
E v o l D i r

August 1, 2008

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

Forward

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

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

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Barcelona Metazoan Evolution Oct deadline

Dear All,

We inform you that the deadline for the registration to the "ICREA conference on the Origin and Early Evolution of Metazoans" is July 15th.

Registration to the conference is free, but attendance limited to the first 200 registered. There are still some places available. Registration and further details at: <http://www.originmetazoa.com/Welcome.html>

Best wishes,

Inaki Ruiz-Trillo Pere Martinez Andrew J. Roger

<http://www.originmetazoa.com/Welcome.html> Inaki
Ruiz <inaki.ruiz@icrea.es>

Chicago Botanic Garden Plant Biology Conservation Nov1

This one day conference focuses on Plant Biology and

Conservation in the beautiful setting of the Chicago Botanic Garden and the day will end with a great keynote speaker - Peter Crane. There is no registration fee for presenters and the fee is minimal for students and includes parking, continental breakfast, lunch, and afternoon reception.

Symposium: Student Research in Plant Biology and Conservation Saturday, November 1, 8 a.m. - 5:30 p.m.

The Chicago Botanic Garden is pleased to host the second annual Student Research in Plant Biology and Conservation Symposium, especially for graduate and undergraduate students to present their research. While the presenters are all students, faculty members and all those interested in plant biology are encouraged to register. This will be a day-long event providing students with an early opportunity to present their research to colleagues. It is a wonderful chance for students with related interests and concerns to learn about the research of others, make contacts, and present their own work in a collegial and low-stress environment. The event will close with our invited keynote speaker, Sir Peter Crane.

For more information visit: http://www.chicagobotanic.org/school/symposia/-symposia_SRPBC.php Any questions should be directed to Nyree Zerega Director of Graduate Program Plant Biology and Conservation <http://www.plantbiology.northwestern.edu> Chicago Botanic Garden E-mail: nzerega@chicagobotanic.org Phone:

847-835-6916

nzerega@chicagobotanic.org

Eatonton Georgia SEPEEG Oct24-26

Registration for the 2008 SEPEEG meeting is now available.

The 2008 SouthEastern Population Ecology and Evolutionary Genetics (SEPEEG) meeting will be held on the weekend of October 24 - 26.

The meeting will take place at Rock Eagle conference facility, which is in Eatonton, Georgia. Eatonton is about an hour east of Atlanta, and is easily accessible from Interstate 20.

Keeping with the tradition of SEPEEG, the 2008 meeting will be informal and accommodations will be on the rustic side. Talk and poster submissions are encouraged from undergrads, grad students, post-docs, and faculty.

Registration is \$125 before September 20th, and \$140 from September 20 - October 16. Registration closes on October 16, 2008. Registration includes housing for two nights (dorm style), five meals (breakfast Saturday through lunch Sunday), snacks, and social activities.

SEPEEG 2008: <http://mendel.genetics.uga.edu/-index.php?page=sepeeg-2008> SEPEEG Registration: https://estore.uga.edu/C21653_ustores/web/store.main.jsp?STOREID5&SINGLESTORE=true Rock Eagle: [http://www.georgia4h.org/public/-facilities/rockeagle/](http://www.georgia4h.org/public/-facilities/rockeagle/default.htm) default.htm

The meeting organizers are Kelly Dyer, David Hall, David Moeller, and the University of Georgia Genetics Department.

Please contact any of us with questions. We hope to see you there!

Kelly Dyer (kdyer@uga.edu) David Hall (davehall@uga.edu) David Moeller (dmoeller@uga.edu)

kdyer@uga.edu

London Evolutionary Research Network 2008 Annual Conference CALL FOR PAPERS

The 6th Annual LERN Conference will be held on Friday 12th September 2008, at the Institute of Zoology, Regents Park, London, UK.

The LERN conference provides an opportunity for post-graduate students working on any aspect of evolution to present their work to a diverse audience. Last year's program (see http://londonevolution.net/?page_id6) demonstrates the broad range of topics showcased at the conference. We welcome applications from institutions beyond London.

The conference spans a full day, with four sessions and two keynote speakers: Tim Blackburn and Ruth Mace.

Talks are 15 minutes long with five minutes for questions. Posters may also be submitted. Prizes are awarded for the best talk and best poster.

Registration is free, and there will be a drinks reception after the conference.

To apply to present a talk or poster, please complete the short email form below and return to conference@londonevolution.net by 31 JULY 2008. You should receive an email confirming receipt of your application within three days. Please send your application again if you do not!

Further programme information regarding the conference will be confirmed and circulated later in the summer.

Please circulate this email to anyone who may be interested, and contact us for any other conference enquiries on conference@londonevolution.net.

Regards Fiona Jordan LERN Committee

LERN 2008 CONFERENCE APPLICATION

Name: Institution and Department: Program and year of study:

Abstract (no more than 200 words):

Would you prefer to present your work as a talk or a poster?

LERN: the London Evolutionary Research Network. E-mail info@londonevolution.net or visit <http://londonevolution.net> for events and further information. New members and suggestions for speakers are always welcome!

f.jordan@ucl.ac.uk f.jordan@ucl.ac.uk

KansasCity ArthropodGenomics June11-14

Save the dates of June 11 to 14, 2009, and plan to attend the..

3rd ANNUAL ARTHROPOD GENOMICS SYMPOSIUM

As more arthropod genomes are sequenced, we are faced with the ever-growing need for databases and bioinformatics tools based on common platforms to support comparative genomics. The Arthropod Genomics Consortium was formed to address these issues. The first projects focus on databases and tools for literature annotation. You are invited to join the fun as we share our progress with the arthropod research community, by providing feedback on these projects and input new possibilities.

DATE: June 11 to 14, 2009, in Kansas City at the Marriott Downtown

SPONSOR: K-State Arthropod Genomics Center, Kansas State University

TENTATIVE SCHEDULE:

Thursday evening, June 11 - Keynote presentation and welcome reception

Friday & Saturday, June 12 and 13 - Platform and Poster sessions

Sunday am, June 14 - Roundtable discussion with the ArthropodBase Consortium.

Noon, Sunday, June 14 - Activities will conclude.

Speakers who are experts in arthropod genomics and bioinformatics with applications in genomics will be announced soon! Additional speakers will be selected from contributed posters.

Demonstrations: Database and bioinformatics tools developers will be available at the meeting to provide hands-on demonstrations.

Visit our website, www.k-state.edu/agc, for updates as details are finalized.

Share this announcement with colleagues and students!

Add your name to the Symposium mailing list, by sending your contact information to dmerrill@k-state.edu.

Doris Merrill, Program Coordinator K-State Arthro-

pod Genomics Center Division of Biology, Kansas State University 116 Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, dmerrill@k-state.edu www.k-state.edu/agc dmerrill@k-state.edu

Leiden IslandEvolution Feb12-13

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

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

“Island Evolution 150 Years After Darwin”

12 & 13 February 2009

Museum Naturalis

Leiden, the Netherlands

The meeting will bring together traditional students of island biotas, experimental/theoretical community ecologists, and evolutionary biologists, to explore the role of island-biological processes in a world in which the “island processes” of isolation and dispersal are being drastically altered.

