources such as those maintained by NCBI and EMBL. Accordingly, the computing infrastructure is based on Linux blade servers and the tools

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CollegeCharleston MarineGenomics

Marine Genomicist

The Department of Biology, College of Charleston, invites applications for a tenure-track position at the Assistant Professor level to begin August, 2007. This position is part of our new marine genomics program, (<http://marinegenomics.org>) involving the colleges Grice Marine Laboratory (<http://www.cofc.edu/~grice>) and several adjacent federal and state institutions. Candidates must possess a Ph.D. in Biology or a closely related field, a strong commitment to teaching, and an active research program in genomics and marine biology involving undergraduates. Teaching responsibilities include a sophomore level course in genetics, and undergraduate and graduate courses in genomics that could serve as offerings in our interdisciplinary program in discovery informatics (<http://di.cofc.edu>). The College of Charleston is a public liberal arts institution of 10,000 students. The Colleges 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 1, 2006 to: Chair, Department of Biology, Marine Genomics 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.

“Sotka, Erik” <SotkaE@cofc.edu>

Denmark GeneticsResearchDirector

The Ministry of Food, Agriculture and Fisheries

The Danish Institute of Agricultural Sciences

Research director - reannouncement

At the Danish Institute of Agricultural Sciences (DIAS), Department of Genetics and Biotechnology, a position as research director is vacant. The department has activities at the research centres in Foulum and Flakkebjerg and at The Royal Veterinary and Agricultural University (KVL) at Frederiksberg.

The department carries out fundamental and strategic research in the genetic and molecular basis of properties in biological systems as well as develops and implements new methods and strategies to be used in animal husbandry and plant breeding.

Fields of work and responsibilities

The research director is in charge of the scientific and administrative management of the Department of Genetics and Biotechnology according to the DIAS strategy and other directives including:

- * management of the department’s research including the elaboration of strategy and research working programmes, supervision, implementation and updating of these programmes as well as dissemination of research results,
- * management of the department’s expert advice to public authorities and dissemination,
- * encourage the integration of department research within the fields of plants and animal husbandry,
- * coordination and promotion of the scientific cooperation within the department as well as with other DIAS departments,
- * promotion of the department’s scientific cooperation, nationally as well as internationally, including the cooperation with the agricultural industries,
- * staff management including recruitment, development and dismissal of staff ,
- * observance of appropriations, grants and budgets,
- * allocation of grants and staff among the various de-

partment activities, purchase of research equipment etc., and

* observance of relevant legislation, administrative guidelines etc.

The research director should always be thoroughly informed in relation to

* the latest scientific research - nationally as well as internationally - of relevance to the department’s research areas,

* conditions and needs of society - and of the agricultural industries - which are relevant to the department’s research, including the need for relevant research results, and at the same time ensuring that department research is coordinated in relation to these.

The research director refers to the DIAS Board of Directors and is a member of the group including the management and heads of department.

Qualification requirements

DIAS considers the following qualifications to be of great importance:

- * scientific education from a university or an institute of higher education,
- * documented research qualifications at professorship level within central parts of the department’s research areas,
- * experience in research- and staff management,
- * experience in administrative functions relevant to the position,
- * leadership ability and the ability to cooperate, inspire and motivate, and
- * ability to encourage scientific cooperation within the department’s research area, nationally and internationally, as well as the ability to encourage the cooperation with the agricultural industry and relevant industries within the food sector.

An evaluation committee will evaluate the scientific qualifications of the applicants. For this purpose the application should include a full curriculum vitae, a description of the applicant’s professional research profile, a complete list of publications, reprints of publications of central importance to the application, and a motivation for the application.

Salary and terms of employment

The position is a civil servant position classified in wage scale 37 according to which the total annual salary amounts to DKK 474,766.00 (level of 1 April 2006). In addition to this, a temporary wage bonus may be

paid after negotiations with the relevant trade union.

The position may be a fixed-term employment, and in this case employment will be on a 5-year term and may be prolonged. Employment will be on terms of collective agreement unless the applicant is already a civil servant. When employment is on fixed-term conditions an additional salary bonus will be paid after negotiations with the relevant trade union, and pension terms will be specified with due consideration to whether or not the applicant is already a civil servant. A total wage at a very attractive level may be expected.

For further information please contact general director Just Jensen, tel. 8999 1680 or deputy director Ole Olsen, tel. 8999 1041. Please cf. detailed job description.

Place of employment and place of work

In case of a fixed-term employment as a civil servant the employment area is the Danish Institute of Agricultural Sciences, and in case of a

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

EAWAGLucerne EvoModelling

Eawag (Swiss Federal Institute for Aquatic Science and Technology) is a Swiss-based, internationally-operating aquatic research institute committed to ecological, economical and socially-responsible management of water resources. The Department Surface Waters Research and Applications is offering a tenure track position for interdisciplinary research in

Aquatic Ecological System Analysis and Modelling Location: EAWAG Limnological Research Centre Kastanienbaum (near Lucerne)

We are seeking an innovative personality with an excellent track record in science and interest in and ideas for interdisciplinary research. She/he should be familiar with the general tools of system analysis and physical / bio-geochemical as well as population ecological and population genetic modelling, be interested in biogeochemical processes in aquatic systems, and in how they link to adaptive processes at population and ecosystem level. He/she should be interested in col-

laboration with scientists of other disciplines in interdisciplinary projects. A strong background in math or numerics as well as in aquatic physics, aquatic ecology, environmental engineering or biogeochemistry is required. The successful candidate is expected to build a research group and interact intensively and in an interdisciplinary fashion with the other research groups within the Kastanienbaum laboratory (80 persons), and with the departments System Analysis / Modelling, Ecology, Fish ecology and Evolution, and other research groups at Eawag. Teaching at ETH is envisaged in the long-term.

Surface Waters - Research and Management consists of six research groups involved in the entire setting of aquatic research from microbiology, geochemistry and isotope analysis to physics. A special focus is the interdisciplinary approach to mass fluxes and cycling in aquatic ecosystems. Our facilities include besides a fully equipped laboratory on molecular biology, analytical chemistry and stable isotopes, as well as excellent facilities for field work.

Please send your application to Personnel Department, Eawag, Ueberlandstrasse 133, CH-8600 Duebendorf. For additional information please consult our homepage www.eawag.ch or contact Alfred J. Wüest (alfred.wueest@eawag.ch). E-mail applications will be deleted and not considered. Application deadline: August 31, 2006.

Unofficial note by sender: these positions are effectively tenure track research professorships.

Prof Ole Seehausen Aquatic Ecology & Evolution

Institute of Zoology University of Bern Baltzerstr. 6, CH-3012 Bern Phone +41 31 631 31 31 FAX +41 31 631 30 08 and EAWAG Ecology Research Center Seestrasse 79 CH-6047 Kastanienbaum Phone +41 (0)41 349 21 21 Fax +41 (0)41 349 21 68

<http://www.fishecology.ch/>
ole.seehausen@aqua.unibe.ch

ImperialCollegeLondon ClimateChangeBiology

Imperial College London, Division of Biology, Silwood Park

ACADEMIC FELLOWSHIP/LECTURESHIP in Climate Change Biology

Salary: Academic Fellow: £36,200 ? 40,430 As part of a new College-wide initiative in climate change research, we seek to appoint a permanent staff member who works in the broad area of climate change biology (i.e. including interactions between climate change and population, community or ecosystem issues using theoretical and/or experimental approaches; working on plant, animal or microbial systems; and tackling pure or applied problems). The appointment will be made under the RCUK Academic Fellowship Scheme, which is designed to provide an attractive career path for talented young researchers (<http://www.rcuk.ac.uk/acfellow/>). The successful applicant will therefore be initially appointed on a 5-year fellowship, which will then lead to a permanent faculty position on successful completion of a probationary period.

The fellow will be a member of the Division of Biology, an RAE 5* department in the Faculty of Natural Sciences. The Division includes the Ecology & Evolution Section and the NERC Centre for Population Biology, both of which are based at Imperial College's Silwood Park campus. The fellowship will be based at Silwood Park, working alongside academics with strong international reputations in the fields of ecology, evolution and environmental biology.

The successful applicant will be highly motivated, with a PhD in a relevant subject, and will have a strong research publication record. He or she will be expected to develop an independent and externally-funded research programme, and to eventually contribute to teaching at undergraduate and postgraduate levels. Candidates who hold current fellowship awards, or have other sources of research income, are encouraged to apply. Under the rules of the RCUK scheme, however, those who already have permanent faculty jobs are not eligible for this fellowship.

For further information and application forms contact Mrs Diana Anderson at Division of Biology, Imperial College London, Silwood Park Campus, Ascot, Berks, SL5 7PY (d.anderson@imperial.ac.uk).

Closing date: 22nd September, 2006

– Prof. Ian P.F. Owens Division of Biology & NERC Centre for Population Biology Imperial College London Silwood Park Ascot, Berkshire SL5 7PY, UK

<http://www.imperial.ac.uk/people/i.owens> Ian Owens <i.owens@imperial.ac.uk>

InstZoolLondon EvolBiol

Institute of Zoology Zoological Society of London

Senior Research Fellow

Salary GBP42,989 to GBP48,309 (inclusive of London Weighting) (depending on relevant research experience)

The Institute of Zoology is a HEFCE funded research institute affiliated to the University of Cambridge. It is a part of the Zoological Society of London. Staff are based in Regent's Park, London with access to excellent research facilities.

We are seeking an outstanding researcher for a vacancy at the level of Senior Research Fellow.

Senior Research Fellows are established researchers with an active research programme and a track record of success in internationally competitive science. The successful applicant will be able to demonstrate research leadership and a strong international reputation. You will be expected to develop and lead a group within some area of conservation biology relevant to the Institute's research strategy. Currently we are seeking to recruit in a relevant area of ecology, evolution and animal behaviour.

For further information, please see www.ioz.ac.uk or contact the HR Department at the address below. Informal enquiries may be directed to the Director of Science, Professor Georgina Mace (Georgina.Mace@ioz.ac.uk).

Applicants should forward a covering letter and CV, with full details of research interests and the names and contact details of three referees, to HR Dept., ZSL, Regent's Park, London NW1 4RY or (hr@zsl.org) by 15th September 2006.

Registered Charity Number: 208728

w.jordan@ucl.ac.uk

IowaStateU EcolEvol

Ecology and Evolution of Organisms- Iowa State University, Ames

The Department of Ecology, Evolution, & Organismal Biology at Iowa State University seeks a tenure-track Assistant Professor who excels in any area compatible with our department's interests in the ecology and evolution of organisms.

Potential research areas include: form, function, and adaptation plasticity, perceptory systems and behavior population dynamics, species interactions, and ecological organization diversification and systematics.

The successful candidate will join a dynamic department of 34 faculty who use integrative approaches that bridge disciplines and span multiple levels of biological organization. Applicants must have a Ph.D. in a biological science and are expected to develop a nationally recognized research program and contribute to undergraduate and graduate teaching.

Submit cover letter, CV, 3 reprints, research & teaching statements, & 3 letters of recommendation electronically to: eeobsearch@iastate.edu by 15 Oct 2006 For more information and instructions, please see <http://www.eeob.iastate.edu/search>. Direct questions to Dr. Carol Vleck, Search Committee Chair (cvleck@iastate.edu).

The department is committed to fostering a culturally diverse educational environment. ISU is an Equal Opportunity /Affirmative Action Employer.

Dean C. Adams Associate Professor Department of Ecology, Evolution, and Organismal Biology, and Department of Statistics 253 Bessey Hall Iowa State University Ames, IA 50011 tel: (515) 294-3834 fax: (515) 294-1337 web: <http://www.public.iastate.edu/~dcadams> Dean Adams <dcadams@iastate.edu>

KansasStateU ResTech

Research Technician, Division of Biology, Kansas State University

A position is available for a Research Technician in our lab in Division of Biology at Kansas State University. We are seeking an enthusiastic person interested in science to manage day-to-day lab activities and participate in our molecular quantitative genetic research projects. We are investigating the genetic control and evolution of environmental-stress-response phenotypes in *Drosophila melanogaster* (see <http://www.ksu.edu/-morganlab>). Job responsibilities will include maintaining *Drosophila* stocks, performing basic molecular biol-

ogy techniques, and participating in large scale assays of *Drosophila* phenotypes. Additional opportunities for independent research projects may exist, depending on the experience and interest of the successful candidate. Minimum required qualifications: B.S. degree in biology or a related field and a minimum of 1-2 years experience in genetics or molecular biology. This should include experience with DNA/RNA extraction, PCR, and DNA sequencing. Preferred: M.S. degree in biology or related field. The successful candidate should be motivated, have good organizational skills, and be able to work independently. Salary will be commensurate with experience and will include benefits.

Kansas State University has a very active community within the life sciences, thus creating numerous opportunities for stimulating academic interaction. These include the large and diverse Division of Biology (www.ksu.edu/biology), as well as the interdepartmental programs of the Ecological Genomics Institute (www.ksu.edu/ecogen) and the Arthropod Genomics Center at Kansas State University.

Kansas State University is located in the city of Manhattan (www.ci.manhattan.ks.us), a pleasant community of about 50,000 located in the scenic Flint Hills of north central Kansas, about 2 hours west of Kansas City. Local recreational opportunities include programs in the performing arts, a large lake/park system, and the 8,616 acre Konza Prairie Biological Station, a tall-grass prairie reserve that is jointly managed by the Division of Biology, that contains several miles of hiking trails as well as about 200 bison.

Review of applications will begin on September 13, 2006, and continue until the position is filled. To apply, send or email a cover letter, CV, and three professional letters of reference to:

Ted Morgan Division of Biology Kansas State University Ackert Hall Manhattan, KS 66506 Phone: 785-532-6126 Fax: 785-532-6653 email tjmorgan@ksu.edu.

KSU is an equal opportunity employer and actively seeks diversity among its employees.

Theodore J Morgan Division of Biology Kansas State University 232 Ackert Hall Manhattan, KS 66506

office: 785.532.6126 lab: 785.532.6074 fax: 785.532.6653

tjmorgan@ksu.edu tjmorgan@ksu.edu

SyracuseU VertEvol

LAB ASSISTANT (BIOLOGY DEPARTMENT, SYRACUSE UNIVERSITY) R. Craig Albertson seeks to hire a broadly trained (and broadly interested) lab assistant who will join his new research laboratory whose primary focus is the development, genetics and evolution of skeletal patterning in aquatic vertebrates. A Bachelor's degree (or higher) is preferred, and preference will be given to a person with experience or interest in molecular biology and/or aquatic husbandry. Responsibilities will include any combination of the following tasks: ordering and organization of chemicals and reagents, husbandry of aquatic animals (zebrafish and cichlid fishes), and molecular biology (PCR, cloning, in situ hybridization, etc.). The specific responsibilities of the successful applicant will depend on his/her unique set of interests and skills. Please submit a brief letter of application, CV, and contact information for two references as an attachment to the online application. Refer to: www.sujobopps.com Job #022735

from Sara Hallahan <swhallah@syr.edu> but apply above ... not to this address. but apply above ... not to this address.

Tennessee Ichthyology

Assistant/Associate Professor - Fish ecology, evolution and/or systematics

The Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville, seeks to fill a tenure-track position in Ichthyology at the Assistant or Associate Professor level, to start August 1, 2007. Teaching duties will include an undergraduate ichthyology course and a discipline-specific graduate course. A major responsibility of this position is supervision and further development of the superb UT fish collections. Successful applicants will have demonstrated the ability to interact and collaborate broadly in their research and teaching. An earned Ph.D. in a relevant field is required. Postdoctoral or faculty experience is preferred, and applicants will be expected to develop

an externally funded and internationally recognized research program. For more information visit <http://eeb.bio.utk.edu>. Candidates should apply to: Dr. Edward E. Schilling, Department of Ecology and Evolutionary Biology, 569 Dabney Hall, University of Tennessee, Knoxville, TN 37996. Applicants should send a curriculum vitae, statements of research and teaching goals, and arrange for three reference letters to be submitted. Applications will be reviewed beginning 20 October 2006 and continuing until the position is filled.

The University of Tennessee, Knoxville, is the state's flagship research institution, a campus of choice for outstanding undergraduates, and a premier graduate institution. As a land-grant university, it is committed to excellence in learning, scholarship, and engagement with society. In all its activities, the university aims to advance the frontiers of human knowledge and enrich and elevate society. The university welcomes and honors people of all races, genders, creeds, cultures, and sexual orientations, and values intellectual curiosity, pursuit of knowledge, and academic freedom and integrity. The university intends that its graduates will promote the values and institutions of representative democracy, and be prepared to lead lives of personal integrity and civic responsibility. The University of Tennessee does not discriminate on the basis of race, sex, color, religion, national origin, age, disability or veteran status in provision of educational programs and services or employment opportunities and benefits. This policy extends to both employment by and admission to the University. The University does not discriminate on the basis of race, sex or disability in its education programs and activities pursuant to the requirements of 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 the Americans with Disabilities Act (ADA) of 1990. Inquiries and charges of violation concerning Title VI, Title IX, Section 504, ADA or the Age Discrimination in Employment Act (ADEA) or any of the other above referenced policies should be directed to the Office of Equity and Diversity (OED), 1840 Melrose Avenue, Knoxville, TN 379963560, telephone (865) 9742498 (V/TTY available) or 974-2440. Requests for accommodation of a disability should be directed to the ADA Coordinator at the UTK Office of Human Resources, 600 Henley Street, Knoxville, TN 379964125.

rsmall@utk.edu rsmall@utk.edu

UBuffalo EvolBiol

The Department of Biological Sciences (www.biology.buffalo.edu) at the University at Buffalo is seeking outstanding applicants with expertise in the study of evolutionary biology for a tenure-track Assistant Professor position. The successful candidate is expected to establish an active, externally funded program of research and scholarship in their area of expertise. This position is part of an ongoing initiative in this area within the University (www.buffalo.edu/ub2020/).