Confirmed keynote speakers:

Mark Lomolino (State University of New York, Syracuse)

Peter Morin (Rutgers University, New Jersey)

More information on the programme and the registration procedure will soon be available at: <http://www.naturalis.nl/darwin2009> Prof. Dr. Menno Schilthuis National Museum of Natural History 'Naturalis' P.O. Box 9517; 2300 RA Leiden; the Netherlands tel. (+31-0)-71-5687769; mobile: (+31-0)-6-22030313; home: (+31-0)-318-300380 E-mail: schilthuis@naturalis.nl <<mailto:schilthuis@naturalis.nl>>

; schilthuis@yahoo.com <<mailto:schilthuis@yahoo.com>> Web-

page: <http://science.naturalis.nl/schilthuisen> <<http://www.menmoschilthuisen.org>>

<http://www.mennoschilthuizen.org/> >

Other affiliations:

* Extraordinary Professor for Insect Biodiversity; University of Groningen, the Netherlands * Honorary Research Associate; Institute for Tropical Biology and Conservation; Universiti Malaysia Sabah; Locked Bag 2073; 88999 Kota Kinabalu; Malaysia

“Schilthuizen, M.” <Schilthuizen@naturalis.nnm.nl>

12th Evolutionary Biology Meeting at Marseilles (24 - 26 september) is now available on our website: <http://sites.univ-provence.fr/evol-cgr/> Few spots for poster presentation are still available.

Best regards,

Pierre Pontarotti

Universite EGEE <Egee@univ-provence.fr>

London BeyondCladistics Oct1-3

1st - 3rd October The Linnean Society of London

Beyond Cladistics: A Festschrift for Prof C J Humphries

As an approach to the discovery of phylogenetic relationships among organisms, cladistics took the systematics community by storm. According to David Hull, in his 1988 account of its history, cladistics was winning out everywhere; according to Colin Patterson, cladistics ³began in the late 1960s, accelerated in the 1970s, and was virtually complete by the eighties²; in contrast, Gareth Nelson suggested that cladistics is suffering from ³Arrested Development². This symposium, entitled Beyond Cladistics, in honour of botanist Chris Humphries, will address some general issues relating to cladistics: its past, its present and its future if, indeed, there is anything beyond cladistics itself.

Programme details here: <http://www.linnean.org/fileadmin/events2/events.php?detail=3D123> Registration for all of these events is essential, full details can be found here: <http://www.linnean.org/index.php?id=3D226> Please contact Kate Longhurst if you have any queries: kate@linnean.org <<mailto:kate@linnean.org>> +44 (0)20 7434 4479 Ext 13

k.james@nhm.ac.uk k.james@nhm.ac.uk

Marseilles 12thEvolutionaryBiology Sep24-26 Program

Dear all,

We are pleased to inform you that the program of the

Melbourne DarwinAnniversary Feb12

Come Share in a Unique Experience

You are invited to come to Melbourne, Australia to share in a unique conference experience, celebrating the 200th anniversary of Darwin's birth (February 12, 1809) and the 150th anniversary of the publication of the Origin of the Species

When Charles Darwin came to Australia on the voyage of HMS Beagle in 1836 he was an obscure English naturalist.

23 years later the publication of Darwin's book, Origin of the Species, sparked an intellectual, social and spiritual revolution. It radically transformed our understanding of life on this planet - the origins of life, our relationship to other species and the way life can adapt or fail to do so in the face of environmental change.

Evolution - the Experience will explore the breadth and depth of Darwin's ongoing impact in basic biology, agriculture, medicine, psychology, sociology, politics, history and religion.

Evolution - the Experience will be embedded in rich menu of public events, each in their own way touching the Darwinian theme - theatre, film, forums, debates and exhibitions involving theatre companies, orchestras, cinemas, museums, art galleries, libraries, botanic gardens, zoos, herbaria, schools, universities and the media. And on February 12, 2009 there will be a unique birthday celebration < <http://www.evolution09.com.au/social.php> > for Charles Darwin.

Register your interest in being part of this extraordinary experience so that we can keep you updated of all key information - www.evolution09.com.au Regards

Kim

Kim Stevenson

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Kim Stevenson <kims@thinkbusinessevents.com.au>

Munich SocialInsectEvolution Oct9-11

Invitation to the 1st Central European Meeting*

of the IUSSI (International Union for the Study of Social Insects)

from 9.10.2009 to 11.10.2009

Abbey Frauenw^Ä, Fraueninsel Chiemsee

* *

* AG Behavioral Ecology*

LMU Munich

Gro^Ähaderner Str. 2

82152 Planegg-Martinsried

*foitzik@biologie.uni-muenchen.de

<mailto:foitzik@biologie.uni-muenchen.de>*

* *

The Organizing Committee is happy to invite all social insect researchers to participate in the 1st Central European Meeting of the IUSSI*, which will be held at the Abbey Frauenw^Ä on the Fraueninsel at the Lake Chiemsee, Bavaria, Germany, from the 9th to 11th of October, 2009. The 3rd Myrmecological meeting will be held at the same location from October 8th to 10th and participants are invited to attend both meetings.

Program

The scientific program for the Myrmecological Meeting will start on Thursday afternoon and end on Saturday, the IUSSI Meeting will commence on Friday afternoon and will end Sunday afternoon. Planned arrival days are October 8th or 9th, departure can take place October 10th to 12th. However, early arrival / late departure is possible. We will offer the possibility to visit the palace Herrenchiemsee on Sunday afternoon.

* *

Main Speakers

^Ä Abraham Hefetz, Tel Aviv, Israel

^Ä Tom Wenseleers, Leuven, Belgium

* *

Meeting place

The idyllic Abbey Frauenw^Ä is located on the island Fraueninsel in Lake Chiemsee, 70 km southeast of Munich. Beside its prime location, the Abbey Frauenw^Ä maintains a state-of-the art convention centre, which offers excellent, but inexpensive meeting facilities, including a lecture hall, the restaurant ^ÄKlosterwirt^Ä and single and double rooms starting from 22 per night. The island can be reached easily by ship (every 30min-1h, 25 min ride). We plan to organize a bus to facilitate transport from Munich airport / Central railway station to Prien, where the ships start.**

Participation

We would appreciate early registration per e-mail without obligation. You will receive additional information by e-mail or mail. For provisional registration, please send us the following information:

Name, address, email, IUSSI-Member/Non-Member/Student, length of stay and whether or not you plan to present results in an oral, poster or film presentation

To facilitate the participation of Eastern European and student researchers, we will offer reduced registration fees for these groups. **

**

– Prof. Dr. Susanne Foitzik Department Biologie II Verhaltens^ÄLudwig-Maximilians-Universit^Ät M^Ä₄nchen Gro^Ähaderner Str. 2 D - 82152 Planegg / Martinsried Germany

Phone: + 49 89 / 2180 74 209 Fax: + 49 89 / 2180 74 221 e-mail: foitzik@zi.biologie.uni-muenchen.de

Susanne Foitzik <foitzik@zi.biologie.uni-muenchen.de>

Paris SYSTEMA NATURAE 250 Aug26-27

SYSTEMA NATURAE 250

26-27 August 2008, Paris, France

A symposium celebrating 250 years of zoological nomenclature, starting with the publication of the 10th edition of Linnaeus's *Systema Naturae* on January 1st 1758, has been organised by the secretariat of the International Commission on Zoological Nomenclature.