The University offers outstanding research facilities with opportunities for interdisciplinary interactions at the university, Roswell Park Cancer Institute, and the NYS Center of Excellence in Bioinformatics and Life Sciences. Substantial setup packages will be provided. Candidates will be expected to participate in graduate and undergraduate teaching. Applicants should have a Ph.D. (or other doctorate degree), at least two years of postdoctoral experience, a scholarly publication record and a command of spoken and written English. To apply, please electronically submit curriculum vitae, description of current and future research interests, up to three recent or in press publications, and three reference letters to the Evolution Search Committee (evosearch@bio.buffalo.edu). Application review will begin October 1, 2006 and continue until the position is filled. Consult our website for information regarding the Institute, Department, University and community.

The University at Buffalo is an Equal Opportunity Employer/Recruiter

Derek Taylor <djtaylor@buffalo.edu>

UCBerkeley ResAssoc Biodiversity

Job Description for Staff Research Associate II: The MVZ is a national leader in biodiversity informatics and in georeferencing of natural history collections to facilitate studies in conservation, ecology, and evolution. The person to be hired will act as the Georeferencing Supervisor for the HerpNet project and will

work closely with the HerpNet Coordinator. Duties include:

- 1) Use geographic tools (gazetteers, paper and online maps, Terrain Navigator, GIS software) along with data from field observations to determine geographic coordinates from descriptive localities (*i.e.*retrospective georeferencing). (30%)
- 2) Use geographic tools to verify and error check previously determined geographic coordinates. (30%)
- 3) Assist in analysis of these data and manage database files. (5%)
- 4) Train and oversee students and volunteers who will be georeferencing museum specimen localities, obtaining maps from map libraries, and using various georeferencing resources. (15%)
- 5) Communicate extensively via e-mail with personnel from other museums (georeferencers, curators, collection managers) to obtain their georeferenced locality files and send verified files to the HerpNet programmer at University of Kansas. (10%)
- 6) Assist with georeferencing workshops to train personnel from other museums. (10%)
- 7) Hire will be 50% minimum for one year.

Qualifications:

Required: Bachelors in Environmental Science, Biology, Geography or related field. Experience with GIS applications (specifically ESRI products) necessary. Proficiency with Microsoft Access. Preferred: Extensive experience georeferencing and validating geographic data from natural history collections. Familiarity with georeferencing localities in the US and using paper maps. Experience training students and other personnel using online geographic tools and GIS.

Pay Scale: \$17.02 per hour.

Other: This position is 50% minimum for one year.

Employment beyond 31 July, 2007 is dependent on further funding.

To apply: The Job number is 005012, the location of the website is <http://jobs.berkeley.edu/> Cheers, Carol

Carol L. Spencer Museum of Vertebrate Zoology 3101 Valley Life Sciences Building University of California, Berkeley, CA, USA 94720-3160 atrox@berkeley.edu phone 510-643-1620 fax 510-643-8238 <http://www.herpNet.org> atrox10@gmail.com

UCaliforniaMerced LabAssist MarineGenomics

Position: Laboratory Assistant on Marine Genomics.
University of California, Merced

Description: The University of California is creating a dynamic new university campus and campus community in Merced, California, which opened in August 2005 as the tenth campus of the University of California and the first American research university built in the 21st century. The campus is located at the base of the Sierra Nevada foothills, near Yosemite and the San Francisco Bay Area.

A full-time Laboratory Assistant position is available as part of ongoing NSF-funded projects to look at the evolutionary developmental biology of sea slugs and/or functional genomics of coral- zooxanthellae symbiosis in two Caribbean corals. The exact position, level of expectation and responsibility will depend upon previous education and experience. The successful candidate will be part of a multidisciplinary research team and a member of the Quantitative Systems Biology Group in the School of Natural Sciences.

Duties: Duties include but are not limited to: cDNA library construction, sequencing, library screening, gene expression microarray analyses, real-time quantitative PCR, in situ hybridizations and other developmental techniques. Participation in fieldwork in the Florida Keys and other Caribbean sites. Potential for scientific diving.

Questions regarding the exact duties and responsibilities may be addressed to: mmedina@ucmerced.edu. Additional information about the School of Natural Sciences and the University of California at Merced can be found at <http://www.ucmerced.edu>. Conditions: The position is available immediately. Salary negotiable based on experience. Continuation is contingent on performance and availability of funds. The position includes generous benefits. The University of California at Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students.

Education: B.A or M.S. in Biology. Previous research experience in molecular biology, developmental biology, gene expression analysis/functional genomics, or

a related field is required. Additional desired skills include bioinformatics (DNA sequence and microarray data management) and microarray statistics.

Instructions: Applicants should submit a cover letter, curriculum vitae or resume, and a list of three or more references including telephone numbers and email address to: [Mónica Medina](mailto:Mónica.Medina@ucmerced.edu) mmedina@ucmerced.edu. Online add at: <http://jobs.ucmerced.edu/n/staff/position.jsf?positionIdW4>

Deadline: Until a suitable candidate is identified.

Monica Medina Assistant Professor and Founding Faculty School of Natural Sciences University of California, Merced P.O. Box 2039 Merced CA 95344 tel: 209-381-7863 fax: 209-812-1857 mmedina@ucmerced.edu <http://qsb.ucmerced.edu/mmedina/> Monica Medina <mmedina@ucmerced.edu>

UCaliforniaRiverside LabAssist

Lab Assistantship: I am seeking a lab assistant who is interested in starting in the immediate future. The position is part of an NSF sponsored research program, is available for up to three years and pays from \$2,200 to \$2,600 per month, depending on experience. This position is ideal for someone who has just finished a bachelors or masters degree and is looking for an appointment of a year or more while deciding what the next step in your career will be.

The assistant will manage a fish lab in which we are maintaining breeding populations of 20 species of fish in the family Poeciliidae. Responsibilities will include maintaining lab stocks, maintaining ongoing experiments, managing a team of undergraduates who assist in lab maintenance and interacting with graduate students and the PI in the execution of experiments. The assistant will also be encouraged to join in general lab activities with the large and highly interactive graduate group associated with this research program.

We are investigating the evolution of placentas in this family. We have found that the functional equivalent of a placenta has evolved at least six times within the family. There are often close relatives that either lack a placenta or have a placenta in intermediate stages of development. The lab work on live fish includes generating descriptions of the life histories of the fish and executing experiments that characterize the consequences of having a placenta. Other facets of the project in-

clude molecular phylogenetics, field research and the description of life histories based on the dissection of field-collected fish, and preliminary studies of the genes that underlie the evolution of the placenta.

Please submit a CV and the names and contact information for three referees to:

David Reznick

david.reznick@ucr.edu Department of Biology

University of California

Riverside, CA 92521

Project Summary: An unanswered question in biology is how do complex traits evolve?. This question endures as an area of controversy because of a paucity of empirical evidence and because the process unfolds on a time scale that is far longer than human experience. We propose developing a model system for the evolution of complexity by studying the evolution of the placenta in the fish subfamily Poeciliinae. This group of fish offers a unique opportunity to study the evolution of complexity because placental adaptation exhibits: 1) dynamic variation: placentas appear to have evolved five or more times in the family, 2) serial variation: in several cases, closely related species exhibit either no placentas, intermediate stages, or highly developed placentas, and 3) quantitative variation: an objective criterion for pre- versus post-fertilization maternal provisioning exists which provides an index of placental performance. Furthermore, these fish are readily reared and bred in captivity, are easily studied in nature, and have an excellent prior history as subjects in laboratory and field studies. Here we will use a combination of molecular and morphological systematics to define relationships within the subfamily and the relation of the subfamily to the remainder of its order. We will describe the life histories of these fish so that we can combine life history and phylogeny data, then apply statistical methods that will allow us to infer the patterns of evolution of life histories in the subfamily. We will also use these methods to develop hypotheses for how and why the placenta evolved. Finally, we propose a series of laboratory experiments that test predictions and assumptions derived from recently developed theory for the evolution of placentas.

david.reznick@ucr.edu

UCalifornia Merced LabAssist MolSyst

“LAB ASSISTANT POSITION AVAILABLE AT THE UNIVERSITY OF CALIFORNIA, MERCED”

Description: The University of California is creating a dynamic new university campus and campus community in Merced, California, which opened in August 2005 as the tenth campus of the University of California and the first American research university built in the 21st century. The campus is located in the Central Valley, at the base of Yosemite National Park, Sierra Nevada, and is two hours away from the San Francisco Bay Area.

A full-time Laboratory Assistant position is available as part of ongoing research projects on the systematics and evolution of invertebrates, especially mollusks. The exact level of expectation and responsibility will depend upon previous education and experience. The successful candidate will be part of a multidisciplinary research team and a member of the Quantitative Systems Biology Group in the School of Natural Sciences.

Duties include, but are not limited to: molecular systematics (DNA extraction, PCR, cloning, sequencing, phylogenetic analysis), Scanning Electron Microscopy, maintaining bibliographic databases, student training. Potential for fieldwork on the California coast.

Questions regarding the exact duties and responsibilities may be addressed to: bdayrat@ucmerced.edu. Additional information about the School of Natural Sciences and the University of California at Merced can be found at <http://www.ucmerced.edu>. Conditions: The position is available immediately and for a full year. The salary is calculated based on the UC payscale for a Lab Assistant II, step 1 (\$26,784 annually \$2,232 monthly), but is negotiable based on experience. The position includes UC benefits. The position is available for a year. The University of California at Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students.

Education: B.S or M.S. in Biology. Previous research experience in molecular systematics is required.

Application instructions: Applicants should submit a cover letter, curriculum vitae or resume, and a list of three or more references including tele-

phone numbers and email address to: Benoit Dayrat, bdayrat@ucmerced.edu. Applicants can view the job announcement and apply directly online at:

<http://jobs.ucmerced.edu/n/staff/-position.jsf?positionId=601>

Deadline: Until a suitable candidate is identified.

Dr. Benoit Dayrat Assistant Professor School of Natural Sciences University of California, Merced P.O. Box 2039 Merced CA 95344

bdayrat@ucmerced.edu

UGlasgow EvolBiol

NEW ACADEMIC POSITIONS IN EVOLUTIONARY BIOLOGY/ ECOLOGY/ BEHAVIOUR AT GLASGOW

Further to recent appointments, Glasgow University is seeking to recruit 6 further permanent members of academic staff at any level from Lecturer to Professor. These will be in any biological/biomedical field that complements and extends our existing research interests; the Division of Environmental & Evolutionary Biology is especially keen to encourage applicants in evolutionary biology, ecology and behaviour. Please see <http://www.gla.ac.uk/ibls> for further details, or contact the Head of Division, Prof Neil Metcalfe (n.metcalfe@bio.gla.ac.uk) for specific queries. CLOSING DATE: 8th September 2006

These jobs are open to any area and will be considered at all levels (from Lecturer through Professor), depending on the experience of the candidates. – Dr. Barbara Mable NERC Advanced Research Fellow Division of Environmental and Evolutionary Biology Rm 404 Graham Kerr Building University of Glasgow Glasgow, Scotland G12 8QQ email: b.mable@bio.gla.ac.uk Phone: +44 (0)141 330 3532 Mobile: +44(0)7910 833 819 Fax: +44 (0)141 330 5971

b.mable@bio.gla.ac.uk b.mable@bio.gla.ac.uk

UIdaho 2 EvolBiol

Evolutionary Biology

The Department of Biological Sciences at the University of Idaho invites qualified individuals to apply for two tenure-track positions in evolutionary biology available for Fall 2007. Preference will be given to individuals at the assistant professor rank. Topics of interest include spatially structured processes of evolution, protein evolution, or genome evolution. This includes areas such as adaptive evolution, population divergence and speciation, applied evolution, and functional organization of genomes. The applicant will have the opportunity to conduct interdisciplinary research with other faculty that participate in the Initiative for Bioinformatics and Evolutionary Studies (IBEST <http://www.ibest.uidaho.edu/ibest>). IBEST is a group of faculty and students from the biological, computational and mathematical sciences that is fully engaged in interdisciplinary research in a supportive and collaborative environment. The department also enjoys strong interactions with biological faculty at nearby Washington State University. The successful candidate will contribute to undergraduate teaching and will teach graduate students in their area of specialization. A Ph.D. in Biology or related field, strong record of scientific publication, and a clear plan for establishing an independent research program are required. Postdoctoral experience, teaching experience, and evidence of success in obtaining extramural funding are desired. For more information and to apply online, visit: <http://www.hr.uidaho.edu>. Send inquiries to biofac@uidaho.edu. Review of applications will begin on September 5, 2006; those received by that date will receive priority.

The University of Idaho is an affirmative action equal opportunity employer.

hwichman@uidaho.edu hwichman@uidaho.edu

UIllinois EcologicalGenomics

The School of Integrative Biology and the Department of Plant Biology seek an outstanding early career scientist with a background in interdisciplinary research involving aspects of plant ecology, ecosystem biology, plant environmental physiology, genomics, and statistics and/or bioinformatics for a nine-month, tenure-track faculty position at the assistant professor level. Candidates must have a Ph.D. The ideal candidate will have extensive familiarity with plant ecology, the ability to develop and implement statistical protocols for complex data analysis, and experience with appropri-

ate genomic and informatic tools to address ecosystem level issues. This new faculty member is expected to develop an externally funded research program to investigate environmentally sensitive genes and processes that shape ecological interactions. The School has a particular interest in interactive responses of plants to abiotic stresses with anthropogenic changes and has world-class facilities for research in this area.

The successful candidate will have the opportunity to be part of a dynamic and well-established life science faculty, as well as a broadly based genomics community forming around the Institute for Genomic Biology, housed in a new state-of-the-art facility. Teaching obligations include participation in appropriate graduate and undergraduate instruction, including introductory level biology as well as upper level offerings in ecological genomics and related topics. The proposed starting date is January 2007, or negotiable after closing date; salary is commensurate with experience.

To ensure full consideration, applicants must submit a CV and statements of research and teaching interests and arrange for three letters of reference to be sent no later than September 15, 2006. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after the closing date. Please send materials to the Ecological Genomics Search Committee, School of Integrative Biology, University of Illinois, 286 Morrill Hall, 505 South Goodwin Ave., Urbana, IL 61801 (phone: 217/ 333-3044; fax: 217/ 244-1224; email: sib@life.uiuc.edu). The University of Illinois is an Affirmative Action, Equal Opportunity Employer.

kahughes@life.uiuc.edu kahughes@life.uiuc.edu

UManchester ResearchTech QuantGenet

A research technician position is available for up to 18 months to assist with studies of the quantitative genetics of condition dependent traits. There will also be opportunities to contribute to other ongoing research projects in evolutionary quantitative genetics.

The closing date for applications is the 1st of September 2006. The projected start date is flexible, but preferred to be before 1st October 2006. For further details of the position please contact Jason Wolf (jason@evolutionarygenetics.org). Application Forms and

Further Particulars are available from the university website or from Mr. Gary Porteous, Tel: +44(0)161 275 3909, gary.porteous@manchester.ac.uk. Please quote Ref. LS/120/06 in all correspondence with Mr. Porteous.

jason@EvolutionaryGenetics.org

UMontreal Statistical Genetics Epidemiology

The University of Montreal and Sainte-Justine Hospital Research Center seek applications for a Canada Research Chair in Statistical Genetics and Epidemiology (Tier II, university appointment at the assistant professor level). Candidates must have strong academic background in statistics and/or computer science, a PhD degree plus 2-4 years of postdoctoral experience in the field of statistical genetics and/or epidemiology, an interest in medical and human population genetics, as well as knowledge of contemporary genomic research tools. The successful applicant will develop his/her own competitive research program and also collaborate with existing research groups utilizing genetic methodologies. Post-graduate teaching will be encouraged.

Applicants whose research interests overlap and complement with existing areas of research strength at our institution will be given preferential consideration. Our Research Center and the nearby university campus offer a congenial medical and fundamental research environment complemented by a rich academic milieu of Montreal and collaborating groups in Quebec province. The population of Quebec with its unique history and extensive genealogical records offers excellent research opportunities in population genetics and genetic epidemiology. French language skills are not required upon hiring, but should be developed during the first three years. International applicants are welcome.

Applications will be considered beginning September 1, 2006 until the position is filled. Applicants should send a current CV plus a statement of research interests, either by email or mail, and arrange to have three letters of recommendation sent to

Dr Damian Labuda Selection Committee Sainte-Justine Hospital Research Center 3175 Cote Sainte-Catherine Montreal, QC H3T 1C5 Canada

Damian.Labuda@UMontreal.ca copy to:
Dominika.Kozubska@Recherche-Ste-Justine.qc.ca

Damian Labuda <damian.labuda@umontreal.ca>

UMunich PopGenet

The Section of Evolutionary Biology (University of Munich) invites applications for the position of a Research Associate (experienced postdoc) in Population Genetics.

Research objectives include the detection of natural selection and the analysis of adaptation in the model system *Drosophila melanogaster*. The successful candidate should hold a Ph.D. degree in population genetics and have experience in a variety of techniques of molecular population genetics, genomics and/or quantitative genetics.

The position includes teaching and is initially for 3 years, with the option of an extension to 6 years.

The Evolutionary Biology Group is located in a new building equipped with state-of-the-art DNA sequencing and microarray facilities, and also a Linux cluster.

Requests for more information should be directed to Wolfgang Stephan (Stephan@zi.biologie.uni-muenchen.de). Applications (by email) should include a CV with publication list, research and teaching experience. Furthermore, 2-3 letters of reference should be sent.

For general information about the Munich evolutionary biology group, please consult our website at <http://www.zi.biologie.uni-muenchen.de/evol>

Wolfgang Stephan Biocenter University of Munich Grosshaderner Str. 2 82152 Planegg-Martinsried Germany Tel: +49 89 2180 74102 Fax: +49 89 2180 74104 <http://www.zi.biologie.uni-muenchen.de/evol> stephan@zi.biologie.uni-muenchen.de

UPoitiers 2 EvolEcol

Two permanent positions in EVOLUTIONARY ECOLOGY will be available at the University of Poitiers <<http://www.univ-poitiers.fr>> starting September 2007.

We seek to fill two permanent positions at the PRO-

FESSOR (senior researcher) and ASSISTANT PROFESSOR (junior researcher) level in Evolutionary Ecology in the joint research unit (UMR) GBPC (Population Biology and Genetics of Crustaceans, D. Bouchon) of the University of Poitiers (France).

The unit is composed of 11 permanent researchers, 5 PhD students and a technical staff of 7 technicians. From a 30 year-old experience on *Wolbachia*-isopod interactions, the unit collects, maintains and distributes an unique collection of terrestrial isopods genetically controlled (some of them harbouring different strains of *Wolbachia*). We are involved in the European consortium EUWOL(FP5 2000-2004) leading to the complete genome sequence of the feminizing *Wolbachia* of *Armadillidium vulgare* (wVulC) which is under annotation. We also coordinate the ENDOSYMBART project (ANR 2006-2009) from the National Research Agency, dealing with the study of symbiosis in arthropods. We also investigated the use of crustaceans (both terrestrial and aquatic) as indicators of biodiversity in environmental management. We coordinate the European thematic network CRAYNET <<http://labo.univ-poitiers.fr/craynet/>> managing, protecting and monitoring the European native crayfish populations.

The ideal candidates work in the field of evolutionary ecology. Interest in using arthropods as a model and experience in molecular techniques is advantageous. We expect willingness to collaborate with others in the group and to contribute to its teaching commitments.

Teaching responsibilities entail introductory courses for 1st year students and specialized courses in our graduate program in ecology and evolutionary biology. Introductory courses must be taught in French.

As French regulations require that the candidates need to register for a 'liste de qualification' from the National Council of Universities, the present application is set up in two stages: - Qualification: * the applications will be assessed by disciplinary committees at the national level from 11 September 2006 to 16 October 2006. Note that the relevant committee in the case of ecology and evolution is the so called CNU section 67 (Population Biology and Ecology). For further information and online application see <http://www.education.gouv.fr/personnel/enseignant_superieur/enseignant_chercheur/antares.htm> - Final procedure: * application to the University of Poitiers, February-March 2007 * interviews during Spring 2007

Further enquiries about the position may be made to:

Pr. Didier Bouchon Université de Poitiers Génétique et Biologie des Populations de Crustacés, UMR

CNRS 6556 40 avenue du Recteur Pineau F-86022
POITIERS Cedex tel : +33 (0)5 49 45 38 95 fax : +33
(0)5 49 45 40 15 <http://labo.univ-poitiers.fr/umr6556>
mailto:didier.bouchon@univ-poitiers.fr

– Pr. D. Bouchon

Universite de Poitiers Genetique et Biologie des
Populations de Crustaces, UMR CNRS 655 40
avenue du Recteur Pineau F-86022 POITIERS
Cedex tel : +33 (0)5 49 45 38 95 fax : +33 (0)5
49 45 40 15 <http://labo.univ-poitiers.fr/umr6556>
mailto:didier.bouchon@univ-poitiers.fr

UTennessee EvolBiol

The Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville, announces a tenure-track position in theoretical evolutionary biology at the ASSISTANT PROFESSOR level, to start August 1, 2007. We seek a creative colleague who has an innovative research program utilizing modern analytical and/or computational approaches to address major questions in evolutionary biology. The ability and interest in collaborating with empiricists is a plus. A commitment to excellence in undergraduate and graduate teaching is also expected. The Department has a strong theory group and offers an exciting environment for collaborative research including that with colleagues from other departments and Oak Ridge National Laboratory.

The University welcomes and honors people of all races, genders, creeds, cultures, and sexual orientations, and values intellectual curiosity, pursuit of knowledge, and academic freedom and integrity. For information about the Department visit website: <http://eeb.bio.utk.edu> Candidates should apply to: Theory Search Committee, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN 37996. Applicants should send curriculum vitae, statements of research and teaching goals, up to five reprints, and arrange for three reference letters to be submitted. Electronic applications should be sent to Ms. Cheryl Lynn at e-mail: cjlynn@utk.edu. Applications will be reviewed beginning 15 September 2006.

The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA institution in the provi-

sion of its education and employment programs and services

Sergey Gavrilets Department of Ecology and Evolutionary Biology Department of Mathematics University of Tennessee Knoxville, TN 37996

phone: (865) 974-8136 fax: (865) 974-3067 e-mail: gavrila@tiem.utk.edu web: www.tiem.utk.edu/~gavrila

U British Columbia Marine Phycology

Dear Dr. Golding,

The University of British Columbia's Department of Botany is seeking to hire an assistant professor in marine phycology – Evolutionary biologists are strongly encouraged to apply. We are searching broadly for an outstanding scientist.

Brian S. Leander Assistant Professor Departments of Zoology and Botany University of British Columbia #3529-6270 University Blvd. Vancouver, BC V6T 1Z4 CANADA

Email: bleander@interchange.ubc.ca Tel: 604 822-2474 (office), 604 822-4892 (lab) Fax: 604 822-6089

Web: <http://www.botany.ubc.ca/bleander/home.html>
TENURE TRACK ASSISTANT PROFESSOR IN
MARINE PHYCOLOGY

The Department of Botany, University of British Columbia (www.botany.ubc.ca), seeks applications for a tenure track position in marine phycology. All areas of marine phycology will be considered, but preference will be given to candidates with a strong field-based component to their research and expertise in macroalgal marine biodiversity. The successful applicant will be expected to develop a strong research program and teach courses in phycology and other areas in the UBC Biology Program. Interests in teaching and research at the Bamfield Marine Sciences Centre (www.bms.bc.ca) are desirable, and the candidate will interact with the UBC Biodiversity Research Centre (). Salary will be commensurate with experience. Appointment will be at the assistant professor level and is subject to final budgetary approval.

Applicants should send a curriculum vitae, a summary

of research interests, a statement of teaching philosophy, reprints of key publications, and should arrange to have three letters of reference sent directly to the Department. Applications should be addressed to the Chair, Phycology Search, Department of Botany, University of British Columbia, 6270 University Boulevard, Vancouver, BC, Canada, V6T 1Z4. Electronic applications to phycolog@interchange.ubc.ca are preferred, but paper applications will be accepted. Application deadline is October 1, 2006.

The University of British Columbia hires on the basis of merit and is committed to employment equity. All qualified applicants are encouraged to apply; however, Canadian citizens and permanent residents of Canada will be given priority.

bleander@interchange.ubc.ca
bleander@interchange.ubc.ca

bleander@interchange.ubc.ca

VanderbiltU MicrobialEcolEvol

FACULTY POSITION - MICROBIAL ECOLOGY/EVOLUTION

The Department of Biological Sciences at Vanderbilt University seeks candidates to fill a tenure-track assistant professor faculty position to complement present faculty research in Ecology and Evolutionary Biology. Specifically, we seek a scientist who adopts rigorous experimental approaches to study natural or laboratory systems, especially one who studies microbial taxa, including prokaryotes, protists, or fungi. We particularly encourage applicants focusing on mutualistic or antagonistic coevolution, evolutionary differentiation, community structure, molecular evolution, or environmental genomics. The central criteria for this position are excellence in research and the ability to teach undergraduate and graduate students with a high level of effectiveness. For information about the Department, visit our website: "<http://sitemason.vanderbilt.edu/-biosci>". Applicants should send a letter of application together with a curriculum vitae, a statement of current and future research interests, three letters of recommendation, evidence of teaching effectiveness, and selected reprints to: Microbial Ecology/Evolution Search Committee, Department of Biological Sciences, Vanderbilt University, VU Station B 351634, 2301 Vanderbilt Place, Nashville, TN 37235-1634 U.S.A. Review of applicants will begin October 1, 2006, and will continue until the position has been filled. Vanderbilt Univer-

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

Daniel J. Funk daniel.j.funk@vanderbilt.edu

VanderbiltU ResAssist EcolSpeciation

RESEARCH ASSISTANT in EVOLUTIONARY ECOLOGY

Funk laboratory, Department of Biological Sciences, Vanderbilt University, Nashville, TN

A full-time research position is available in the laboratory of Dr. Daniel Funk to participate in an NSF-funded project on the topic of ecological speciation. This project involves greenhouse experiments on the behavioral and ecological causes of host shifts and reproductive isolation in host-plant-specific populations of leaf beetles. The successful candidate will play a major role in both the collection of data for these experiments and the care of insect and plant stocks. He or she will also participate in additional lab activities and projects.

The position is available immediately and applications will be evaluated upon receipt. Salary and benefits will be commensurate with experience. Duration of the position is negotiable, but will be partly contingent upon performance and the availability of funds.

To apply, please submit a brief letter of application, a CV or resume, and contact information for at least three references. Application materials may be sent by e-mail. Applicants should have a B.S. or M.S. and candidates with research experience especially with insects, plants, behavioral studies, or evolutionary ecological research generally are preferred.

The successful candidate will join a laboratory employing field, behavioral, evolutionary genetic, and comparative approaches to study the evolution of ecological specialization, speciation, and evolutionary diversification, especially in various insect study systems. Our laboratory is part of the Department of Biological Sciences at Vanderbilt, which resides in a new (2002) building with modern greenhouse and sequencing/genotyping facilities.

Additional information on the department (<http://sitemason.vanderbilt.edu/biosci>) and the Funk

lab (https://medschool.mc.vanderbilt.edu/biosci/bio_fac.php?id33) is available on the internet. For articles about a recent study from our lab see: <http://www.vanderbilt.edu/exploration/stories/>

speciation.html or <http://www.vanderbilt.edu/register/articles?id=24940>

For further information or questions, please send an e-mail to: daniel.j.funk@vanderbilt.edu.

Other

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ABIBigDye vs GEET-terminators

Dear Evoldir members,

I'm in the process of developing microsatellites.

I'm using ET-terminators on a Megabace 1000. Even though I'm using terminators at full strength, the sequences gets bad (even) after a short repetitive sequence. The inserted fragments vary around 500bp. From what I've heard, ABI BigDye 3.1 is supposed to work better on repetitive fragments.

I would appreciate your experience running BigDye on a Megabace. How much can I safely dilute the termi-

nator mix? What run parameters do you recommend?

Thanks, Peter Halvarsson PhD student, Uppsala University, Sweden

peha1887@student.uu.se

Alignment help

I was looking for an alignment program that allows

- good at aligning intronic regions - is capable of forcing alignments over a given window - has enough command line options to make it completely scriptable

The blast family ,water , all don't fit the bill..

Any help would be much appreciated.

William Fairbrother, PhD Office/lab (401) 863-6215
/6329 Fax: (401) 863-9653

William.Fairbrother@brown.edu

Allozyme reagent

Does anybody who still runs allozyme gel electrophoresis have A) a source for dl-isocitric acid (substrate for IDH reaction)? B) a reasonable substitute that will work instead? C) a protocol for synthesizing isocitrate from upstream product using aconitase?

We have used the dl-isocitric acid trisodium salt version of this substrate from Sigma, but seems now as if there is a world-wide shortage indefinitely.

Thanks, Charles Ross cross@nmsu.edu

Apidae samples

Hello,

Im a graduate student at University of Minnesota. Im interested in obtaining alcohol preserved specimens from the family Apidae, specially bumblebees, for genetic work.

If you have any specimens you can share, please let me know at grub0121@umn.edu

Thanks for your time!

Karl

Karl F. Gruber, M.S. University of Minnesota Ecology, Evolution & Behavior 100 Ecology Building 1987 Upper Buford Circle St. Paul, MN 55108 email: grub0121@tc.umn.edu www.karl.gruberpanama.com
Karl Gruber <grub0121@UMN.EDU>

BurrowingCameras NocturnalMorphology

Hi all,

I have two questions that I'm hoping someone can help with.

1. We are studying golden hamsters in the wild (southern Turkey), and want to get a camera down into burrows to record activity. The burrow entrances are ~4.5 cm in diameter, and tunnels can be up to 200 cm in length (sometimes longer), with a sharp turn into the nest chamber. Therefore, we need something small, works in low (no) light, and is maneuverable (i.e. can turn corners).

Does something like this exist? Any information would be most appreciated.

2. Are there any published data on typical eye:ear, eye:skull and/or ear:skull size ratios for nocturnal vs diurnal rodents? (or any other taxa, for that matter...). Quick google and web of science searches yielded nothing that directly addresses this question.

Thanks for your help. Feel free to answer me directly, and if folks are interested, I'll post a summary of responses.

Misty

M. Elsbeth (Misty) McPhee Cornell University 223 Uris Hall Ithaca, NY 14853 w: 607-254-6491 h: 607-257-2301

mem247@cornell.edu

<http://csci.mrs.umn.edu/twiki/view/Main/-MElsbethMcPhee>

Capillary Electrophoresis Fluorescent SSCP

Dear EvolDir users,

Have anyone of you tried to genotype samples using fluorescent SSCP (Single Strand Conformation Polymorphism) markers with the help of a Beckman Coulter automatic sequencer (e.g. CEQ 2000XL or 8000)? I

know there are protocols for this technique (that's what they call Capillary Electrophoresis SSCP or CE-SSCP) to be used with ABI sequencers, but I didn't find papers or protocols for Beckman machines. Does anyone have any informations?

Thanks a lot Davide Perini Universita' degli Studi di Milano, Milano, Italy davide.perini@unimi.it

davide.perini@unimi.it

Commercial clonelibrary and sequencing

Need recommendation of a good company for screening clone library and sequencing services Hi,everyone, Sorry to bother others, i need some help with finding a very good company in USA or other countries that provides good quality and reasonable price for screening clone library and sequencing services. i'd very appreciated any informations from you. BTW: We are having quite a lot of sequences need to be done before the end of this year. We have already the PCR product and I will construct DNA cloning libraries for a group of pico sized (2-3 um) eukaryotes living in the ocean. We need to screening about 8 cloning libraries and 1600 no of positive clones (200/each library) and seqeneceing about 1000 samples in total. Thank you very much!

Hui Liu

liu@marine.rutgers.edu

Committee EvolEducation

Forwarded to the EvolDir.

Brian

Dear SSB Members,

Below is a note from the Joint Council Committee on Evolution Education. Please note that we are not sending you the discussed attachment, but have included it as well as relevant links on our Society Homepage at <http://systematicbiology.org> We encourage you to get involved in your local communities to promote evolu-

tionary science and education.

Sincerely,

Keith Crandall

Executive Vice President, Society of Systematic Biologists

Dear Members of the ASN, SSB, and SSE,

The Joint Council of the three evolution societies has recently appointed the three of us to a standing committee to deal with the ever-present threat of creationism and intelligent design to the teaching and funding of evolutionary biology in the US.

The goals of the committee are spelled out in the attached documents, and this message is to let the membership know of the existence of the committee, as well as to ask for suggestions and help from the membership.

The committee will work together with the education section of SSE, which has already been active in this area for several years, as well as with the premier organization promoting education about evolution and creationism, the National Center for Science Education.

As a first action item, we would like the members of the three societies to be aware of an imminent threat in the states of Texas and Kansas (see, for example, <http://biz.yahoo.com/prnews/060707/-sff022.html?.v=56>). We encourage everyone to get involved and fully participate in their local and state school deliberations over these issues. Local members could contact the National Center for Science Education (<http://www.ncseweb.org/default.asp>) and let them know that they can call upon members in case of hearings or other public appearances related to the two cases. Also, individual members wishing to get involved and/or make financial donations can obtain more information from Texas Citizens for Science (<http://www.texscience.org/>) and/or the Kansas Alliance for Education (<http://www.ksalliance.org/>).

Sincerely,

Massimo Pigliucci (Stony Brook U.)

David Baum (U-Wisconsin)

Mark McPeck (Dartmouth)

SSB <SSBMembership@BurkInc.com>

Continuous PAUP data

while exploring how to use some continuous data for systematics I have found some trouble. Following PAUP user manual you can use 16, 32, or up to 64 character states for a character in your matrix (if you are using a 16, 32, or 64 bits machine computer respectively)... but when you have a matrix with with polymorphisms (i.e.: 1/2) how can you make PAUP undersands it as a different state than the state No. 12 for example?....

if you are using brackets in your matrix your polymorphism should be (12) and your twelve state should be the same (12) or if you are using codes in your matrix they will also converge: $x = 1/2$ and $b = 12$, the program will say that x and b are the same (12).

any feedback on this?..... maybe is it better avoiding this and using those methods (i.e.: Thiele gap-weighting) to convert all continuous data?

thank you very much... cheers, Diego.

– DIEGO CALDERON FRANCO Instituto de Biología - Universidad de Antioquia Sociedad Antioqueña de Ornitología

Direccion / Postal Address:

Gareth Dyke [for Diego Calderon] University College Dublin Science Research Centre West (Zoology) Belfield Dublin 4 Ireland

“Diego Calderon-F.” <manakin00@hotmail.com>

Cottus gobio SexMarker

Dear,

I would like to inform whether sex-specific markers are available for the bullhead (*Cottus gobio*), a small bottom-dwelling freshwater fish species?