Systema Naturae 250 runs concurrently with the 20th International Congress of Zoology in Paris, 26-29 August, 2008 (<http://icz2008.snv.jussieu.fr/-program.htm>), and will have its plenary session on 26 August 2 pm - 6 pm. This will include Prof E.O. Wilson's plenary lecture 'The Linnaean Ark', and the presentation, by Professor Wilson, of the Sherborn award for outstanding service to biodiversity informatics to Professor Alessandro Minelli. The symposium flyer can be found here, with details of all speakers:

http://www.iczn.org/Systema_Naturae_250_A5_amended.pdf

Themes covered by the meeting will include the evolution of zoological nomenclature over the past 250 years, the future of animal taxonomy, web publication of taxonomic work, including changes to the Code, copyright issues, and the Encyclopedia of Life. All papers by invited speakers will be published in a commemorative volume *Systema Naturae 250 The Linnaean Ark*. This symposium represents a key opportunity to discuss all of the above issues.

Because the symposium is part of the 20th ICZ, registration is necessary, and possible at:

<http://www.alphavisa.com/icz2008/registration.php>

The fee includes lunch for all four days of the meeting as well as coffee breaks, the congress banquet on the 29th, participation in all scientific and poster sessions and of course all abstract and programme booklets, bags and other material. We look forward to seeing you in Paris!

Ellinor Michel (Executive Secretary, ICZN) & Andrew Polaszek (former ICZN Executive Secretary)

July 2008

ICZN-EM <iczn-em@nhm.ac.uk>

2009 is the 200th birthday of Charles Darwin and the 150th anniversary of the publication of the *Origin of Species*, and therefore should be an important year for ASM Division R - Evolutionary & Genomic Microbiology. I invite everyone to consider proposing a symposium. Any topic related to evolutionary and genomic microbiology can be considered. Topics that have been casually discussed include:

- The origin of bacterial species - Evolution of sex and recombination - The flexible genome in ecological adaptation - Microbial evolution in the human microbiome

Symposia are 2.5hrs in length with a maximum of five speakers. Speakers are reimbursed for some of their travel expenses (up to \$900 for US-based speakers and \$1200 for non-US speakers). Symposia conveners do not get any reimbursement unless they also present a talk. Meeting registration fees will be reimbursed for speakers who are not ASM members. Symposium proposals are first vetted by divisional officers (Paul Turner, Jennifer Wernegreen, and me for Division R), and forwarded to the Divisional Group for final review and selection.

The application process is fairly painless. A web form is available at: <http://gm.asm.org/session-proposal/-session-proposal.asp>. All proposals must be completed by Aug 18th.

I hope you will consider proposing a symposium, and look forward to seeing you in Philly next May.

All the best, David Guttman Chair, ASM Division R - Evolutionary & Genomic Microbiology

David S. Guttman Associate Professor Canada Research Chair in Comparative Genomics Director, Centre for the Analysis of Genome Evolution & Function Department of Cell & Systems Biology Department of Ecology & Evolutionary Biology University of Toronto Toronto, ON Canada

david.guttman@utoronto.ca

david.guttman@utoronto.ca

Philadelphia ASM May17-21

Dear EvolDir,

We are now planning symposia for the 109th American Society for Microbiology General Meeting to be held in Philadelphia, PA, May 17-21, 2009.

UBath Sex and asex Sep5

THE EVOLUTION OF SEX AND ASEXUAL REPRODUCTION

Genetics Society Autumn Meeting, University of Bath, UK, Sept. 5th 2008

Scientific organisers: Laurence Hurst (Bath) and Roger

Butlin (Sheffield)

To accompany the presentation of 2008 Mendel Lecture by Professor Matthew Meselson and the 2008 Balfour Lecture by Daven Presgraves, The Genetics Society is organizing a one day conference on THE EVOLUTION OF SEX AND ASEXUAL REPRODUCTION. This will be held at the University of Bath, UK on Friday 5th September.

While the maintenance of sex and recombination remains an intellectual challenge, the long term persistence of some asexuals is equally puzzling. What if anything can be learnt about the former issues by studying the latter and vice versa? There are multiple contrasting approaches to these problems: theoretical versus empirical approaches, genetical versus ecological explanations, field versus laboratory systems. This meeting will bring together all of these strands in current research.

For more details and registration go to: <http://www.genetics.org.uk/> autumn.2008,one_day_meeting

Speakers:

Christina Burch (North Carolina, USA)

Jukka Jokela (Zurich, Switzerland)

Peter Keightley (Edinburgh, UK)

Ryszard Korona (Krakow, Poland)

Dunja Lamatsch (Mondsee, Austria)

Thomas Lenormand (Montpellier, France)

Mike Lynch (Indiana, USA)

Stefan Scheu (Darmstadt, Germany)

Featuring:

2008 Mendel Medal winner, Matthew Meselson (Harvard, USA)

2008 Balfour Lecture by Daven Presgraves (Rochester, New York)

Laurence D. Hurst Royal Society Wolfson Research Merit Award Holder Professor of Evolutionary Genetics Department of Biology and Biochemistry University of Bath Bath Somerset, UK BA2 7AY

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Laurence Hurst <l.d.hurst@bath.ac.uk>

UCaliforniaIrvine MEEGID IX

Oct30-Nov1

MEEGID IX University of California at Irvine, 30th October-1st November 2008

PLEASE CIRCULATE

It is our pleasure to announce officially that the 9th International Meeting "Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases" (MEEGID IX), will be held at UC Irvine, California.

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

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

Confirmed Speakers

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

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

Koussay Dellagi (Centre for Research and Surveillance of Emerging Diseases in the Indian Ocean). Chikungunya epidemics

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

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

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

Austin Hugues (University of South Carolina,

Columbia) The Importance of Purifying Selection in Pathogen Evolution

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

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

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

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

Michel Tibayrenc (IRD, Bangkok, Thailand): Integrated evolutionary epidemiology: where are we now?

Nathan Wolfe (UC Los Angeles): Viral forecasting

The MEEGID meetings are organized in synergy with the new journal *Infection, Genetics and Evolution* (Elsevier; <http://www.elsevier.com/locate/meegid>), covering the same scientific topic. Launched only 6 years ago, *Infection, Genetics and Evolution* is now published with six issues per year, and has been indexed by Medline and Index Medicus, starting from the first issue. It has been quoted 3.5/5.0 ("very good") by the US National Library of Medicine. It is now covered by ISI and the official impact factor for 2007 is 2.407 (ISI Web of knowledge).

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

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

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

to *Infection, Genetics and Evolution*.

The abstract submission deadline is the 30th September 2008.

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

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

— / —

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>

UCrete Zoogeography Sep22-26

The Hellenic Zoological Society and the Natural History Museum of Crete (NHMC) University of Crete will organize the 11th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions/. The Congress will take place at the new permanent exhibition halls of the NHMC (Irakleio, Crete, Greece) between the 22nd and the 26th of September, 2009.

The congress' scope includes **all issues** related to the animal systematic, phylogeny, phylogeography, and ecology in the eastern Mediterranean region. Research concerning all aspects of animal biodiversity (terrestrial, subterranean, freshwater and marine) within a geographical region that includes the Balkan and Italian peninsulas, Asia Minor and Anatolia, as well as the Near East and the Mediterranean coasts of north-eastern Africa are welcome. The official language of the 11th ICZEGAR will be English.

Experience gained from the 10 previous successful congresses of this series during the last 33 years has shown that the meeting can become an important forum for contact and information exchange between scientists working on a wide range of subjects at a region with very high biodiversity. Participants will have the opportunity to discuss and collaborate on many basic and applied research subjects, such as conservation biology, biogeography, fisheries, population ecology, phylogenetics etc.

News will be regularly posted in the web address

<http://www.nhmc.uoc.gr/iczegar11> so we encourage you to visit this web page regularly for further information. Communication via e-mail is strongly encouraged.

Local Organizing Committee

Prof. Moysis Mylonas (Department of Biology and Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

Dr. Petros Lymberakis (Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

Dr. Apostolos Trichas (Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

Dr. Katerina Vardinogiannis (Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

Dr. Katerina Voreadou (Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

Dr. Charalampos Fassoulas (Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

***Dr. Nikos Poulakakis (Department of Biology and Natural History Museum of Crete, University of Crete, GR-71409 Irakleio, Crete, Greece).

Prof. Karakassis I. (Department of Biology, University of Crete, GR-71409 Irakleio, Crete, Greece).

Dr. Antonios Magoulas (Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Thalassocosmos, Gournes Pediados, GR-71003 Irakleio, Crete, Greece)

Dr. Dimitrios Kollaros (Department of Floriculture and Greenhouse Crops, School of Agricultural Technology, Technological Educational Institute of Crete, GR-71004 Irakleio, Crete, Greece)

/**to whom correspondence*/

l1iczegar <l1iczegar@nhmc.uoc.gr>

UGeorgia WeedAdaptation Sep11-13

This is just a reminder that early registration for the 'Agricultural Weeds: Bridging the gap between evolutionary ecology and crop sciences' conference at the University of Georgia closes on August 1st, 2008. The

registration fee increases from \$150 to \$200 after that date. Note that this fee includes facilities and food from dinner Sept 11 until lunch Sept 13th.

Meeting details along with a list of the speakers and talk titles are available at the following web address:

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

jmburke@uga.edu jmburke@uga.edu

UGeorgia WeedEvolution when abstracts

Abstracts for post-doc and grad student travel awards to the conference "Agricultural Weeds: Bridging the gap between evolutionary ecology and crop sciences" to be held at the University of Georgia, Athens GA are due by July 10th. Please send a 200-word abstract to gbaucum@uga.edu to be considered.

See the following link for more details: <http://www.plantbio.uga.edu/weeds> – Regina S. Baucom Dept of Genetics Davison Life Sciences University of Georgia Athens, GA 30602 (706) 542-9729 <http://gbaucum.myweb.uga.edu> gina.baucom@gmail.com

URostock CrustaceanPhylogenetics DeadlineExtension

Advances in Crustacean Phylogenetics Symposium deadline extension

Dear colleagues, Please allow us to remind you, that you are all invited to participate in the Advances in Crustacean Phylogenetics International Symposium taking place in Rostock this autumn.

Hosted by our 589-year old University of Rostock, and with 25 high profile international experts invited to share their knowledge on Crustacean Phylogenetics, we feel confident that the symposium will be both interesting and provide new insights for all of us.

We have decided to extend the registration deadline to 31st July 2008, so that even more of you will be able to join us.

Please note that the deadline applies both to payments as well as poster abstract submissions.

For more information, please visit our home page or send an e-mail to ACP08@web.de

< http://www.biologie.uni-rostock.de/zoologie/-aqp_home.htm >

We look forward to seeing you in Rostock!

The ACP 2008 organizing team: Stefan Richter, Christian Wirkner, Ole Sten Møller

Universität Rostock, Allgemeine & Spezielle Zoologie
Universitätsplatz 2, D-18055 Rostock, Germany Phone
+49 (0)381 498-6261 FAX +49 (0)381 498-6262

osmoller@snm.ku.dk

USheffield Speciation Sep15-18

SYMPOSIUM: CHALLENGES IN SPECIATION RESEARCH Graduate students and postdoctoral scientists interested in the mechanisms of speciation are invited to a symposium organised by the SPECIATION Initial Training Network (see www.speciation.group.shef.ac.uk/itn). The meeting will be held at the University of Sheffield, England. The core of this meeting will be a series of talks on current challenges in speciation research, followed by discussion sessions. Invited speakers for these sessions are:

Chris Jiggins, University of Cambridge Wilfried Haerty,

McMaster University Tracey Chapman, University of East Anglia Ulf Dieckmann, International Institute of Applied Systems Analysis Carole Smadja, University of Sheffield Martine Maan, University of Texas Christian Lexer, Royal Botanic Gardens, Kew

There will also be talks by Network Participants and delegates will be invited to present posters. The meeting will begin at 2 pm on Monday, Sept. 15th (lunch will be provided from 12) and end after breakfast on Thursday Sept. 18th.

The number of participants is limited to 80. The registration fee will be 225 UK pounds. Registration costs cover accomodation and meals, including a Conference Dinner on September 17th. The ITN has funds to cover the registration of costs of up to 30 participants from outside the Network. If you would like to attend the symposium, please email Rhonda Snook (r.snook@sheffield.ac.uk) with subject heading of "speciation symposium" for a booking form. Registration ends August 15th.

TRAINING: SPECIATION PhD STUDENTSHIPS AVAILABLE The overall aim of this Network is to train 9 young scientists to PhD level in the biological disciplines needed to understand the evolutionary origin of biological diversity and is funded by the European Union. Positions are still open and we encourage interested students to apply. Details of the projects available can be found at www.speciation.group.shef.ac.uk/itn/-Project_descriptions.pdf along with details for applying. This is an exciting opportunity for cutting edge training on topics in Speciation.

Rhonda R Snook Senior Lecturer Department of Animal and Plant Sciences University of Sheffield Sheffield S10 2TN UK Tel (+44) (0)114 222 0126 Fax (+44) (0)114 222 0002 www.shef.ac.uk/aps

Rhonda Snook <r.snook@sheffield.ac.uk>

GradStudentPositions

Dublin BryophyteConservation	12	again	13
EC MarieCurie 13PhD 2PostDoc EvolutionaryBiol	12	EstonianU ConservationGenetics	14
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INRA France RyegrassEvolution	16	UWuerzburg ComputationalEvolBiol	22
MarieCurie 9 Speciation	17	UWyoming MolecularEvolution	23
UAdelaide AncientDNA	64	UZurich PlantHybridization	23
UAmsterdam CropPopulationGenetics	18	UZurich SystemsBiologyOnEcosystems	23
UMunich 2 EvolutionaryGenomics	20	WSL Switzerland MolEvolution	24
UNaples PlantEvolutionaryBiol	20		
UNeuchatel PlantEvolutionaryBiol	21		

Dublin BryophyteConservation

PhD Studentship Conservation and monitoring of legally protected and threatened bryophyte species in Ireland. National Botanic Gardens, Glasnevin and Trinity College, Dublin. Ireland has one of the richest bryofloras in Europe, with over 50% of the European bryoflora represented. The target species for this project are bryophyte species identified as being of current conservation concern in Ireland. The list includes proposed Red Data species and species listed in national legislation such as the FPO (Flora Protection Order Statutory Instrument No. 94 of 1999). The aims of this fully funded project are to contribute to the conservation management of these species by assessing clonal growth, reproduction and population differentiation. This will require the development of appropriate field monitoring methods, site characterization, assessment of population sizes, use of molecular markers to provide population genetic information, and the development of conservation management guidelines. The research will be co-supervised by Dr Noeleen Smyth (National Botanic Garden, Glasnevin) and Dr Daniel Kelly (Botany Department, Trinity College Dublin). Conditions of the award: Applicants should have a first or upper second class primary degree, or an MSc, in an appropriate discipline (Botany, Environmental Science). Familiarity with molecular techniques, field survey work, an ability to work in detail with small specimens and a full, clean driver's licence are all highly desirable, as well as a capacity for both individual research and intergration into team work. The starting date for the position is October 2008. Amount of the award: Successful candidates will receive a stipend of 17,000 per year, with annual increment, for up to three years. Fees for postgraduate students from the EU will be fully covered by the project. There will be opportunities to earn additional money through teaching and demonstrating on undergraduate courses and invigilating examinations. Application procedure: submit a

current CV, a letter containing a statement of interest, and the names and contact details of two referees to Dr N. Smyth (National Botanic Garden, Glasnevin, Dublin 9, Ireland. Email: noeleen.smyth@opw.ie.