Kind regards, Guy

Dr. Guy Knaepkens University of Antwerp Department of Biology Campus Drie Eiken Universiteitsplein 1 2610 Wilrijk Belgium Tel.: 0032 3 820 22 86 Fax: 0032 3 820 22 71 E-mail: guy.knaepkens@ua.ac.be

Creationist documentary

In the interest of knowing what might be coming down the pipes...

A documentary is being distributed by Coral Ridge Ministries that showcases personalities and “experts” who link evolutionary biology to Hitler and the Columbine shootings.

For a link and for more on this topic, visit:

<http://www.umich.edu/~gharp/blog/2006/08/why-christian-right-has-equal-market.html#links>

cheers

Gabriel Harp www.gabrielharp.com Master of Fine Arts '07 gharp@umich.edu School of Art & Design Graduate Student Instructor Department of Screen Arts & Cultures University of Michigan, Ann Arbor

Gabriel Harp <gharp@umich.edu>

DNA from frog toes

Hello,

I am using DNeasy extraction tissue and blood kit from Qiagen to extract DNA from frog toes tissue.

So far the amount of DNA I was able to get was very low. I wonder if I should do any cleaning/purification of the extraction product.

I am new on this... Is there anyone that could help me?

Thanks, Catarina

Catarina N. Moreira Graduate Student

Department of Biology Western Kentucky University 1906 College Heights Blvd. #11080 Bowling Green, KY 42101-1080 USA

Email: catarina.moreira@wku.edu

Departamento de Biologia Animal Faculdade de Ciências, Universidade de Lisboa Campo Grande, Edif. C2 1749-016 Lisboa, Portugal

Email: cnmoreira@fc.ul.pt

URL: <http://www.flickr.com/photos/minhoquita>
 Catarina Moreira <catinm@netcabo.pt>

Darwin Bobblehead

Help support Darwin Day at SIU Carbondale – Buy the one and only original Charles Darwin Bobblehead!

All profits go to support Darwin Day events at SIUC.

Only \$17 US plus shipping!

These little Darwins come complete with Darwin's birth and death dates inscribed on the base (you'll never forget Darwin Day again!). They are 7.5 inches tall and weigh just short of one pound – they have a feel of solidity and quality.

Every Darwin fan and every biology lab needs one of these – what better way to assure the success of your experiments (and thought processes) than to have Charles Darwin overseeing everything?

For photos and ordering information, please go to: www.science.siu.edu/zoology/darwin/ . “Richard H. Thomas” <rthomas@zoology.siu.edu> “Richard H. Thomas” <rthomas@zoology.siu.edu>

Duplexing ABI sequences

We are experiencing a bizarre phenomenon on some sequences generated by our ABI377. We are getting sequences that appear to be duplexes of themselves. We are amplifying a 400bp fragment of mtDNA control region and recover clean, single bands. One of our sequencing primers gives us a good clean 400bp sequence. The other gives us an ~800bp sequence: a good clean 400bp sequence that is followed by a semiclean to messy reverse compliment of the first 400bp.

Other sequences run on the sequencer are fine and have no problems. It's only the one direction of this fragment that has an issue. Given that we experience this phenomenon in only one sequencing direction and that the PCR products are completely clean with only a single band, it is clear that this must be a sequencing artifact of some sort. However the PCR and sequencing stocks that we are using are the same, and we have

routinely sequenced this gene region from these species for the past several weeks without issue. I'm stumped as to what might be the cause or the solution to this problem.

I have called ABI tech support and they were completely unhelpful, as expected.

Has anyone out there ever experienced anything similar?

Cheers, Paul

Dr. Paul H. Barber Boston University Boston University Marine Program 7 MBL Street Woods Hole, MA 02543 (508)289-7685 phone (508)289-7950 FAX pbarber@bu.edu <http://people.bu.edu/pbarber/> pbarber@bu.edu

ESTIM 1 0

Does anyone know the current whereabouts of Estim 1.0, a program described in this paper: Vitalis, R., and D. Couvet. 2001. ESTIM 1.0: a computer program to infer population parameters from one- and two-locus identity probabilities. *Molec. Ecol. Notes* 1:354-356.

The download site given in the paper is no longer functional and Vitalis is also proving hard to find.

(A passing point - shouldn't journals maintain access to programs they publish program notes for? Presumably their sites are more long-lived than most. Just like on-line supporting material).

Thanks, Mike

Reply to:

mgr@st-and.ac.uk

Mike Ritchie Phone 0 (44 outside UK) 1334 463495 Environmental & Evolutionary Biology Fax 0 (44 outside UK) 1334 463366 Dyers Brae House University of St Andrews E-mail mgr@st-andrews.ac.uk St Andrews, Fife Scotland KY16 9TH

Website: <http://biology.st-and.ac.uk/staff/ritchie.html>
 Research website via: <http://tiree.st-and.ac.uk/cegg/-research.html> mgr@st-andrews.ac.uk

EtOHpreservation pHBuffering answers

In reply to the query: _____ Does anyone use buffered 70% - 90% ethanol for the preservation of specimens for DNA-based work and, if so, with what recipe, rationale and results? _____

I received several replies (not listed) from readers who thought that buffering ethanol would be a sensible and logical procedure but who had no actual experience to contribute. There were two replies from people who do buffer their ethanol, as follows:

1. From: "Joe Staton" <JStaton@gwm.sc.edu>

We used to add about 0.1 ml of 1/10x TE (pH 8.0) to help with this. I think Tim Collins taught me this. As I understand it, many invertebrates release acids when preserved which leads to DNA destruction. Others I know change out the EtOH after 3 days to help with the same problem.

and 2. From: "Blair Hedges" <sbh1@psu.edu>

I usually buffer my 70-80% ethanol for specimen/DNA preservation (of reptiles and amphibians) with TE (Tris EDTA) pH 8.0. I buy 100X concentrate from Sigma and bring the concentration up to 1X TE, although for large volumes (liters) it may be a weaker TE concentration. My reason for doing so is not so much for pH but simply as a proven DNA buffer. Also, I use 151 proof rum (75% ethanol) instead of laboratory grade ethanol because the latter sometimes includes a touch of methanol which could harm DNA. I work in the West Indies so the rum is easy to get.

My conclusion is that buffering the ethanol is a sensible precaution that may be particularly valuable for calcite-shelled animals and I intend in future to dilute ethanol with 1 x TE rather than water.

To Blair Hedges' reasons for using rum I will mention my experience of methanol-denatured ethanol. This is the standard shipboard fixative for the brachiopods I receive from the IRD/ORSTOM Pacific sampling campaigns, and brachiopods preserved in this have yielded amplifiable DNA after a decade or so at -20. The only difficulty so far has been with some crinoids that contain quinone pigments. These (I assume) converted the 10% methanol to formaldehyde, the vapour of which

caught me unawares when repacking the specimens in an enclosed, hot environment..

Thank you all.

BLC

Dr B. L. Cohen Molecular Genetics University of Glasgow, Pontecorvo Building, 56 Dumbarton Rd Glasgow G11 6NU Scotland, UK.

Phone: (+44) (0)141 330 5103 (direct line) 330 6219 (secretary) 339 8855 (switchboard) Fax: 330 4878 <http://www.gla.ac.uk/ibls/molgen/staff/cohen-bl.html> "B.L.Cohen" <b.l.cohen@bio.gla.ac.uk>

Geneious API

To encourage the integration and sharing of open source applications for phylogenetics, sequence alignment, and evolutionary bioinformatics with the community, there is a now public API for Geneious. The public API allows any tools, new or existing, to use Geneious (which is free for academic use) as an organization and visualization front-end. The benefit of this is that a number of tools can be accessed from the same framework, and run across any operating system. It also means as a developer that you don't have to write the GUI yourself.

You can see the Geneious API by going to www.geneious.com, or by clicking directly on this link <http://www.geneious.com/assets/developer/geneious-api-2.0.zip>

To develop code that uses the public API, you will need to download Geneious 2.0.1, which is also freely available from the website and has some new features including improvements to local sequence similarity search

Any feedback on the API or Geneious is welcome

daniel@biomatters.com

MicroDist for Polyploids

Dear all,

Here's a question about the method Bruvo et al. (2004) described regarding: "calculating microsatellite genotype distances irrespective of ploidy level".

I was wondering whether someone has automatized this method.

Best regards and thanks in advance,

Philippe Helsen.

Philippe Helsen University of Antwerp - Campus Groenenborger Dept. of Biology - Evolutionary Biology Group Groenenborgerlaan 171 B-2020 Antwerp Belgium

philippe.helsen@ua.ac.be

phone: xx-32-3-265.34.70 fax: xx-32-3-265.34.74

Morphometric software

Hello Evoldir,

I'm looking for free software for a PC that can take a digital photograph of a butterfly wing, allow me to select different points on the wing, as well as a calibrated length, then will calculate the distance among the points as I choose. Hopefully this would be saved in some sort of tab delimited format.

I've found several programs on the web that allow me to calibrate a length and perform a distance measure, but on a line by line basis. What I really want is to be able to put 4 points on an image, calibrate the length on the image, and have the program give me back distances among the points, and perhaps even area among the points. I have many wing photos to go through.

Thanks for any suggestions/help

Chris

Chris Wheat

Postdoctoral Researcher

Pennsylvania State University University of Helsinki University of Miami

<http://www.helsinki.fi/science/metapop/english/-People/Chris.htm> Christopher West Wheat
<cww10@psu.edu>

PAML dNds

Dear EvoDir members,

I work on complete genome of two species with 70% of homology in amino acid. Some people say that I'm at the limit to use PAML and that I may have substitution saturation. I work with the 3.15 PAML version (novembre 2005). I first run a pairwise analysis runmode = -2 (because I run 2 aligned sequences at once). I run about six thousand pair of aligned sequences (but one pair at once). Unfortunately, I found a very high dS value (>50) for the main part of my sequences. So, the results have no real meaning. I try with runmode = 2 (automatic analysis) to test different model of evolution (NSsites). I run PAML with NSsites = 2 (selection model, M2a). I obtained some results but I don't understand what they represent. For example I obtained at the end of the main output file :

```
"stage 0: (1, 2); lnL(ntime: 2 np: 7): -1079.894991
3..1 3..2 19.54493 19.55404 7.33163 -0.20254 -1.62772
0.00344 37.70754"
```

Is some one able to tell me what represent the different values ? Could you help me to understand the PAML results ? Maybe I use the bad parameters ?
Best regards

Severine Jancek

S everine <jancek.severine@wanadoo.fr>

Phylogenetic Visualization

The National Evolutionary Synthesis Center is sponsoring the development of ArcGIS tools to visualize and analyze population genetic, phylogeographic and historical biogeographical data.

To stimulate the collection of spatial phylogenies to test system development I am offering a free 3D-visualizations and data files in exchange for phylogenies and the spatial coordinates of the sample locations.

For further details please see: <http://www.duke.edu/~dmkidd/> ***I am particularly looking for phylogenies of European and Mesoamerican taxa.***

dk@nescent.org

Plotting morph characters

Dear Evoldir members,

I am a PhD student working on African Annonaceae phylogeny.

I would like to plot morphological characters on a GENERIC level molecular phylogeny using Bayesian methods. I have 2-3 species per genus. My main focus is at the generic level and I am looking at characters that are constant in the genus. However, sometimes one species out of them all presents an alternative state...

So my question is the following: How does one deal with polymorphic states if the unique species presenting the alternative "rare" state was not sampled (for whatever reason)?

I give a quick example to illustrate the question: 1 genus with 15 species. 3 species have been sampled. Character A has two states '0' and '1'. 14 species have state '0' (including the 3 species in my phylogeny), and one species has state '1'. If this later species is not sampled how do I deal with this alternative state in my phylogeny?

For me there are three alternatives: - Leave one species in representing the genus and code this character as "uncertain" or '0/1': in this case I would be giving too much importance to this unique alternative state, no?
- Leave the three species in and code them accordingly (so in the example code them as 0) and say that the alternative state (1) is exceptional: in this case I would be ignoring an alternative state present in the genus....
- Do not plot this character as I do not have the appropriate sampling.

Any comments, reference to publications dealing with the same problem, alternative methods for analysing the data, etc would be very much appreciated,

Best regards,

Thomas Couvreur

PhD student, Wageningen University

Thomas.Couvreur@wur.nl

Primate YChromosome STRs

Dear Friends,

I am planning to use Promega Powerplex Y System in case of Macaques. I would like to know if anyone has used it for the same purpose and if yes, then also about its performance. Please let me know if any published material is available online. I also welcome any other suggestion concerning the project.

Thanks in advance.

Deb

- Debapriyo Chakraborty Laboratory III

Debapriyo Chakraborty <debapriyo@ncbs.res.in>

RT PCR thermocycler

Dear EvolDir members,

our Dept. is planning to purchase a real-time PCR thermocycler and I would like to ask you if you have any suggestions in brands. I have been through brochures of a few companies and apparently all look good but before going for a Roche, Eppendorf, Applied Biosystem or any other, I really appreciate to have a feed back from a colleague who is happy with has got.

Thanks to everyone.

Kind regards, Sergio

Sergio Stefanni, PhD Dept. of Oceanography and Fisheries (DOP) IMAR-University of the Azores PT-9901-862 Horta - Azores - Portugal work: +351.292 200 430 Fax: +351.292 200 411 mobile: +351.964 538 185 email: sstefanni@notes.horta.uac.pt

sstefanni@yahoo.co.uk

SMARTGrant EvolMajor

Further to the NY Times article linked on the EvolDir website:

Brian _____

Please see this, just out on the US Dept. of Education website:

Statement from Chief of Staff David Dunn on Eligible AC/SMART Grant Majors

<http://www.ed.gov/news/pressreleases/2006/08/-08242006a.html>

Mark Courtney

Mark W. Courtney Phone: 703-292-7187 Program Director FAX: 703-292-9064 Population and Evolutionary Processes Email: mcourtne@nsf.gov Division of Environmental Biology Web: <http://www.nsf.gov> National Science Foundation 4201 Wilson Blvd. Arlington, VA 22230

“Courtney, Mark W.” <mcourtne@nsf.gov>

SMARTGrants miss EvolBiol

US Department of Education 'overlooks' evolution

* 12:28 24 August 2006 * NewScientist.com news service * Celeste Bieber

<<http://www.newscientist.com/data/images/ns/cms/dn9832/dn9832-1-817.jpg>> Why has Evolutionary Biology disappeared from the Department of Education's list?

Evolutionary biology is mysteriously missing from the list of undergraduate subjects eligible for a US federal grant.

The department of education claims the omission is simply a mistake and insists that US students taking evolutionary biology majors are eligible for the grants. However, the incident has left pro-evolution campaigners wondering whether evolutionary biology was deliberately eliminated from the list by people who find Darwinian evolution impossible to reconcile with their own religious beliefs.

“I have reason to believe there is a serious problem here,” physicist Lawrence Krauss of Case Western Reserve University in Cleveland, Ohio, told New Scientist.

Krauss wrote a story in the New York Times <<http://select.nytimes.com/gst/abstract.html?res=0A15FA3C5A0C768DDDA10>

894DE404482> on 15 August warning of the dangers that anti-evolutionist school board members pose to science education. The day after his story was published, a “Washington DC source”, who Krauss declined to name, alerted him to the department of education's omission.

Krauss emailed the US Department of Education (DoE) the next day and alerted The Chronicle of Higher Education, which brought the incident to public attention <<http://chronicle.com/temp/reprint.php?id=-v6pywllczrz22q3ybkb4b94qrx35ckr7>> on 22 August.

Peculiar omission

The grants in question are known as National Science and Mathematics Access to Retain Talent or SMART grants and are available to undergraduates at US universities studying mathematics, science technology, engineering and “critical” foreign languages. The DoE is offering them for the first time this year in order to encourage students “to pursue college majors in high demand in the global economy”.

A pdf document on the DoE's website <<http://www.ifap.ed.gov/dpceletters/attachments/-GEN0606A.pdf>> lists the hundreds of eligible majors, which include a variety of subjects from Artificial Intelligence and Robotics to Conservation Biology to Organic Chemistry. But, as this article is published, evolutionary biology is conspicuously absent.

The nature of the omission is peculiar. Each subject is designated by a number and the list is arranged in numerical order. Yet there is a conspicuous white space flanked by the numbers 26.1302 and 26.1304, at the point where you would expect evolutionary biology, which is number 26.1303, to go (see graphic, right).

“On its own, it's not really a smoking gun,” says Glenn Branch of the National Center for Science Education in Berkeley, California. “But in the context of actions that other people in the federal government have taken, it is suspicious.”

Branch is referring to claims in February 2006 that a NASA public relations officer muzzled climate scientists <<http://www.newscientist.com/channel/-opinion/mg18925403.900>> who did not conform to the Bush administration's view.

No explanation

The DoE says the omission is a mistake that it will correct but offers no explanation for why it occurred. “Evolutionary biology is one of a number of majors under the “Ecology, Evolution, Systematics and Population Biology” category of majors eligible to receive SMART grants,” says spokesperson Katherine McLane

in a public statement.

“There is no explanation for it being left off of the list - it has always been an eligible major. The department is making the necessary correction which will be in place before final guidance on AC/SMART grants is issued.”