Closing Date: 30th August 2008.

colin.kelleher@gmail.com

EC MarieCurie 13PhD 2PostDoc EvolutionaryBiol

Dear Brian,

the whole EU training site is conceived from an evolutionary biology point of view. Notwithstanding there are also a few non biologist-positions in it. Thank you in advance Joachim

Prof. Dr. Joachim Burger

Institut für Anthropologie AG Palaeogenetik Johannes Gutenberg-Universität SBII - 2. Stock - Raum 02-333 Colonel Kleinmann-Weg 2 D-55128 Mainz Deutschland / Germany

Tel: +49 (0) 6131 392 4489 Fax: +49 (0) 6131 392 5132

jburger@uni-mainz.de

<http://www.uni-mainz.de/FB/Biologie/-Anthropologie/MolA/Deutsch/Home/Home.html>

Here is the advert:

EC Marie Curie International Training Network LeCHE Two 2 year post doctoral positions and 13 PhD positions (Archaeology/Evolution/Genetics/Computer Modelling) to investigate the expansion of Dairying in Neolithic Europe

2 Post Doctoral Projects (2 years) 1 Dairying, the archaeological context and Site coordination, Matthew Collins, University of York, UK,

mc80@york.ac.uk 2 Database management Reiss-Engelhorn Museum Mannheim, Germany, wilfried.rosendahl@mannheim.de (starts 2009)

13 PhD Projects (3 years) 1 Archaeozoology of early dairying in Neolithic Europe. Jean-Denis Vigne, CNRS, archaeozoology lab at the National Museum of Natural History, Paris, France, vigne@mnhn.fr

2 Prehistoric Archaeology: Examination of the material culture involved in the production, processing and consumption of dairy products, focusing on the ceramic evidence. Friedrich Lüth, Römisch-Germanische Kommission, Frankfurt a. M., Germany, lueth@rgk.dainst.de

3 Human molecular genetics: Sequence and haplotype characterisation of the upstream lactase gene enhancer, in European and peri-European populations, including examination of lactase persistence phenotype-genotype relationship, and functional aspects. Dallas Swallow, University College London, UK, in collaboration with Jesper, Troelsen, Copenhagen and Mark Thomas, UCL, d.swallow@ucl.ac.uk

4 Palaeogenetic detection of genetic markers associated with milk consumption from human archaeological skeletons. Joachim Burger, Palaeogenetics Group, Mainz University, Germany, joachim@palaeome.org

5 Genomic diversity in domestic cattle; domestication and the origins of milking. Dan Bradley, Smurfit Institute of Genetics, Trinity College Dublin, Ireland, dbradley@tcd.ie

6 Palaeogenetics: Adapting massive SNPing technology to ancient material, and to use the techniques to find co-selective traits in human and cattle remains. Anders Götherström, Evolutionary Biology, Uppsala, Sweden, anders.gotherstrom@ebc.uu.se

7 Lipid biomarker and isotope chemistry: Regional and chronological trends in milk use in prehistoric Europe traced through organic residues preserved in pottery vessels. Richard Evershed, School of Chemistry, University of Bristol, UK, r.p.evershed@bristol.ac.uk

8 Biochemistry: An analytical project to develop novel strategies to recover information from ancient proteins (pottery / bone); Matthew Collins / Oliver Craig, University of York, UK, mc80@york.ac.uk; olcraig@gmail.com

9 Palaeogenetics: Characterising the long term survival of milk-derived DNA in archaeological pottery, and using it to investigate the spread of domestication, Tom Gilbert, Biological Institute, University of Copenhagen, Denmark, mtgilbert@gmail.com

10 Isotope chemistry: Investigating human milk con-

sumption using bone isotope chemistry. Robert Hedges, Research Laboratory for Archaeology, University of Oxford, UK, robert.hedges@rlaha.ox.ac.uk

11 Isotope chemistry: To determine weaning age and child survival in pre-agricultural and agricultural societies by the use of stable isotopes and osteological data; Kerstin Lidén, Department of archaeology and classical studies Archaeological research laboratory Stockholm University, Sweden, kerstin.liden@arklab.su.se

12 Modelling the spread of dairying and Lactase Persistence in Europe using computer simulations. Mark Thomas, Department of Genetics, Evolution and Environment, University College London, UK, m.thomas@ucl.ac.uk

13 Diagenesis: Development of effective tools to screen preservation of bone, in order to predict ancient DNA, protein, and stable isotope preservation. Henk Kars and Miranda Jans, Institute for Geo- and Bioarchaeology, VU University Amsterdam, NL, henk.kars@falw.vu.nl

Candidates must possess, or be expected to achieve, a good degree in a relevant subject and must meet EC eligibility requirements (see website below). Informal enquiries about the studentships can be made to: fp7milk@googlemail.com and to the individual project leaders as detailed on the website. Further details can be seen at <http://sites.google.com/a/palaeome.org/-leche/Home>; please obtain an application form from this website. Closing date 28th August 2008.

Joachim Burger <jburger@uni-mainz.de>

EC MarieCurie 13PhD 2PostDoc EvolutionaryBiol again

EC Marie Curie International Training Network LeCHE Two 2 year post doctoral positions and 13 PhD positions (Archaeology/Evolution/Genetics/Computer Modelling) to investigate the expansion of Dairying in Neolithic Europe

2 Post Doctoral Projects (2 years) 1 Dairying, the archaeological context and Site coordination, Matthew Collins, University of York, UK, mc80@york.ac.uk 2 Database management Reiss-Engelhorn Museum Mannheim, Germany, wilfried.rosendahl@mannheim.de (starts 2009)

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Candidates must possess, or be expected to achieve, a good degree in a relevant subject and must meet EC eligibility requirements (see website below). Informal enquiries about the studentships can be made to: fp7milk@googlegmail.com and to the individual project leaders as detailed on the website. Further details can be seen at <http://sites.google.com/a/palaeome.org/-leche/Home>; please obtain an application form from this website. Closing date 28th August 2008.

Joachim Burger <jburger@uni-mainz.de>

EstonianU ConservationGenetics

The Estonian University of Life Sciences in Tartu, Estonia invites applications for

PhD Studentship in conservation genetics

Duration: 2008-2012 (48 months)

Starting date: September 1, 2008

Scholarship: 6000 EEK (384) per month is available for citizens of the European Union.

Topic: Genetic diversity in artificially reproduced fish species in the Baltic Sea area: implications for conservation and sustainable management

A 4 year PhD-position is available within the research area Conservation Genetics. The project will focus on genetic structure and diversity of several endangered and/or economically important fish species within and among different catchments in the Baltic Sea area which are artificially reproduced for stocking purposes

(e.g. (migratory and resident brown trout, European grayling, pikeperch, perch). The aim is to reveal the appropriate units for sustainable management and conservation.

We seek a highly motivated individual with good communication abilities and with capabilities to work independently and in team with others. Candidates should possess an MSc degree in genetics, molecular biology, fish biology, aquaculture or a related field, and should have a strong interest in using molecular methods to study key questions in conservation genetics and evolution.

This project will be supervised by Prof. Riho Gross, Department of Aquaculture, Institute of Veterinary Medicine and Animal Science, Estonian University of Life Sciences (<http://www.eau.ee/~lki/kalakasv/-index.htm>). For additional information, please check the web site of Doctoral School of Estonian University of Life Sciences (<http://www.emu.ee/141969>) and contact Dr. Riho Gross (E-mail: riho.gross@emu.ee) as soon as possible. Closing date for applications: August 15, 2008.

All PhD applicants must submit the following documents: “ Application form (available from <http://www.emu.ee/orb.aw/class=file/action=preview/id=376181/dok+avaldu+ingl.do> c) ” Letter of motivation (a short description of the planned project and studies, will be compiled together with the supervisor) “ A copy of the diploma and diploma supplement of the bachelor’s and master’s level or equivalent qualification in the original language ” Official translation of the diplomas (Bachelor and Master) and diploma supplements into English, translation certified “ Academic Qualification Certificate issued by the Estonian ENIC/NARIC Centre ” Curriculum vitae, incl. list of scientific publications “ Copy of the identification document and the residence permit (if existing) ” one photo (3x4 cm)

Tartu, with its population of 101,246 is the second largest city of Estonia, lying 185 kilometres south of Tallinn, the capital of Estonia. Tartu is the centre of Southern Estonia and carries the title of ‘the city of students’ as it hosts two universities, the University of Tartu and the Estonian University of Life Sciences. For more information, please visit http://www.tartu.ee/?lang_id=2 Riho Gross <Riho.Gross@emu.ee>

ETH Zurich FungalEvolution

PhD position in Fungal Evolution

A 3-year PhD position is available at the Forest Pathology & Dendrology Group, Institute of Integrative Biology, ETH Zürich, to study the influence of genetic diversity and temperature on the fungal root endophyte *Phialocephala fortinii* s.l. Our study organism is a dominant root colonizer in conifer forests and operates across a wide range of the symbiotic continuum, ranging from parasitism to mutualism. The project seeks to understand the role of the genetic diversity of *P. fortinii* s.l. in shaping host communities in a changing world. The work includes inoculation experiments in microcosms, virulence assessments and molecular studies.

The applicant is expected to hold an University degree in Natural Sciences (environmental sciences, environmental microbiology, evolutionary biology, experimental mycology, phytopathology or a related discipline, ideally with good background in molecular biology and statistics) which allows entering a PhD program, and very good organizational, analytical and writing skills. Applicants should submit a letter that summarizes motivation, interests and relevant experience, a cv including undergraduate and masters/diploma transcripts, and contact information for 2-3 references (all as a single pdf) to: ottmar.holdenrieder@env.ethz.ch

Ottmar Holdenrieder

ETH Zürich Prof. Dr. Ottmar Holdenrieder Forest Pathology & Dendrology Institute of Integrative Biology (IBZ) Universitätstr.16

CH-8092 Zürich

Switzerland

Tel. +41-44-632 32 01

Fax +41-44-632 13 80

ottmar.holdenrieder@env.ethz.ch

http://www.forestpathology.ethz.ch/index_EN

Ottmar

Holdenrieder

<ottmar.holdenrieder@env.ethz.ch>

Frankfurt PlantSystematicsEvolution

The Department of Botany and Molecular Evolution at the Senckenberg Research Institute in Frankfurt/Main (Germany) invites applications for a

PhD-Position in Phylogeny and Evolution (Ref. DGF ZI 557/7-1)

within the project "Cenozoic diversification in the Bromelioideae (Bromeliaceae): character evolution and climate change", funded by the German Science Foundation (DFG).

The candidate will investigate the phylogeny of Bromelioideae (Bromeliaceae) with molecular methods, specifically DNA-sequencing of nuclear markers. The phylogenies are intended to reconstruct 1) character evolution within the subfamily, 2) historical biogeography, 3) date evolutionary processes, and 4) analyse the data in relation to climate change.

The applicant must have a diploma or master degree in biology/botany and have experience with the standard methods of molecular systematics and reconstruction of phylogenies. Experience in the reconstruction of character evolution and in biogeographic analysis are highly desirable. In addition, the applicant should be competent in written and spoken English and enjoy working in an international and interdisciplinary team. The applicant will also work together with the research field "Evolution and Climate" of the research center "Biodiversity and climate". A participation in university teaching (max. 2 SWS) is expected.

Salary and benefits are according to a public service position in Germany (BAT IIa/2).

The Research Institute Senckenberg advocates gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference.

The contract shall start as soon as possible and will initially be restricted to 2 years. A prolongation for 1 year is possible. The duty station will be Frankfurt am Main, Germany.

Please apply by sending your application preferably digitally by e-mail or by mail, including a letter outlining your suitability for the post, and detailed CV, contact details of 2 referees, and a copy of your diploma-

thesis and/or other exams until September 15, 2008 to Prof. Dr. G. Zizka, Head of the Department Botany and Molecular Evolution, Research Institute Senckenberg and Goethe-University Frankfurt/Main Senckenberganlage 25, D-60325 Frankfurt am Main, Germany. E-mail: georg.zizka@senckenberg.de

For further enquiries please contact Dr. Katharina Schulte E-mail: Katharina.Schulte@senckenberg.de, phone: ++49 +69 970751184

Dr. Katharina Schulte

Abt. Botanik & molekulare Evolutionsforschung
Forschungsinstitut Senckenberg und J.W. Goethe-Universität Senckenberganlage 25 60325 Frankfurt/Main

Tel: 0049-(0)69-97075-1184 Fax: 0049-(0)69-97075-1137 Mail: katharina.schulte@senckenberg.de <http://www.senckenberg.de>

Katharina Schulte <katharina.schulte@senckenberg.de>

INRA France RyegrassEvolution

English below:

Proposition de thèse financée à l'INRA de Lusignan dans l'Unité de recherche pluridisciplinaire prairies et plantes fourragères.

Rôle de la sélection et de la plasticité phénotypique dans l'évolution d'une population hétérogène : le cas d'un mini peuplement de Ray-Grass.

La thématique de la thèse couvre les questions suivantes : Quels sont les rôles respectifs de la sélection et de la plasticité phénotypique dans les processus évolution? Comment la plasticité affecte-t-elle l'intensité et la force de la sélection ? Varie-t-elle entre génotypes ? Est-elle susceptible d'être elle-même sélectionnée ?

A l'aide d'une population F2 de Ray grass Anglais nous identifierons des QTLs de caractères impliqués dans la réponse aux pressions de sélection et déterminerons comment évoluent les fréquences alléliques à ces marqueurs et marqueurs neutres. Les concepts et modèles de la génétique des populations permettront de comprendre et prévoir l'évolution du système.

Le dispositif sur lequel le thésard devra mener des mesures phénotypiques et moléculaires est en place en

milieu semi-controlé depuis une année.