Two other subjects - Heating Ventilation and Air Conditioning Technology and Exercise Physiology - are also missing from the list. If the omissions were deliberate, it is unclear why these would also have been left out. Unlike evolutionary biology, these subjects are not typically offensive to anti-evolutionists, says Branch.

chippind@biology.queensu.ca
pind@biology.queensu.ca

chip-

SequencingPlate warping

I can't insert the sharktooth comb (49 teeth) into the acrylamide gel when I unknowingly use warped glass plates: I can push the comb in at the edges (near the spacers), but not in the center. Further, I use bromophenol blue with my 6% acrylamide-urea-formamide-0.5XTBE gel: the gel near the spacers are dark blue, whereas the center of the gel (lanes ca. 15 to 30) is nearly white. How can I stop the glass plates from warping? Please respond to mouse@lamar.colostate.edu. Thanks, Ann aka AEM Baker

Ann Eileen Miller Baker
<mouse@lamar.ColoState.EDU>

SexSpecific Markers Cottidae

Dear,

I would like to inform whether sex-specific markers are available for the bullhead (*Cottus gobio*), a small bottom-dwelling freshwater fish species (or other Cottidae)?

Kind regards, Guy

Dr. Guy Knaepkens University of Antwerp Department of Biology Campus Drie Eiken Universiteitsplein 1 2610 Wilrijk Belgium Tel.: 0032 3 820 22 86 Fax: 0032 3 820 22 71 E-mail: guy.knaepkens@ua.ac.be

Knaepkens Guy <Guy.Knaepkens@ua.ac.be>

Software MrMTgui

Dear Evoldir

I am releasing version 1.0 of MrMTgui, an open source cross-platform interface for both ModelTest and MrModelTest. This is a evolutionary step from the last version 1.6 of MTgui with the inclusion of MrModelTest to the interface. That's why I am calling this version 1.0.

I am making it available at

<http://www.genedrift.org>

a precompiled package for Windows and the source code that can be built on Linux (or even Windows, although no support for it is available). The Linux source code is a kedvelop project that can be configured and made with ease, requiring wxWidgets to be installed. There is no help available for the Linux version at the moment and I am also planning to include a couple of pre-built executables for major distros in the near future.

The source code can be checked-out with svn using:

svn co svn://svn.geekisp.com/genesoft/mtgui <desired path>

or at

<http://trac.geekisp.com/genesoft/browser> Any comments or problems, please let me know. I would like to than Johan Nylander who allowed the inclusion of MrModelTest in the interface.

Paulo Nuin

nuin@terra.com.br

Software MrMTgui rerelease

Dear Evoldir

I am re-releasing MrMTgui. Thanks to Frank Vandebussche, I spotted a critical error on the installation package that had a file missing which prevented the executable to run.

I have repackaged the executable and uploaded a cor-

rected version to the website. You can download it directly from:

<http://www.genedrft.org/files/mrmtgui.zip> Please uninstall the package that contains the error. This new package is set to install on a different location, so hopefully there will be no conflicts.

Sorry for any inconvenience caused by this mistake. MrMTgui is open source and the new installation package contains the source code (still poorly commented) that is located in the installation directory.

I would appreciate any feedback from users that had the same problem running this version. I have limited access to Windows machines (and testers) and the interface, although being a relatively short program, relies on several idiosyncrasies of the operating system that might be different from machine to machine.

Sorry again for any inconvenience.

Paulo Nuin

Paulo Nuin <nuin@terra.com.br>

Taxonomic Content Management Systems

Dear all,

My colleagues and I at the Natural History Museum, London are interested in reviewing the functionality of various web based "taxonomic content management systems" that are being used for holding and editing integrated information about taxa (e.g. specimen, DNA, image, taxon name, etc). Specifically, we are interested in those that have some kind of web interface for presenting and (preferably) editing these data. We know of some examples of such systems (e.g. Orthoptera Species File, <http://osf2x.orthoptera.org/>; Specify, <http://www.specifysoftware.org/> etc). Indeed, some are in development at the museum. However, we are quite sure that are many not on our list. If you are involved in developing or using such a system I would appreciate a brief message about it, along with a web link to the database. Please reply to me off list, and if there is sufficient interest I'll consolidate the results and post them back to everybody.

Thanks for your time and apologies for cross postings,
Vince Smith

Dr. Vincent S. Smith Cybertaxonomist The Natural

History Museum Cromwell Road, London, SW7 5BD, UK

Tel: +44 (0) 207 942 5127 Fax: +44 (0) 207 942 5661 E-mail: v.smith@nhm.ac.uk Web: <http://darwin.zoology.gla.ac.uk/~vsmith/> (THIS WILL CHANGE SOON) iChat Video Conferencing: vsmithuk@mac.com (invitation only) Skype: [vsmithuk](https://www.skype.com/user/vsmithuk); or SkypeIn London: +44 (0)207 558 8950

vsmithuk@yahoo.co.uk

Testing phylogenetic assumptions

Dear All,

Most phylogenetic methods assume that the alignment of nucleotides evolved under stationary, reversible and homogeneous conditions. If these assumptions are violated by the data, the risk of errors in phylogenetic estimates is increased. To determine whether the sequences data evolved under stationary, reversible and homogeneous conditions has, hitherto, been a bit of a problem.

SeqVis and SymTest are programs developed to detect whether alignments of nucleotides violate the assumption of evolution under stationary, reversible and homogeneous conditions (which would be the case if the sequences were compositionally heterogeneous). The principles behind the methods are described in:

Bioinformatics 22, 1225-1231 [2006] Bioinformatics 22, 2162-2163 [2006]

whereas the programs are available from

<http://www.bio.usyd.edu.au/jermiin/programs.htm>

All the best,

Lars

Dr Lars Jermiin, Director SUBIT, Bldg K25 University of Sydney NSW 2006, Australia

+61-2-9036-3280 (phone) [lars.jermiin \[at\] usyd.edu.au](mailto:lars.jermiin[at]usyd.edu.au)

Travel with DNA

Hi,

A colleague will be traveling from Brazil to visit me and will be bringing some DNA samples. Does anyone have any experience with customs in this regard? I'm wondering if he'll need some letter from me or something like that to get the samples through customs.

Thanks,

Mike

Michael Blouin Dept. Zoology Oregon State University Tel: 541-737-2362 Fax: 541-737-0501 <http://oregonstate.edu/~blouinm/index.htm>

blouinm@science.oregonstate.edu

Travel with DNA answers

Sounds potentially complicated!

Here is my original question:

A colleague will be traveling from Brazil to visit me and will be bringing some DNA samples. Does anyone have any experience with customs in this regard? I'm wondering if he'll need some letter from me or something like that to get the samples through customs.

Thanks,

Mike

Here are the responses:

Hi Mike,

Every trip through customs can be different, but I suggest the following

- 1) have a copy of your permit from Brazil
- 2) have a letter from OSU saying who you are and what you are doing
- 3) have your university ID and business cards
- 4) Contact the US Fish and Wildlife law enforcement office at the airport where you will be clearing customs before you leave to explain who you are and when you will be returning with the samples
- 5) Fill out the USFWS form 3-777 and FAX or email it to the USFWS law enforcement office where you will be clearing customs
- 6) when you go through customs, show them your big stack of paperwork and tell them that USFWS is expecting you. USFWS will then meet you and clear your samples for import

If your stuff is CITES, it's slightly more involved.

Good luck

Paul

Hello Michael,

Your friend need permission from IBAMA (Intituto Brasileiro de Meio Ambiente) for bring this DNA for you. He need contact this Brazilian institution and compleed many formularies. If he dont make this, he and you will have big problems with federal police and Brazil government.

Alexandre Sebbenn

Institut für Forestgenetik Forstpflanzenzüchtung, Bundesforschungsanstalt für Forst- und Holzwirtschaft (BHF), Sieker Landstrasse 2, D-22927, Grosshansdorf, Germany.

Yes, borrowing specimens from a Brazilian museum was a big hassle, the biggest in completing my thesis. Borrowing 7 specimens required me to get the signature and "ID Number" of the vice-president of research for my university. I believe that this paperwork was a minimum for removing specimens from Brazil. It could be more difficult if DNA is involved.

If you wish, I can forward you blank copies of the paperwork that I completed.

Sincerely,

Hume Douglas

Carleton University

Ottawa Canada

Hi there,

I have traveled a couple of times with DNA samples, both into an out of the USA, Australia, Brazil and New Zealand. (Note this was pre 911).

When I have notified customs, I have declared it as "non-pathogenic, non-hazardous, non living biological material". The key is to not put any technical terms such as DNA etc... they will red flag it.

I have also posted the DNA to myself with the same label as above which has also been fine and less stress...

Hope this helps

JD

JD Swanson, Ph.D. Asst. Professor of Biology University of Central Arkansas

Hi Mike,

I've brought tissue samples back from Venezuela and Brazil before. The hard part is having permits to re-

move the tissues from Brazil, but the US customs people have never seemed to care. Depending on who he encounters, Customs, FDA, or Fish & Wildlife, they may request to see a letter or the permit from Brazil, but since the tissues are inert (preserved) there shouldn't technically be any problem. I've never carried any letters except from the country of origin, and I've never been asked for them. Just to save the hassle, however, I wouldn't recommend that he declare the tissues; why create a headache?

~Stu Willis

Hi Mike!

Be very careful with this. You will get lots of advice, but be warned that it depends not only on the taxon but also on the airport point of entry.

I've never had problems with frog samples by coming in through Miami or even Newark, and brining a USF&W form 3-177 already filled out in advance, plus copies of collecting and export permits, PLUS calling ahead to the airport to let them know when I am coming in so they can have someone there waiting from Fish & Wildlife.

more info:

<http://www.fws.gov/permits/ImportExport/-ImportExport.shtml>

Good luck!

Hi Michael,

I am guessing your friend already has export permits, because Brazil is really tough on this matter. They enforce the CBD all the way.

Import permits are needed for the US. The first I can think of is USFWS form 3-177 (<http://www.fws.gov/le/pdffiles/3-177-1.pdf>) at <http://www.fws.gov/le/-ImpExp/faqs.htm>. Of course, CITES will be needed from both ends (Brazil and USA), if the organism is on a CITES Appendix.

A letter describing the content of the samples and saying who are these samples for is always good to have.

Cheers,

sergios

Sergios-Orestis Kolokotronis

Institute for Comparative Genomics, American Museum of Natural History

HI MIke,

— / —

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>

cDNA library

Dear Colleagues: I am about to extract total RNA from cultures of micro-algae (coccolithophores) and plan to send it to a company in order to build Normalized Libraries.

These are my first trials in this field.

Could you please suggest a good company, based on your experience?

And is axenisation of the strain a crucial process?? Any other tricks/important advice??

MANY THANKS FOR YOUR HELP, Colomban

C. de Vargas CNRS, Station Biologique de Roscoff

vargas@sb-roscoff.fr vargas@sb-roscoff.fr

Berne ConservationBiol	54	UBritishColumbia PlantMolEvol	63
HarvardU EvolBiol	55	UBritishColumbia ProtistMolEvol	63
INRA Jouy en Josas LivestockDiversity	55	UBuffalo EvolGenet	63
IndianaU EvolDevelopment	56	UCaliforniaMerced CoralReefGenomics	64
London DipteranEvol	56	UChicago EvolGenomics	64
Montpellier BradyrhizobiumDiversity	56	UChicago MolluscanEvol	65
MontpellierII EvolMicrobiology	57	UHawaii 2 InvasionBiol	65
NIH Wayne State EvolGenomics	57	UIllinois MicrobialGenetics	66
PennStateU MolEntomology	58	UMeunster Bioinformatics	66
RutgersU MolEvol	58	UNewSouthWales Modelling	67
TexasTechU EvolTheory	59	UReading PopGenetics	67
UAarhus GenomeMapping	59	URegensburg HumanPopGenet	68
UAdelaide AncientDNA	60	USheffield EcoEvoDevo	68
UArizona InsectEvol	60	UWisconsin EvolPhysiologyofBirds	68
UBern CichlidAdaptiveRadiation	61	YaleU CompFuncGenomics	69
UBritishColumbia AlgalMolEvol	62		
UBritishColumbia EvolMorph MarineParasitol	62		

Berne ConservationBiol

Postdoctoral position in Conservation Biology

Dept. Conservation Biology, Institute of Zoology, University of Berne, Switzerland.

Scientists with a background education in natural sciences (biology, ecology and related fields) are invited to apply for a postdoctoral research position opened at the Division of Conservation Biology, Institute of Zoology, University of Bern, Switzerland. Launched in 2001 this research division is active in the fields of resource exploitation patterns (ecological niche requirements, from foraging ecology and habitat selection analysis to GIS modelling) and population dynamics (from estimation of basic vital parameters to integrated models, including population viability analysis). Main research focus is on threatened, emblematic species of agro-ecosystems and Alpine ecosystems (see <<http://www.conservation.unibe.ch/>>www.conservation.unibe.ch). There is no taxon limitation in our projects within the animal realm. All candidates with skills in scientific Conservation Biology in the broad sense of the term will be considered, but priority will be given to experienced researchers with a good publication record. The tenant is expected to contribute to the ongoing research programmes of the division (including assistance in undergraduate teaching and supervision), but will also develop his/her field of research. Complementary competence to the above mentioned expertise is welcome. An ideal candidate

would for instance have specific skills and interest for the development of genetic methods to assess dispersal patterns in animal populations.

The position is available for up to six years, with intermediate evaluations every second year. A 80-100% position would be preferred; lower employment grade is to be discussed. Salaries will follow the schemes of the University of Bern. Supervisors: Raphaël Arlettaz and Michael Schaub, with possible contribution by Laurent Excoffier (Computational and Molecular Population Genetics Lab) if the conservation genetics direction is taken.

The successful candidate will join a research group consisting currently of several advanced research staff, PhD- and MSc-students. Besides the Division of Conservation Biology and Population Genetics (Computational and Molecular Population Genetics Lab), the Zoological Institute of the University of Bern covers most aspects of Animal Ecology and Evolution, with research groups in Aquatic Ecology (Ole Seehausen), Behavioural Ecology (Michael Taborsky), Community Ecology (Wolfgang Nentwig) and Evolutionary Ecology (Heinz Richner).

Closing date: open until filled, but all application materials, including CV, a summary of research experience, copies of any published or in-press papers, and two letters of recommendation should be received by August 1st, 2006, to ensure full consideration. The positions will start in late 2006 or early 2007. Candidates should provide a short description of their proposed research direction and demonstrate how they intend to integrate within the host research group. In a cover letter they should also indicate when they could take up the position. Please send all application material to the secre-

tarys office, Mrs Susanne Maurer, Baltzerstrasse 6, CH-3012 Bern, Switzerland. Email applications, as well as incomplete applications will not be considered. For inquiries please contact michael.schaub@nat.unibe.ch or raphael.arlettaz@nat.unibe.ch. Dr. Michael SCHAUB Div. Conservation Biology Zoological Institute University of Bern Baltzerstrasse 6 CH-3012 Bern Switzerland Tel. ++41 (0)31 631 31 63 Fax. ++41 (0)31 631 45 35 e-mail: michael.schaub@nat.unibe.ch

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Schweizerische Vogelwarte CH-6204 Sempach Switzerland Tel. ++41 (0)41 462 97 66 Fax. ++41 (0)41 462 97 10 e-mail: michael.schaub@vogelwarte.ch

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

HarvardU EvolBiol

FELLOWSHIPS

The Radcliffe Institute for Advanced Study at Harvard University awards fully funded fellowships each year. Radcliffe Institute fellowships are designed to support scientists of exceptional promise and demonstrated accomplishment. Scientists, in any field, with a doctorate in the area of the proposed project by December 2005 are eligible to apply. Only scientists who have at least one published article or monograph are eligible to apply.

The stipend amount of \$60,000 is meant to compliment sabbatical leave salaries of faculty members. Fellows receive office space, computers and high speed links, and access to libraries and other resources of Harvard University during the fellowship year, which extends from early September 2007 through June 30, 2008. Residence in the Boston area is required as is participation in the Institute community. Fellows are expected to present their work-in-progress and to attend other fellows' events.

For more information, including lists of present and past fellows, visit our Web site at www.radcliffe.edu. Applications are due by December 4th, 2006. Apply on-line or write, call, or e-mail for an application:

Radcliffe Application Office 34 Concord Avenue, Cambridge, MA 02138 617-496-3048 - science@radcliffe.edu - www.radcliffe.edu Becki French <bfrench@radcliffe.edu>

INRA Jouy en Josas LivestockDiversity

A one year postdoctoral position is open, from October 2006, in the joint research unit INRA / INA P-G Animal Genetic and Diversity, in Jouy-en-Josas, France.

Topic: Global approach of the analysis of genetic diversity within and between livestock populations, with applications on chicken (data already available or currently under collection) - Combined use of pedigree, molecular and phenotype data: methodological developments and applications to 6 French chicken populations - Value of high density markers (SNPs): optimisation of a SNPs set taking into account the avian microchromosomes (5 sets available with 1536 SNPs per set), study of the power of markers to affect animals to their own population (64 animals from 8 populations), comparison with microsatellite markers

Location and collaborations: - The work will be realised in the UMR Genetique et Diversite Animales, in the INRA Centre of Jouy-en-Josas (western suburb of Paris). - Several opportunities of collaboration will be provided: Genetic resources network of the INRA Animal Genetics Department, National Genotyping Centre of Evry, French Genetic Resources Bureau (BRG), French federation of poultry breeding companies (SYSAAF).

Required background and skills: Population Genetics, Modeling, Knowledge on the molecular markers properties, scientific communication skills Annual salary: €26,636

Contacts: - Prof. Etienne Verrier, verrier@inapg.fr
- Dr. Michele Tixier-Boichard, michele.tixier-boichard@recherche.gouv.fr

Prof. Etienne VERRIER verrier@inapg.fr

UMR Genetique et Diversite Animales

INA Paris-Grignon / Dept SA / UER Genetique Elevage et Reproduction INRA / Dept Genetique Animale

Tel. : + 33 - (0)1 44 08 17 48 / + 33 - (0)1 34 65 21 78

Secretariat Paris : Mme Fabienne DEDOLE gergena@inapg.fr Tel. + 33 - (0)1 44 08 17 45 Fax. + 33 - (0)1 44 08 86 22 16 rue Claude Bernard, 75231 PARIS cedex 05

Secretariat Jouy : Mme Pascale COMBARD pascale.combard@jouy.inra.fr Tel. + 33 - (0)1 34 65 21 71 Fax. + 33 - (0)1 34 65 22 10 Bâtiment 211, 78352 JOUY-EN-JOSAS cedex

verrier@inapg.fr verrier@inapg.fr

IndiannaU EvolDevelopment

Please pass this information along to anyone who is qualified and might be interested. Thank you!

Indiana University is home to an NIH T32 training grant from NIHCHHD entitled, Common Themes in Reproductive Diversity. As part of the grant, we invite applications for a post-doctoral traineeship to support broadly integrative training in the areas of sexual reproduction and development. Training will focus on behavior, largely but not exclusively of animals, and will address key questions in the development and expression of sex differences, and maternal and paternal effects on morphological, sexual, and social development. Indiana University's excellent support for research and its globally recognized strengths in animal behavior, endocrinology, human sexual health, and evolution of development will ensure high quality training. Traineeships include a stipend based on current NIH pay scale commensurate with experience and funds to support research and travel. Successful applicants will help foster collaborations among faculty and serve as professional models for pre-doctoral trainees. Candidates are invited to make initial contacts with training faculty, see <http://www.indiana.edu/~reprodiv/faculty.htm> To apply, please send vita, statement of research interests, names of likely collaborators, and three letters of recommendation all in electronic form to Jeremy Bennett (jebennet@indiana.edu). Department of Biology, Indiana University, Bloomington, IN 47405. Email subject line should read: Postdoc- Ketterson. Consideration of applications will begin immediately. The target date for full consideration of applications is 1 October, 2006, but later applications are invited. The position will become available on 1 August or September 2007. Trainees must be citizens, non-citizen nationals or permanent residents of the US. The search will continue until the position is filled. Indiana University is an Equal Opportunity / Affirmative Action Employer.

lisummer@indiana.edu

London DipteranEvol

Post-Doctoral Research Fellowship in Molecular Cytogenetics of Simuliidae London School of Hygiene and Tropical Medicine Closing date for applications is 25th August 2006.

A Post-Doctoral Research fellowship is available at the London School of Hygiene and Tropical Medicine to work with Rory Post for three years on the molecular cytogenetics of the African *Simulium damnosum* complex (Diptera: Simuliidae) in a study of their taxonomy and evolution.

You can find the advertisement at the WWW URL below, and afterwards contact Personnel Office for further details and how to make an official application.

<http://www.jobs.ac.uk/jobfiles/QD217.html> Rory Post
<http://www.nhm.ac.uk/research-curation/staff-directory/entomology/cv-3608.html>

rory.post@lshtm.ac.uk rory.post@lshtm.ac.uk

Montpellier BradyrhizobiumDiversity

A postdoc position is available in the group of Gilles Béna (Evolution and Diversity of Symbioses) at the LSTM (Laboratory of Tropical and Mediterranean Symbioses), located at Montpellier in Southern France.

The postdoc position is about diversity and population genomics of the photosynthetic bacteria *Bradyrhizobium* sp. that nodulate *Aeschynomene* legumes. The symbiotic couple *Bradyrhizobium*-*Aeschynomene* *sensitiva* is extensively studied in the lab, especially the photosynthesis mechanisms, nodulation genetic bases and effect on rice growth (Plant Growth Promoting Rhizobacteria).

The goals of the project are to:

- Analyse the diversity of strains of *Bradyrhizobium* strains sampled on *Aeschynomene* *sensitiva* in Africa and America, based on AFLP and MLST.

- Using full genome arrays (including the fully sequenced

strains ORS278 and Btail), study genomic variations among divergent strains (i.e. CGH approaches), detect genomic regions subject to loss and gain and relate such hot-spots of rearrangement to their genes content.

-Analyse the bacterial diversity regards to their effects on rice growth improvement.

The applicant must have experience of data analyses from full genome microarray data (if possible Comparative Genomic Hybridization), and a good background in molecular biology and microbiology (bacterial culture, DNA and RNA extractions, Southern blots). The microarray designed and experiments will be performed by a private company, meaning that we are looking for applicants with experience in array data analyses rather than microarray experiments itself.

This postdoc position is available for an 18 months period, from 1st of November 2006 to May 2008. There is no restriction about age or citizenship. Gross salary will be around 2000 euros net (including social security),

For further information, please contact Gilles Béna (benam@mpl.ird.fr; (+33) 467593824) or Lionel Moulin (lionel.moulin@mpl.ird.fr; (+33) 467593763). You can visit lab web site (in french) at <http://www.mpl.ird.fr/lstm> . DEAD-LINE for receiving application is the 1 September 2006.

Dr. Gilles Béna Laboratoire des Symbioses Tropicales et Méditerranéennes UMR 113 TA 10 / J Campus International de Baillarguet 34398 MONTPELLIER Cedex 5 France Tel: (33) 04 67 59 38 24 Fax: (33) 04 67 59 38 02 E-mail: benam@mpl.ird.fr <http://www.mpl.ird.fr/lstm> benam@mpl.ird.fr

MontpellierII EvolMicrobiology

Poste Rouge Postdoctoral Fellow at the University of Montpellier II

We are looking for an evolutionary biologist with microbiological training to take a leading role in our research program on the experimental evolution of bacteria phage interactions. Our research team is unique in bringing together theoretical and experimental biologists on projects ranging from coevolutionary interactions between bacteria and phage to ecosystem perspectives on adaptation in microbial communities. The successful candidate will actively participate in the design and execution of experiments, will contribute to

the daily running of our P2 microbiology lab, and will co-supervise students.

The successful candidate will have a PhD degree, an excellent publication record, and will be able to provide contact details for 3 letters of recommendation upon request. The initial contract would begin in the autumn or winter of 2006 for 12 months and can be extendable for an additional year. The Poste Rouge Fellowship is limited to non-French nationals. We are particularly interested in candidates who would consider applying in 2007 or 2008 for a permanent research position in France with the Centre National de la Recherche Scientifique.

Candidates fulfilling the above criteria should address a letter of motivation along with CV to:

Dr. Michael Hochberg ISEM, Université de Montpellier II CC065, Place Eugène Bataillon 34095 Montpellier Cedex 5 France

email: [mhochber AT univ-montp2.fr](mailto:mhochber@univ-montp2.fr)

MICHAEL HOCHBERG <mhochber@univ-montp2.fr>

NIH Wayne State EvolGenomics

Perinatology Research Branch/ National Institutes of Health/National Institute of Child Health and Human Development (NIH/NICHD) in partnership with Wayne State University; Detroit, Michigan seeks qualified candidates for these Research Associate positions.

Our premier research group is made up of world experts dedicated to the pursuit of excellence in education and research leading to the improvement of the understanding, diagnosis, treatment, and prevention of disorders related to infant mortality.

Two positions are available immediately a PH.D. level scientists with expertise in comparative genomics, computer science, and inferential statistics. The research project is entitled Molecular Evolution of Reproduction, and is funded by Molecular Evolution Unit of the Perinatology Research Branch/National Institute of Child Health and Human Development/NIH. The research emphasis is to take advantage of the genome sequence data using the tools of molecular evolution to understand the genetics of labor and birth in mammals. The ideal candidate will have excellent skills in phylogenetic analysis, comparative genomics, statistics, and

molecular biology.

The Molecular Evolution Laboratories at the Center for Molecular Medicine & Genetics at Wayne State University include the laboratories of Drs. Derek Wildman, Lawrence Grossman, and Morris Goodman. Other research interests include the evolution of aerobic metabolism, mammalian systematics, and the evolution of the anthropoid primate neocortex. For more information please see <http://hompan.wayne.edu> and <http://hompan.wayne.edu> To apply, please send a full curriculum vita, up to 3 relevant manuscripts, and contact information for three references. Please send applications (either electronically or via post) to

Derek Wildman Wayne State University Services in Support of the Perinatology Research Branch-NIH/NICHD Hutzel Women's Hospital 4 Brush, Room 4820 3990 John R., Detroit, MI 48201 313.577-8234 office 313.577.3418 lab 313.577.5218 fax Email: dwildman@med.wayne.edu <<mailto:dwildman@genetics.wayne.edu>>

Please email Derek Wildman with any enquiries or questions.

dwildman@genetics.wayne.edu
man@genetics.wayne.edu

dwildman@genetics.wayne.edu

PennStateU MolEntomology

Post-doctoral position in molecular entomology at Penn State

A post-doctoral position is anticipated starting in mid to late September, 2006, in the Biology Department at Penn State University. This is a one-year position that may be extended for additional years subject to annual review by the sponsor (DARPA). The proposal has passed scientific review and presently (as of 8/29/06) awaits final signatures within the DOD.

Duties will involve a mixture of molecular and organismal biology: overseeing the establishment of a breeding colony of a large neotropical moth, assessment of flight performance with attached payloads, association of flight and metabolic performance with genotype at loci known to affect flight in other Lepidoptera, and selection, dietary and/or hormonal manipulation to deliver moths with maximized flight performance. The project features collaboration with biologists and engineers at Cornell and the Boyce Thompson Institute regarding ways to control the flight path of moths car-

rying sensor payloads. Some field work and interaction with assistants in Costa Rica and/or the Caribbean will be required, along with occasional travel to Ithaca, NY (4 hr by car from PSU). Ability to speak Spanish is desirable but not essential. Experience with basic molecular biology techniques is highly desirable. The ideal candidate is someone who combines a desire to understand molecular mechanisms with organismal biology, biomechanics, neurobiology, or bioengineering, for the advancement of both basic knowledge and applications. Salary will be in accordance with the NIH payscale for post-doctoral fellows.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

To apply, please send via email (as PDF or .doc files) to jhm10@psu.edu, a CV, a statement of research interests, some reprints or preprints, and the names and contact information for 2 references.

Jim Marden Professor Dept. of Biology Penn State University email: jhm10@psu.edu phone: 814-863-1384 <http://www.bio.psu.edu/People/Faculty/Marden/-index.html> jhm10@psu.edu jhm10@psu.edu

RutgersU MolEvol

Postdoctoral Position: Molecular Evolution of Hox clusters in Chordates, Rutgers University

A postdoctoral position is available immediately to study the molecular evolution and function of Hox clusters and genes in chordates, with emphasis on the ray-finned fishes. Current research in our lab involves (1) isolating and characterizing BAC/PAC clones that contain entire Hox clusters from different chordate lineages (2) comparative genomic analyses of Hox coding and non-coding sequences (3) investigating function of putative Hox cis-regulatory sequences conserved in ray-finned fishes using zebrafish transgenics and (4) in situ hybridization of Hox genes in embryos of bichir (*Polypterus senegalus*), the most basal living ray-finned fish. The successful applicant will contribute to ongoing research as well as embark on new directions our laboratory is taking. Requirements include a demonstrated experience with molecular biology techniques (PCR, cloning) and using public genome databases. Experience with large-insert BAC/PAC clones and gene expression techniques (e.g. in situ hybridization) is advantageous. This 2-year position is NSF funded. Rutgers University is an equal opportunity employer.

Interested individuals should send a CV and arrange to have three (3) letters of recommendation to

Dr. Chi-hua Chiu Department of Genetics HGI, Rm. 222 Rutgers University 145 Bevier Road Piscataway, NJ 08854. chiu@biology.rutgers.edu <<mailto:chiu@biology.rutgers.edu>> fax: 732-445-1147

“Chiu, Chi-hua” <Chiu@nel-exchange.Rutgers.Edu>

TexasTechU EvolTheory

Post-Doctoral position in Evolutionary Theory at Texas Tech

A post-doctoral position is available in Sean Rice's lab at Texas Tech University as part of an NSF funded project to study the mathematical foundations of evolutionary theory. This is a two year position and the starting date is negotiable.

Applicants should have a broad appreciation of evolutionary biology and an aptitude for theory. The specific research subject is flexible. The overall goal of the funded project is to show how all mechanistic evolutionary theory; including population genetics (both deterministic and stochastic), quantitative genetics, and game theory, can be derived from a few basic mathematical principles and biological observations. Because of the broad scope of the project, the post-doc will be able to work on any of a wide range of questions in evolutionary theory, using analytical or computational methods. Independent research in any other branch of theoretical population biology is encouraged as well.

The Biological Sciences Department at Texas Tech University includes a large group in evolutionary biology and ecology and has close ties to the Mathematics Department and the program in Biological Informatics.

To apply: send, via email (as PDF or .doc files), a CV, a statement of research interests, some reprints or preprints, and the names and contact information for 2 references. Applications and inquiries should be sent to Sean Rice at <sean.h.rice@ttu.edu>. To insure full consideration, applications should be received by Sep 30, 2006.

Sean H. Rice Associate Professor Dept. of Biological Sciences Texas Tech University Lubbock, TX 79409-3131 email: sean.h.rice@ttu.edu Phone: (806) 742-3039

UAarhus GenomeMapping

POSTDOCTORAL POSITION AVAILABLE IN STATISTICAL METHODS FOR GENOME-WIDE

ASSOCIATION STUDIES OF BREAST AND PROSTATE CANCER (2.5-3 years)

In my research group at the Bioinformatics Research Center (BiRC), University of Aarhus, Denmark, a fixed-term research position, funded by the EU for 2.5-3 years, is available 1 December, 2006 - start date can be negotiated.

The position relates to the development, study, and application of novel statistical methods for genome-wide association studies for breast and prostate cancer in a large EU funded project involving the deCODE company, Iceland and the Universities of Oxford, UK; Nijmegen, Netherlands and Aarhus, Denmark. The data will comprise large samples up to 2,500 individuals from each cancer (and 5,000 controls) sampled from the Icelandic and Dutch populations typed for up to 400,000 SNPs.

Applicants should have a strong background in statistics and its applications. Good computational skills are essential, and applicants should hold, or expect soon to hold, a doctorate. A background in (population) genetics applications would be an advantage, but candidates wishing to move into the genetics field are also welcome to apply.

The candidate will interact closely with and frequently visit Jotun Hein's group at Department of Statistics in Oxford www.stats.ox.ac.uk and the Statistical Department at deCODE www.decode.com, Iceland. The Bioinformatics Research Center at the University of Aarhus is a highly interactive and international environment with an equal mix of people with statistics, computer science and molecular background. For more information, visit www.birc.au.dk <<http://www.birc.au.dk/>> .

The salary range is 50,000-55,000 Euros per year with reduced taxation for foreign applicants. Informal enquiries should be directed to Enette Knudsen enette@birc.au.dk or Mikkel Schierup (mheide@birc.au.dk).

Application including a CV, a publication list, a brief statement of research interests and the names, ad-

dresses, telephone, fax and e-mail details of three referees from whom references can be obtained should be sent to enette@birc.au.dk

The closing date for applications is 15 September, 2006.

Mikkel H. Schierup Bioinformatics Research Center, University of Aarhus Hoegh Guldbergsgade 10, 8000 Aarhus C., Denmark Ph: +45 8942 3231 Fax: +45 8942 3077 Email: mheide@birc.au.dk <http://www.daimi.au.dk/~mheide>

“Mikkel H. Schierup” <mheide@daimi.au.dk>

UAdelaide AncientDNA

A 5 year post-doctoral position is now available at the new Australian Centre for Ancient DNA (ACAD) at the University of Adelaide, Australia. (<http://www.ees.adelaide.edu.au/research/acad/>)

Ancient DNA analysis of human evolution and migration National Geographic Society 'GENOGRAPHIC PROJECT' (<https://www3.nationalgeographic.com/-genographic/>)

We require an experienced postdoctoral position starting immediately on this largescale project to map the timing, location and nature of human dispersals around the world. The 5 year Genographic project involves a number of international centres, and The Australian Centre for Ancient DNA (ACAD) will be typing ancient DNA mitochondrial and Y chromosome loci from a large number of ancient human (and hominid) specimens from around the world. The complex laboratory studies will be supported by newly developed molecular methods and dedicated sequencing resources at ACAD, and significant analytical resources through the Genographic Project and partners (which include IBM, and ABI). A large fieldwork component will be involved, along with extensive collaborations with museums, archaeologists and other members of the Genographic Project. An experienced postdoc is required to perform the fieldwork, complex laboratory analyses, provide regular communication between the collaborating groups and to organize data management and analysis plus detailed reporting to NGS. Relevant skills would include a PhD in ancient DNA, archaeology, anthropology or molecular genetics and experience in areas such as SNP multiplex scoring and advanced laboratory methods. A demonstrated ability to administer a complex scientific project would be an advantage.

Starting salary: (Level B) Australian \$63,487 per annum, plus an employer superannuation contribution of 17% applies.

Interested parties are invited to contact Prof. Alan Cooper alan.cooper@adelaide.edu.au for further information.

Information on the selection criteria may be obtained from Mrs Gail Edwards email: gail.edwards@adelaide.edu.au or visit the University's current job vacancy listing here <http://www.adelaide.edu.au/jobs/> Applications, addressing the selection criteria, quoting the reference number 13530, and including residency status, names, addresses and/or email details of three referees, should be forwarded in duplicate to Maria Lekis, School of Earth and Environmental Sciences, The University of Adelaide, Darling Building, South Australia 5005, or email: maria.lekis@adelaide.edu.au by 1 September 2006.