Le thésard devra avoir de bonnes connaissances en biologie évolutive, génétique des populations et génétique quantitative. L'expérience et le goût pour les mesures morphologiques et la maîtrise des outils de biologie moléculaire sont nécessaires.

Le début de la thèse est prévu pour nov-déc 2008. Les candidatures (CV, lettre de motivation, 2 personnes référentes) sont à déposer par mail à isabelle.litrico@lusignan.inra.fr

<mailto:isabelle.litrico@lusignan.inra.fr> et

philippe.barre@lusignan.inra.fr

<mailto:philippe.barre@lusignan.inra.fr>

Contacts :

Isabelle Litrico URP3F INRA Route de Saintes 86600 Lusignan isabelle.litrico@lusignan.inra.fr
mailto:isabelle.litrico@lusignan.inra.fr

05 49 55 61 48

Philippe Barre URP3F INRA Route de Saintes 86600 Lusignan philippe.barre@lusignan.inra.fr
<mailto:isabelle.litrico@lusignan.inra.fr>

05 49 55 61 16

PhD thesis at INRA Poitou-Charentes France in the research unit on meadow and forage crops (URP3F). Subject: Selection versus phenotypic plasticity in the evolution of heterogeneous populations: case study of a perennial ryegrass sward. The thematic includes the following questions: - What are the specific roles of selection and phenotypic plasticity in evolution processes? - How plasticity affects the intensity of selection? - Is there a variability of plasticity between genotypes? - Could plasticity be subject to selection? Using a F2 population of perennial ryegrass (*Lolium perenne* L.) which maximizes the leaf length diversity, QTLs of traits involved in the response to selection pressure will be identified. Allelic frequencies for selected markers (under QTLs) and neutral markers will be followed. Concepts and models of population genetics will be used to understand and predict the evolution of the population. The experiment was started a year ago. The PhD student will perform phenotypic observations and molecular work as well as data analyses and modeling. The skills required include good knowledge in evolutionary biology, population genetics and quantitative genetics. Practices in morphological measurements and in molecular biology are necessary. The thesis should start in November or December 2008. Applications (CV, motivation letter and references) have

to be send by email at isabelle.litrico@lusignan.inra.fr and philippe.barre@lusignan.inra.fr.

Contacts: Isabelle Litrico URP3F
INRA Route de Saintes 86600 Lusignan France isabelle.litrico@lusignan.inra.fr
mailto:isabelle.litrico@lusignan.inra.fr> (33) 5 49 55 61 48

Philippe Barre URP3F INRA Route de Saintes 86600 Lusignan France philippe.barre@lusignan.inra.fr
mailto:isabelle.litrico@lusignan.inra.fr> (33) 5 49 55 61 16

Isabelle Litrico <isabelle.litrico@lusignan.inra.fr>

MarieCurie 9 Speciation

****Applications are still open for 9 fully-funded PhD studentships, open to all nationalities****

SPECIATION: A Marie Curie Initial Training Network

Nine 'Early-stage researcher' positions are expected to be available, for 3 years in each case, starting in the autumn of 2008. ESR will register for a PhD degree in one of the 4 partner universities: Sheffield (UK), Jyväskylä (Finland), Groningen (The Netherlands) and St Andrews (UK).

We anticipate projects in the following areas (lead supervisors):

- 1.1 Genetic incompatibilities and the evolution of reproductive barriers between allopatric *Drosophila* populations (Anneli Hoikkala/Maaria Kankare, Jyväskylä)
- 1.2 Genetics and genomics of prezygotic isolation in *Nasonia* (Leo Beukeboom/Louis van de Zande, Groningen)
- 1.3 Genetics of reproductive isolation in grasshopper hybrid zones (Roger Butlin, Sheffield)
- 2.1 The role of sexual selection in the evolution of reproductive isolation (Rhonda Snook, Sheffield)
- 2.2 Genetics and genomics of song preference in *Drosophila* (Mike Ritchie, St Andrews)
- 3.1 Modes of speciation and diversity patterns (Franjo Weissing/Leo Beukeboom, Groningen)
- 3.2 Variation in developmental mode and divergence in *Pygospio* and *Littorina* (Emily Knott, Jyväskylä)
- 3.3 The genetic basis of variation in reproductive diapause in *Drosophila montana* (Anneli Hoikkala/Maaria Kankare, Jyväskylä)
- 3.4 The genetic basis of variation in reproductive diapause in *Nasonia vitripennis* (Leo Beukeboom/Louis van de Zande, Groningen)

For further information and details of how to ap-

ply, please see <http://speciation.group.shef.ac.uk/itn> or contact the Coordinator, Roger Butlin (r.k.butlin@sheffield.ac.uk)

Roger K Butlin Professor of Evolutionary Biology

Animal and Plant Sciences University of Sheffield Western Bank Sheffield S10 2TN UK

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

r.k.butlin@sheffield.ac.uk

UAdelaide AncientDNA

Developing new methods to retrieve and analyse preserved genetic information for forensics, archaeology and ancient DNA.

Technical Officer Australian Centre for Ancient DNA (ACAD) School of Earth and Environmental Sciences

Job Reference Number: 14105

For an Australian Research Council (ARC) funded project to research and develop revolutionary new methods to extract and characterise DNA from a range of unusual ancient samples including ancient bones and teeth, sunken ship timbers, stone tools, and sediments. The project is an ARC LINKAGE collaboration with the National Geographic Society, Australian Federal Police, and Forensics South Australia. The main aim of the project is to completely re-assess and re-design current approaches to ancient/damaged DNA characterisation from the ground up, and to develop and extend recent new approaches to PCR such as SPEX (Brotherton et al. NAR 2007), and genomic library construction.

We are looking for an experienced and efficient Technical Officer to provide support to the Senior Research Fellow working on this project. Your role will involve molecular biological work with ancient DNA from archaeological and forensic specimens, primarily using PCR, cloning, and sequencing. You will make use of the international quality ACAD facilities, and an extensive collection of >4,000 ancient samples from locations around the world covering the past 200,000 years. The research requires exacting standards of laboratory practice in order to minimise contamination, and work with irreplaceable samples.

You should have: o a PhD or equivalent work experience in general molecular biology o a strong background in nucleic acids research o the ability to work effectively

as part of a multi-disciplinary team o experience with computer based analyses of DNA sequences

Salary: (HEO5) \$50,070 - \$55,874 per annum.

Plus an employer superannuation contribution of 17% applies.

This fixed-term position is available immediately for a period of 2 years in the first instance with a possible extension. Adelaide University is one of the 'Group of 8' leading Universities in Australia, in a cosmopolitan city offering an outstanding quality of life, with excellent food and wine and a low cost of living.

Further information may be obtained from Dr Jeremy Austin jeremy.austin@adelaide.edu.au, Prof. Alan Cooper, alan.cooper@adelaide.edu.au, Dr Wolfgang Haak (wolfgang.haak@adelaide.edu.au), or Dr Kefei Chen (kefei.Chen@adelaide.edu.au).

Deadline: 15 August 2008

Your application must o include your résumé/Curriculum Vitae o address the selection criteria o quote the relevant reference number o include the names, addresses and/or email details of three referees

Email applications to alan.cooper@adelaide.edu.au or forward in duplicate to:

Maria Lekis School of Earth and Environmental Sciences The University of Adelaide South Australia 5005

–

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/acad/>
alan.cooper@adelaide.edu.au

UAmsterdam CropPopulationGenetics

Within the ERGO program of the Netherlands Organization for Scientific Research (NWO), we are looking for an enthusiastic

PhD student in crop population genetics (vacancy number 08-1036).

to work on the project

âPotential ecosystem effects of future GM crop introductions through establishment of crop/wild hybrids or feral populationsâ.