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Prof. Alan Cooper, Federation Fellow

Darling Blg (DP 418), Rm 209b University of Adelaide North Terrace Campus South Australia 5005 Australia

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

<http://www.ees.adelaide.edu.au/research/acad/>
alan.cooper@adelaide.edu.au

UArizona InsectEvol

Postdoctoral Positions Available: Research Associate Arizona Research Laboratories, University of Arizona

NIH-IRACDA Program in Postdoctoral Excellence in Research and Teaching (PERT)

Position Summary: Several positions are available in the Postdoctoral Excellence in Research and Teaching (PERT) Program. This is a comprehensive program which offers up to three years of support to outstanding candidates seeking advanced post doctorate research training, teacher training and student mentorship in preparation for an academic career. Another desired long-term outcome is to increase the number of well-qualified underrepresented minority students entering competitive careers in biomedical research.

PERT trainees may select from among over forty-two

faculty research mentors representing a broad range of disciplines in biomedicine, bioengineering, genetics, biochemistry, neurobiology, evolutionary biology, molecular/cellular biology, physiology and behavior. The program stresses the use of non-vertebrate models for Biomedical and Life Sciences research. The program is administered through the Arizona Research Laboratories Division of the Center for Insect Science and is partnered with a Minority Serving Institution, Pima Community College. Starting salary, based on the NIH NRSA scale, will be \$36,996 for program participants with less than one year of postdoctoral experience, and includes an annual allowance for research supplies and travel. Positions are dependent upon continued funding. Additional information about the Center for Insect Science and the PERT program is available at <http://cis.arl.arizona.edu/PERT>. Qualifications: Applicants must have a Ph.D. in a related field and must be U.S. citizens or permanent residents. Applicants should have no more than two previous years of postdoctoral experience.

Application Process: All applicants must apply electronically through the University of Arizona Career Track website at: uacareertrack.com, citing job #35926. All applications are to include: - a letter of interest with a statement explaining how the PERT program will assist the applicant in her/his career goals - a CV - a three to six page research proposal developed with the intended PERT faculty research mentor describing the project to be undertaken during the training period - three letters of reference - a letter of support from the intended faculty research mentor

Original letters of reference and the letter from the proposed faculty research mentor should be mailed to: PERT, Center for Insect Science, 1007 E. Lowell Street, Room 227, University of Arizona, Tucson, AZ 85721-0106. The letter of interest, CV and research proposal should be submitted on-line through the Career Track website listed above. Please submit online applications by 5:00 p.m. on Monday, October 23, 2006. As an equal opportunity and affirmative action employer, the University of Arizona recognizes the power of a diverse community and encourages applications from individuals with varied experiences, perspectives, and backgrounds.

Dr Nicole Gerardo PERT Postdoctoral Fellow Center for Insect Science Department of Ecology and Evolutionary Biology The University of Arizona ngerardo@email.arizona.edu

<http://cis.arl.arizona.edu/PERT/people/Gerardo/index.htm> phone - (520) 626 8661 fax - (520) 621 2590

Mailing address: Department of Ecology and Evolutionary Biology, P.O. Box 210088, University of Arizona, Tucson, AZ 85721-0088, USA

Courier address: Department of Ecology & Evolutionary Biology, Biosciences West, Room 310, 1041 E. Lowell St., The University of Arizona, Tucson, Arizona 85721-0088 U.S.A.

ngerardo@email.arizona.edu
ngerardo@email.arizona.edu

ngerardo@email.arizona.edu

UBern Cichlid Adaptive Radiation

A postdoctoral researcher position is available immediately in my group to work on a Swiss Science Foundation funded project to investigate mechanisms of speciation and adaptive radiation in African cichlid fish, using molecular phylogenetic and population genetic tools. I am looking for an enthusiastic researcher with deep interest in adaptive radiation, and with considerable experience in molecular genetics and the use of AFLPs. An ideal candidate would have worked with AFLPs on CEQs and/or with cichlid phylogenetics. The postdoc position is one of several positions within an SNSF funded project, and could involve close interaction with other scientists in the group and with PhD students.

We are a very international research group that lives in two conceptually diverse departments: the Institute of Zoology of the University of Berne (we are the division of Aquatic Ecology & Macroevolution there), and the EAWAG Ecology Research Center in Kastanienbaum (where we are the Evolution and Fish Ecology department). Our lab is situated in Kastanienbaum, right over the beach of Lake Lucerne. More information about us can be found at http://www.zoology.unibe.ch/index_e.php and http://www.zoology.unibe.ch/index_e.php

The position is initially funded for 12 months, but I hope to obtain funding to continue it after that. Payment is at the Swiss Science Foundation Postdoctoral Researcher level, which is somewhere between CHF 5000 and 6000 per month, depending on age and experience.

Applications should be sent before August 24, directly to me at ole.seehausen@eawag.ch and to Michelle Sidler at michelle.sidler@eawag.ch

Prof Ole Seehausen Aquatic Ecology & Evolution

Institute of Zoology University of Bern Baltzerstr. 6,

CH-3012 Bern Phone +41 31 631 31 31 FAX +41 31 631 30 08 and EAWAG Ecology Research Center Seestrasse 79 CH-6047 Kastanienbaum Phone +41 (0)41 349 21 21 Fax +41 (0)41 349 21 68

<http://www.fishecolology.ch/>
ole.seehausen@aqua.unibe.ch

UBritishColumbia AlgalMolEvol

Research Associate Position in Algal Molecular Evolution and Genomics

University of British Columbia

Vancouver, Canada

We are looking for a well-trained highly motivated and enthusiastic individual interested in exploring comparative genomics of complex eukaryotic algae.

The applicant must have a PhD or equivalent and at least three additional years of research experience. Expertise in molecular evolutionary analyses, eukaryotic biodiversity and evolutionary history, and the interpretation of large genetic databases are essential. The applicant must also have experience in algal cultivation and cDNA library construction and sequencing. The applicant must have excellent written and oral communication skills. Molecular biology and cell biology techniques including heterologous protein expression in yeast and bacterial cells, microscopy and cell culture are also highly desirable.

The position is available immediately for an initial period of one year with a possibility for extension subject to a satisfactory performance. If interested, please send a cover letter outlining research experience and interest, a curriculum vitae and the names and contact information for 3 referees to Patrick Keeling, Department of Botany, University of British Columbia, 3259-6270 University Boulevard, Vancouver, B. C. V6T 1Z4, Canada. Email pkeeling@interchange.ubc.ca. Fax (604) 822-6089. Closing date is Oct. 1 2006.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply, however, Canadians and permanent residents of Canada will be given priority.

pkeeling@interchange.ubc.ca
ing@interchange.ubc.ca

pkeeling@interchange.ubc.ca

UBritishColumbia EvolMorph MarineParasitol

Postdoctoral Research Position: EVOLUTIONARY MORPHOLOGY, MARINE PARASITOLOGY

University of British Columbia

Vancouver, Canada

The Laboratory of Protozoan Diversity and Evolution (<http://www.botany.ubc.ca/bleander/home.html>) is looking for a broadly-trained, self-motivated and enthusiastic individual interested in exploring the evolutionary morphology and molecular phylogeny of parasites that infect marine invertebrates. The research will focus on the discovery and biodiversity of marine gregarine apicomplexans from a broad range of marine invertebrate hosts.

The applicant must have a Ph.D., excellent written and oral communication skills, and demonstrated expertise in comparative organismal biology, character evolution and systematics. Additional experience with any or all of the following is highly desirable: marine biology and fieldwork; invertebrate anatomy and dissection; light microscopy; 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 two or more weeks of field-oriented research, per year, at 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. The postdoctoral research position is available in January 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 Tel: (604) 822-2474, Fax (604) 822-6089

The closing date is Oct. 31, 2006

UBritishColumbia PlantMolEvol

Postdoctoral: molecular and genomic evolution

A postdoctoral position is available at the University of British Columbia in the lab of Keith Adams to study molecular evolution and evolutionary genomics in plants. Research in the lab currently focuses on polyploidy, gene duplication, and hybridization and their effects on gene evolution and gene expression. For more details see: http://www.landfood.ubc.ca/research/faculty_webpages/adams.htm Research for the position would pertain to the above topics or related areas in the evolution of genes and gene expression. The research likely will involve a combination of computer analyses and lab experiments. Candidates with a strong background in molecular evolution or bioinformatics are preferred. The position is available as early as September and there is some flexibility in start date.

For more information contact Keith Adams at keitha@interchange.ubc.ca To apply send a CV, a description of your research interests, and names of 3 references to the above email address.

Keith Adams

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

UBritishColumbia ProtistMolEvol

Research Associate Position in Molecular Evolution of Protistan Parasites

University of British Columbia

Vancouver, Canada

We are looking for a well-trained highly motivated and enthusiastic individual interested in exploring the evolutionary cell biology of Microsporidia parasites.

The applicant must have a PhD or equivalent and at least three additional years of research experience. Expertise in molecular biology and parasite cell biology techniques including heterologous protein expression in yeast and bacterial cells, microscopy of parasite cells and microsporidia cell culture are essential. The ap-

plicant must have excellent written and oral communication skills. Experience of genomic data analysis and willingness to take some responsibility for the running of the lab are highly desirable.

The position is available immediately for an initial period of one year with a possibility for extension subject to a satisfactory performance. If interested, please send a cover letter outlining research experience and interest, a curriculum vitae and the names and contact information for 3 referees to Patrick Keeling, Department of Botany, University of British Columbia, 3259-6270 University Boulevard, Vancouver, B. C. V6T 1Z4, Canada. Email pkeeling@interchange.ubc.ca. Fax (604) 822-6089. Closing date is Oct. 1 2006.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply, however, Canadians and permanent residents of Canada will be given priority.

pkeeling@interchange.ubc.ca
pkeeling@interchange.ubc.ca

pkeeling@interchange.ubc.ca

UBuffalo EvoGenet

A Postdoctoral position in evolutionary genetics (with at least two years of funding) is available in Derek Taylor's lab at the University at Buffalo, The State University of New York. Starting date is negotiable, but for full consideration applications should be received by September 1, 2006.

The position will address evolutionary genetics problems in water fleas (cladocerans) and complement ongoing research in the lab (the evolutionary significance of hybridization, molecular basis of adaptation, and systematic biology).

The University offers outstanding research and genome analysis facilities on campus and at the affiliated Roswell Park Cancer Institute and NYS Center of Excellence in Bioinformatics and Life Sciences.

Apply by e-mail to djtaylor@buffalo.edu with a CV and the addresses of at least two references.

Derek Taylor Associate Professor, Department of Biological Sciences, University at Buffalo, Buffalo, NY, 14260.

Derek Taylor <djtaylor@buffalo.edu>

UCaliforniaMerced CoralReefGenomics

Date: 08/15/2006

Type: Research

Position: Postdoctoral fellow on Coral Reef Genomics.
University of California, Merced

Description: The University of California is creating a dynamic new university campus and campus community in Merced, California, which opened in August 2005 as the tenth campus of the University of California and the first American research university built in the 21st century. The campus is located at the base of the Sierra Nevada foothills, near Yosemite and the San Francisco Bay Area.

A full-time postdoctoral position is available as part of an ongoing NSF-funded project to look at the functional genomics of coral symbiosis and health in the Caribbean species *Montastraea faveolata* and *Acropora palmata*. cDNA microarrays as well as several thousand ESTs are now available for these two species. Additional EST sequencing has been approved by DOE's Joint Genome Institute for these corals and their dominant dinoflagellate symbionts. BAC libraries are also available for both coral species. Primary research questions will focus on, but are not limited to, mechanisms of cell communication between host-symbiont, maintenance of symbiosis, breakdown of symbiosis (i.e. bleaching), response to disease. The successful candidate will be part of a multidisciplinary research team and a member of the Quantitative Systems Biology Group in the School of Natural Sciences.

Questions regarding the exact duties and responsibilities may be addressed to: mmedina@ucmerced.edu. Additional information about the School of Natural Sciences and the University of California at Merced can be found at <http://www.ucmerced.edu>. Conditions: The position is available immediately. Salary negotiable based on experience. Continuation is contingent on performance and availability of funds. The position includes generous benefits. The University of California at Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students.

Education: Ph.D. in Genome Biology, Marine Biology,

Bioinformatics or related fields. Applicants with experience in bioinformatics and/or microarray analysis are especially encouraged to apply.

Instructions: Applicants should submit a cover letter, curriculum vitae or resume, and a list of three or more references including telephone numbers and email address to: Mónica Medina mmedina@ucmerced.edu.

Deadline: Until a suitable candidate is identified.

Monica Medina Assistant Professor and Founding Faculty School of Natural Sciences University of California, Merced P.O. Box 2039 Merced CA 95344 tel: 209-381-7863 fax: 209-812-1857 mmedina@ucmerced.edu <http://qsb.ucmerced.edu/mmedina/> Monica Medina <mmedina@ucmerced.edu>

UChicago EvolGenomics

POSTDOC IN EVOLUTIONARY GENOMICS, UNIVERSITY OF CHICAGO

A postdoctoral position in evolutionary genomics is available in Yoav Gilad's laboratory at the University of Chicago.

The research of the lab focuses on inter-species comparisons at the sequence and expression levels, to identify genomic regions that underlie hominid adaptations, and to help elucidate the genetic architecture and evolution of regulatory processes in primates. The specific project uses a variety of cutting-edge laboratory techniques to identify biochemical pathways that have been remodeled in human evolution.

The lab is located within Human Genetics (<http://www.genes.uchicago.edu/>). We enjoy close ties with a number of other groups in the department, and benefit from the exceptional community of researchers in population genetics and genomics at the University of Chicago.

Applicants for the position must have experience with cell culture and have previously worked with RNA. The ideal candidate would also have experience with microarrays. Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of recommendation) should be emailed to Yoav Gilad at <gilad@uchicago.edu>. The starting date is negotiable, but the position is available immediately.

Yoav Gilad Dept. of Human Genetics University of Chicago <http://www.genes.uchicago.edu/gilad.html>

yoav.gilad@gmail.com

UChicago MolluscanEvol

Seeking a post-doctoral researcher (Research Associate/Instructor) to participate in a NSF-funded global meta-analysis of marine benthic assemblages, to assess and develop new quantitative approaches to using skeletal remains as proxies of live communities for conservation biology, marine ecology, and paleoecological analysis. Associate will take the lead in completing a live-dead analysis of already-collected molluscan samples from coastal US waters, and, depending on expertise, participate in multivariate analysis and modeling of either taphonomic processes or macroecological patterns. Experience in marine benthos required and mollusks preferred, from either a neontologic or paleontologic perspective. 1 year appointment, starting Fall 2006. Requires either a PhD in hand or dissertation submitted and approved for degree. Please send an application letter, CV, and names of 2 persons who can write recommendations to Professor Susan Kidwell, Department of Geophysical Sciences, University of Chicago, skidwell@uchicago.edu. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

Susan Kidwell William Rainey Harper Professor Department of Geophysical Sciences University of Chicago 5734 South Ellis Avenue Chicago IL 60637 773-702-3008 fax 773-702-9505

skidwell@uchicago.edu

UHawaii 2 InvasionBiol

Hi, the following are two separate post doc announcements which may be of interest to EvolDir visitors. Both are still available, despite the advertising and start-dates... Thank You!

POSITION #1:

INVASION BIOLOGY POST-DOCTORAL POSITION UNIVERSITY OF HAWAII Kauai Agricultural Research Center

PERIOD: To begin after September 2006. Full-time,

federal funds, renewal dependent upon performance and continued availability of funds.

DUTIES: Participate in research on invasion biology and biocontrol of exotic aphid species in Hawaii, and the behavioral ecology of their parasitoids. Design and conduct experiments, obtain and interpret data, prepare publications, and participate in the preparation of grant proposals.

MINIMUM \$38,184/ year plus full benefits package. SALARY:

MINIMUM PhD degree in Entomology or related field; knowledge and QUALIFICATIONS: experience in insect ecology, as evidenced by senior-authored publications in peer-reviewed journals.

WORK LOCATION: Kauai Agricultural Research Center, Kauai, Hawaii.

CLOSING DATE: Review of applications will begin on July 15, 2006, and will continue until the position is filled.

TO APPLY: Submit letter describing research interests, CV, and contact information for 3 professional references to: Russell Messing, University of Hawaii, 7370 Kuamo'o Rd., Kapa'a, HI, 96746.

INQUIRIES: messing@hawaii.edu

POSITION #2:

BEHAVIORAL ECOLOGY POST DOC UNIVERSITY OF HAWAII Kauai Agricultural Research Center

PERIOD: To begin after September 2006. Full-time, federal funds, renewal dependent upon performance and continued availability of funds.

TRAINING: Participate in research on biological control of exotic tephritid fruit fly species in Hawaii and the behavioral ecology of braconid parasitoids. Design and conduct experiments, obtain and interpret data, prepare publications, and participate in the preparation of grant proposals.

MINIMUM \$38,184/ year plus full benefits package. SALARY:

MINIMUM PhD degree in Entomology or related field; knowledge and QUALIFICATIONS: experience in insect ecology, as evidenced by senior-authored publications in peer-reviewed journals.

WORK LOCATION: Kauai Agricultural Research Center, Kauai, Hawaii.

CLOSING DATE: Review of applications will begin on July, 2006, and will continue until the position is filled.

TO APPLY: Submit letter describing research interests,

CV, and contact information for 3 professional references to: Russell Messing, University of Hawaii, 7370 Kuamo'o Rd., Kapa'a, HI, 96746.

INQUIRIES: messing@hawaii.edu

Daniel Rubinoff <rubinoff@hawaii.edu>

UIllinois MicrobialGenetics

A position is available for a post-doctoral researcher to explore mechanisms of genome evolution in thermophilic Archaea. Initial projects include comparative population genomic analyses of eight closely-related *Sulfolobus* strains currently being sequenced by the Joint Genome Institute. Primary research questions will focus on, but are not limited to, mechanisms of genetic exchange, molecular signatures of local adaptation, and the evolutionary history of extra-chromosomal elements including viruses, plasmids and transposable elements. Position may involve development of genetic and metagenomic tools to explore genome dynamics along spatial and temporal gradients in natural populations.

Candidates for this position should have a Ph.D. in microbiology, molecular evolution, population genetics or computational biology. Applicants with experience in bioinformatics and/or population biology are especially encouraged to apply.

Postdoc will benefit from interactions with research labs at the newly established Institute for Genomic Biology as well as other labs in the Department of Microbiology at the University of Illinois at Urbana-Champaign.

Applications including a cover letter, CV, and three references should be submitted by September 1, 2006 to Dr. Rachel Whitaker at rwhitaker@life.uiuc.edu.

Dr. Rachel J. Whitaker Department of Microbiology University of Illinois 601 South Goodwin Ave Urbana, IL 61801 http://www.life.uiuc.edu/micro/-faculty/faculty_whitaker.htm rwhitaker@life.uiuc.edu

UMeunster Bioinformatics

***** OPEN POSITIONS (PhD and Post-

doctoral) IN ***** EVOLUTIONARY BIOINFORMATICS AND SYSTEMS-BIOLOGY *****

Several positions as postdoctoral (1.0 FTE) and post-graduate (PhD student, 0.5 FTE) research associates in the group of Evolutionary Bioinformatics at the newly founded Institute of Evolution and Biodiversity, University of Muenster, (www.uni-muenster.de/evolution), will be tenable from early 2007.

Interested candidates should send informal requests to Prof Bornberg-Bauer [ebb\[at\]uni-muenster.de](mailto:ebb[at]uni-muenster.de) or applications (pdf attachment, max 4 pages) asap to: Ms Martina Doberenz (doberenz@uni-muenster.de) (c/o Prof. Dr. Erich Bornberg-Bauer), AG Evolutionary Bioinformatics, Institut for Evolution and Biodiversity, FB Biologie, Westfälische Wilhelms Universität Münster Schlossplatz 4, D-48149 Münster, Germany www.uni-muenster.de/Evolution/ebb Closing date is Nov 1st 2006.

Research projects will be in one or more of the following areas: (see www.uni-muenster.de/evolution/ebb/-research for details)

*) Analysing the evolution of domain arrangements *) Analysis of stress responses in a range of organisms using various OMICS data and modelling of biological systems *) Analysing the principles of adaptation in response to biotic and abiotic stress such as host-parasite co-evolution and climate changes using ESTs, microarray and sequence data. *) Evolution of biochemical networks, including genetic and interaction networks. *) Evolvability and adaption of RNA

Required qualifications are:

*) PhD or PG University degree in a biological area such as biochemistry biophysics, OR background in (bio)informatics and research experience in a biological field (which should be detailed in the application). *) basic skills in statistics *) strong programming skills (in one or several of JAVA, C, PYTHON, PERL) *) LINUX/UNIX literacy *) Motivation and proven ability to carry out bioinformatics research independently

Positions are paid according to the BAT (or soon the TÖVD) scheme. Teaching and administrative duties are generally low, with amount and balance depending on the particular project as well as background, qualifications and experience of candidates.

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 her-

itage 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, Bioinformatics, Inst. Evolution+Biodiversity School of Biology, University of Muenster, Schlossplatz 4, D48149, Germany Tel/Fax: +49(0)25183-21630/21631 www.uni-muenster.de/evolution/ebb/ Erich Bornberg-Bauer <ebb@uni-muenster.de>

UNewSouthWales Modelling

Research Fellow

UNIVERSITY OF NEW SOUTH WALES

SCHOOL OF BIOLOGICAL, EARTH & ENVIRONMENTAL SCIENCES

REF. 4508SCI

We are offering a full-time postdoctoral research position in modelling environmental flows and responses of aquatic organisms. The project aims to develop a series of models linking environmental flows to different biotic responses and integrating these to produce a decision-support system for environmental flows in the Macquarie Marshes of inland Australia. The appointee will also support the operation of Waterbirds, wetlands and rivers laboratory in the School of Biological Earth and Environmental Sciences.

The salary range is A\$65,028 - A\$76,660 per year (plus up to 17% employer superannuation plus leave loading), depending on qualifications and experience.

This is a fixed-term appointment for up to three years.

Full details of this position can be found at: <http://www.hr.unsw.edu.au/services/recruitment/newjobaca.html>

Enquiries may be directed to Prof Richard Kingsford on (61 2) 9385 3442 or email: richard.kingsford@unsw.edu.au

Applications close 6 September 2006.

All the best

Richard Kingsford Professor of Environmental Science School of Biological, Earth and Environmental Sciences University of New South Wales

Sydney NSW 2052 Tel - 61 2 9385 3442 Fax - 61 2 9385 1558 <http://www.bees.unsw.edu.au> <http://www.bees.unsw.edu.au/school/staff/kingsford/kingsfordrichard.html>

richard.kingsford@unsw.edu.au

UReading PopGenetics

A postdoctoral position is available at the University of Reading, UK. The post is funded at GBP 25,565 for approximately 16 months (precise details available on request).

The subject area is in population genomics. The objective is to develop methods for analysing genome-wide dense marker data (such as AFLPs, SNPs, or DNA sequence data) from multiple populations, with a view to identifying regions of the genome that are strongly influenced by selection. We are particularly interested in genome regions where selection strongly favours different alleles in different populations, so that local adaptation is maintained in the face of gene flow. The statistical methods developed here will help us to make inferences about the genetic basis of adaptation and speciation.

We are looking for an enthusiastic biologist, who, ideally, has some experience in programming and statistical analysis, and would like to learn more. We would prefer an early start date.

For further information please contact Mark Beaumont (m.a.beaumont@reading.ac.uk) Kevin Dawson (kevin.dawson@bbsrc.ac.uk)

– Mark A. Beaumont, School of Biological Sciences, AMS Building, University of Reading, Whiteknights, P.O. Box 228, Reading RG6 6AJ, UK

Tel 0118 378 7707 Fax 0118 931 0180

Email: m.a.beaumont@reading.ac.uk

WWW: <http://www.rubic.rdg.ac.uk/~mab/>

m.a.beaumont@reading.ac.uk

m.a.beaumont@reading.ac.uk

URegensburg HumanPopGenet

Job Opening

August 2006

The Institute for Functional Genomics offers a position for a

Research Associate/Postdoc in Population Genetics to be filled as soon as possible.

The Institute of Functional Genomics at the University of Regensburg, Germany, is seeking a full-time Research Associate or Postdoctoral Fellow to work on the population genetic history of the four human genetic systems mtDNA, Y-chromosome, X-chromosome and autosomes in 10 worldwide populations. The institute, chaired by Prof. Peter Oefner, who had worked at Stanford University closely with Profs. Cavalli-Sforza and Feldman from 1993 till 2006, is equipped with a state-of-the-art DNA sequencing and high-density microarray facility, and entertains extensive collaborations with European and US population geneticists. Applicants should hold a Ph.D. degree in population genetics. The successful candidate will be hired initially for 3 years, with the option of an extension of up to 6 years and the possibility of obtaining the Habilitation, provided that he or she will take on teaching obligations. Applications shall be sent to peter.oefner@klinik.uni-regensburg.de and include a biosketch, bibliography, and letter(s) of recommendation by current and/or past advisors that attest to the ability of the candidate in planning, executing and presenting research work.

Peter Oefner, M.D. Professor and Chair of Functional Genomics Institute of Functional Genomics University of Regensburg Josef-Engert-Str. 9 93053 Regensburg, Germany Phone +49-(0)941-944-5014 Fax +49-(0)941-944-5019 Email: peter.oefner@klinik.uni-regensburg.de

Peter Oefner <oefner@genome.stanford.edu>

USheffield EcoEvoDevo

POSTDOCTORAL POSITON in ECO-EVO-DEVO at the UNIVERSITY OF SHEFFIELD.

The endocrine basis of phenotypic plasticity in a predator-prey system (How do hormones control predator induced defences in daphnia?)

3 year NERC (UK) Funded Position - START DATE - Oct/Nov 2006.

Project detail Why are there so many patterns in

colouration, morphology, life history and behaviour within a particular species? Recently, developmental biologists and ecologists have begun to join forces to answer this question in the field of ecological developmental biology (ECO-DEVO). They are asking how phenotypic plasticity emerges from the interplay between a changing environment and the physiological machinery that regulates an organisms development.

This project aims to investigate the developmental (e.g. hormonal) basis of inducible defences in a classic water-flea (*Daphnia pulex*) / phantom midge (*Chaoborus* spp.) predator-prey system. In this system, predator based chemical signals induce striking adaptive morphological and life history plasticity in the prey. The interplay between invertebrate hormones such as ecdysteroids, juvenile hormone and other peptides is known to regulate just these types of developmental changes including the moult cycle and the timing of and variation in morphology, growth, maturity and development. The proposed research will test the hypothesis that the chemical signal that predators emit triggers an adaptive shift in the endocrine system, leading to adaptive and plastic changes in prey growth and development. The research aims to:

- identify the hormones and peptides that underpin the induction of these adaptive, developmental changes;
- identify predator induced change in the time sequence of hormone concentration; and
- test among four hypothesis for the developmental control of the induced phenotype.

-Experience with laboratory hormone assays, invertebrate physiology &/ or aquatic community ecology will be helpful. -Application details forthcoming on <http://jobs.ac.uk> Contact for more information: Dr. Andrew Beckerman +44 (0)114 222 0026 Dept. of Animal and Plant Sciences, Univ. of Sheffield, Sheffield, S10 2TN, UK. a.beckerman@sheffield.ac.uk <http://www.beckslab.staff.shef.ac.uk/> a.beckerman@sheffield.ac.uk

UWisconsin EvolPhysiologyofBirds

Two-year NSF-funded POSTDOCTORAL POSITION to study ontogeny of digestive physiology in altricial passerine birds. Besides whole-animal measures of digestive function, research will include optimizing measures of activity and expression (e.g., Western blots) of enzymes and transporters of the intestinal brush border

membrane, and characterizing changes during postnatal development. PhD in biological sciences required and relevant experience in biochemical and molecular methods and animal handling highly desirable. Position available October 2006, and applications will be accepted until the position is filled. Send (preferably by email) letter of intent, curriculum vitae, and names and email addresses of three references to: William H. Karasov, Department of Wildlife Ecology, Univ. Wisconsin, Madison, WI 53706, wkarasov@wisc.edu. Laboratory website <http://wildlife.wisc.edu/faculty/-karasov/karasov.htm> William H. Karasov University of Wisconsin, Wildlife Ecology Dept.

William Karasov <wkarasov@wisc.edu>

YaleU CompFuncGenomics

Postdoctoral Opening in the Townsend Laboratory

One or two post-doctoral positions in comparative evolutionary genomics are available in the Department of Ecology and Evolutionary Biology at Yale University in the Townsend Laboratory.

1) Comparative functional genomics: To study the evolution and functional genomics of *Saccharomyces* or *Neurospora*, likely including studies of the functional genomics of development in *Neurospora*. Possible projects may include the evolution of gene expression and the functional genomics of interspecies infertility. This position will require an independent and motivated individual, preferably with laboratory experience working on *Saccharomyces* or *Neurospora*.

2) Comparative genomics: To study the evolution of genome sequence, with particular focus on the detection of selection in genome-wide sequence data and on the phylogenetic informativeness of partitions of genomic sequence. The candidate should have experience working with whole-genome datasets, constructing bioinformatic pipelines for large-scale data analysis, and familiarity with a wide variety of phylogenetic methods and software.

Applicants soon to acquire their Ph.D. or with previous postdoctoral experience are welcomed. All applicants should have received their Ph.D. prior to taking up the appointment.

Funding is available for multiple years, depending on performance. The salary will be greater than the NIH guidelines, and commensurate with experience and expertise. Yale is located in New Haven in the heart of New England, close to Hartford, New York, Providence, and Boston.

Closing date: September 15, 2006. Starting date is flexible.

To apply, please send a CV, a brief statement of research interests and contact information for three academic references to

Jeffrey.Townsend@Yale.edu

Jeffrey P. Townsend, Ph.D.

Assistant Professor Dept. of Ecology and Evolutionary Biology Yale University P.O. Box 208106 165 Prospect Street New Haven, CT 06520

203 432-4646

Jeffrey.Townsend@Yale.edu

Jeffrey.Townsend@Yale.edu

Jeffrey

WorkshopsCourses

OahuHawaii ConsGenet Jan7-20	70
UDublin Biodiversity	70

OahuHawaii ConsGenet Jan7-20

Subject: Course: Conservation Genetics in HI, deadline Sept. 15

The American Genetic Association in conjunction with the National Cancer Institute, The Laboratory of Genomic Diversity, Frederick, Maryland, NOAHS-Smithsonian Institution and The Hawaii Institute of Marine Biology is presenting a 12-day intensive course beginning January 7th thru January 20th, 2007 at The Hawaii Institute of Marine Biology, Coconut Island, Honolulu, Oahu Hawaii.

The course will be directed by Dr. Stephen J. O'Brien and taught by renowned scientists in methods, interpretation, and applications of molecular genetic analyses for conservation of endangered species. Local host, Dr. Brian Bowen, Assistant Researcher, Hawaii Institute of Marine Biology and his colleagues will also co-teach this course.

Faculty: The 2007 faculty is being assembled but currently includes such pioneers in conservation genetics as:

* Scott Baker, Ph.D. (Molecular Ecology and Evolution, School of Biological Sciences University of Auckland) * Brian Bowen, Ph.D. (SOEST, Hawaii Institute of Marine Biology, University of Hawaii) * Richard Frankham, Ph.D. (Dept. of Biological Sciences, Division of Environmental and Life Sciences Macquarie University) * Jennifer Graves, Ph.D. (Comparative Genomics Group, Research School of * Biological Sciences Australian National University) * Stephen Palumbi, Ph.D. (Hopkins Marine Station, Stanford University Hopkins Marine Station) * Alison Sherwood, Ph.D. (Botany Dept., University of Hawaii) * Andrew Storfer, Ph.D. (School of Biological Sciences, Washington State University) * Robert Wayne, Ph.D. (Dept. of Ecology and Evolutionary Biology, UCLA) * James Wilgenbusch, Ph.D. (School of Computational Science, Florida State University)

In addition: members of the Laboratory of Genomic Diversity, NCI-Frederick: Stephen O'Brien, Lab Chief, Warren Johnson, Jill Slattery, Alfred Roca, Jennifer Troyer, Bailey Kessing, and Victor David.

TOPICS include:

* Sampling strategies * Technologies for detecting genetic variation * Genetic analysis: bioinformatics and the use of molecular genetic databases estimating ge-

netic diversity with molecular markers phylogenetic algorithms: use and interpretation phylogeography population structure and demographic history kinship and paternity assessment * Emerging pathogens in natural populations * Integration of genetics in conservation management

Applicants should be conservation-minded scientists (advanced graduate students, post-docs, teachers, and researchers with advanced degrees) of any nationality from academia, government, NGOs, or industry who are studying the genetics of endangered species and who will apply the knowledge gained from this course to the conservation of such species. Deadline for applying is September 15, 2006.

Interested individuals can contact us at congen@ncifcrf.gov Or visit the website: <http://home.ncifcrf.gov/ccr/lgd/congen2007/index.asp> Al Roca <roca@ncifcrf.gov>

UDublin Biodiversity

MSc./PgDip. in Biodiversity and Conservation School of Natural Sciences, University of Dublin, Trinity College, Ireland

This new course will provide in-depth training and experience for those looking to further their career in various aspects of biodiversity and its conservation, for students wishing to pursue further post-graduate research in this area, and for professionals already working in conservation biology wishing to obtain relevant qualifications. The course will be taught in modules, and these are grouped into theoretical components, practical research skills, and modules dealing with individual desk and experimental research projects. Students may omit the individual research project to be awarded a Post-graduate Diploma, those wishing to obtain the degree of Master in Science must complete a four month individual research project. The School of Natural Sciences has considerable research and teaching capability in biodiversity and conservation, and the course will be taught by staff who are actively engaged in a variety of relevant research projects. Staff from relevant State agencies and institutions who are active in the practical application of conservation science, and biodiversity and conservation policy, will also make contributions to the course teaching. In Spring there will be an overseas field course, the venue for this course has not yet been finalised.

The course will be taught through a variety of methods - lectures, practicals, field-based learning, guided reading and discussion groups and web-based methods. A variety of assessment procedures will also be adopted - essay writing, oral presentations, web-based tests, examinations and assessment of dissertations. The approach will be to develop, progressively, a high degree of independent thinking and academic excellence in students completing the course, providing a smooth transition for those entering both directly from undergraduate degrees, and for those entering the course from industry.

Course Director: Dr S. Waldren Further information on the course and the School of Natural Sciences is available from The School Administrator Tel.: +353-1-6082920 Email: schnatasc@tcd.ie For further information on student life in Trinity College, see <http://www.tcd.ie/info/prospectivestudents/> - Dr Trevor Hodkinson Department of Botany School of Natural Sciences University of Dublin, Trinity College D2, Ireland

Phone: 353-1-6081128 Fax: 353-1-6081147 Email: trevor.hodkinson@tcd.ie

hodkinst@tcd.ie

Instructions

Instructions: To be added to the EvoDir 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 EvoDir 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 EvoDir direct them to the email evodir@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.