One aspect of Environmental Risk Assessments (ERA) of transgenic crops involves the introduction of the transgene in natural environments through outcrossing with a wild relative or through the establishment of feral populations. In the current project the likelihood of an expansion of hybrid/feral plants as well as the associated and potentially adverse effects on the ecosystem will be studied. The experimental systems are (i) hybrids between crop and wild lettuce (*Lactuca sativa* and *L. serriola*, resp.) as a model for crop/wild hybridisation, and (ii) *Brassica napus* as a model feral system. We specifically focus on abiotic stress related to salinity and drought.

Tasks The project focuses on experiments using different types of manipulations: changes to the local densities of plants, establishing new populations within and outside the current range, and creating experimental populations in âoasesâ where they are not exposed to the stress of the surrounding environment (no transgenic plants will be introduced to the field). The work involves designing experiments, selecting and creating experimental plots, collecting data, specifically on the impact of the experiment on other species (pollinators, herbivores) and statistical analyses of the results. Results will be published in peer-reviewed journals.

Requirements â Master in biology, with emphasis on population genetics, evolutionary biology or plant physiology â Good training in the planning, execution and statistical analysis of (field) experiments â Ability to work together in a research team â Driving license is recommended

Further information For additional information and project description, please contact: Dr. Danny Hooftman, d.a.p.hooftman@uva.nl, tel. +31 20 5257817, or Prof. dr. Peter van Tienderen, ph.vantienderen@uva.nl, tel. +31 20 5257896.

Appointment The appointment will be on a temporary basis for a maximum period of four years (18 months plus a further 30 months after a positive evaluation) and should lead to a dissertation (PhD thesis).

An educational plan will be drafted that includes attendance of courses and (international) meetings. PhD students are also expected to assist in teaching undergraduates. The salary is in accordance with the university regulations for academic personnel (Collective Labour Agreement) and will range from â-2,000. - (*firstyear*)uptoamaximumofâ-2,558. -

(*lastyear*)grosspermonth(*scaleP*).

Job application Applications should include a detailed CV including a list of publications, a motivation letter, and the names and contact addresses of two references from which information can be obtained. Please mark âstrictly confidentialâ and quote the vacancy number (08-1036) in the upper left-hand corner of the envelope.

Applications should be sent before August 25th 2008 to: Universiteit van Amsterdam, Faculty of Science â dept. PZ, attn: Drs. S.H.M. Jongerius, Kruislaan 404, 1098 SM Amsterdam, The Netherlands.

Applications can also be e-mailed to: application-science@uva.nl. Please quote the vacancy number (08-1036) in the subject field.

Universiteit van Amsterdam

The Universiteit van Amsterdam (UvA) is a university with an internationally acclaimed profile, located at the heart of the Dutch capital. As well as a world centre for business and research, Amsterdam is a hub of cultural and media activities. The Universiteit van Amsterdam is a member of the League of European Research Universities.

The Faculty of Science at the UvA is one of Europe's foremost institutions of higher education and research in its chosen fields of specialization. It plays an active role in international science networks and collaborates with universities and industry. The Faculty has approximately 2,000 students and 1,500 staff members spread over four departments and ten research institutes. Each institute has its own research programme, a substantial part of which is externally funded by the Netherlands Organization for Scientific Research (NWO), the Dutch government, the EU and various private enterprises.

The Institute of Biodiversity and Ecosystem Dynamics (IBED) is one of the ten research institutes of the Faculty of Science. IBED covers a wide range of subjects, in both fundamental and applied research. Our scientific studies aim at a better understanding of the dynamics of ecosystems at all relevant levels, from genes to climate change, using a truly multidisciplinary approach.

- D.A.P. Hooftman, Ph.D. Institute for Biodiversity and Ecosystem Dynamics, Universiteit van Amsterdam

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

UMunich 2 Evolutionary Genomics

PhD Student Positions - Evolutionary/Functional Genomics

Two PhD student positions in Evolutionary and Functional Genomics are available at the University of Munich. The students will join a collaborative research group studying natural selection in structured populations and be enrolled in the Munich Graduate School for Evolution, Ecology and Systematics (EESLMU). The specific projects are:

- 1) Selection on expression variation at the B4galnt2 gene in natural populations of house mice (Dr. John Baines). Variation in the tissue-specific expression pattern of B4galnt2, a glycosyltransferase, is associated with a phenotype in mice that closely resembles a common human bleeding disorder, von Willebrand disease. This project aims to understand the evolutionary forces governing this variation and will include a large-scale geographic survey of alleles conferring alternative expression patterns and an analysis of metagenomic samples from wild-caught mice.
- 2) Gene expression variation in natural populations of *Drosophila* (Dr. John Parsch). This project will use microarray analysis to investigate gene expression variation in *Drosophila melanogaster*, with particular focus on adaptive regulatory changes between ecologically differentiated populations. It will also include DNA sequence analysis and transgenic experiments to study the evolution of gene regulatory elements.

The University of Munich has a strong, interactive group in evolutionary biology, including theoreticians and experimentalists working on both plant and animal systems. We have an international group and the everyday working language is English. The Department of Biology is housed in the new, state-of-the-art BioCenter on the University of Munich High-Tech campus. More information is available on the web at:

<http://evol.bio.lmu.de/EvoGen.html> PhD students will receive a salary according to the German pay scale (E13/2 TV-L). Applicants should have a master's degree or equivalent in biology or a related field. In addition, laboratory experience in molecular biology and/or genetics is desired. Interested candidates should send a CV, statement of interest, and contact information of two potential referees as a single PDF file to:

baines@bio.lmu.de

Applications will be reviewed beginning August 15, 2008. The positions are expected to start on November 1, 2008.

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

John Parsch <parsch@zi.biologie.uni-muenchen.de>

UNaples Plant Evolutionary Biol

PHD POSITION IN PLANT EVOLUTIONARY BIOLOGY

A Ph.D. position in plant evolutionary Biology is available at the Dept. Structural and Functional Biology, University of Naples Federico II, Italy, with Dr. Salvatore Cozzolino to study speciation and reproductive isolation in Mediterranean orchids.

I am seeking a PhD candidate (3 yrs) with a strong interest in the evolution of reproductive isolation and speciation in plants. Our group is using orchids as a model system for ecological genetics and current research topics include hybridisation and introgression, habitat adaptation, reproductive isolation and speciation, mechanisms and consequences of specific pollinator attraction, genome evolution. For this PhD position two possible research projects are available. The two projects are embedded in a larger framework of evolutionary studies in Mediterranean orchids. For both projects, experience with experimental work and statistical analyses and the use and application of molecular methods to evolutionary problems are a must. One project will focus on the characterization of genes involved in species isolation by pollen-stigma interactions, by transcript profiling and functional study of candidate genes. For this project I am looking for one candidate with a strong background in molecular biology or biochemistry and plant developmental biology. The second project will investigate mechanisms and consequences of specific pollinator attraction in orchids species-pair, involving investigations on floral signals (scent), behavioural experiments, molecular analysis of hybrid zones with pollinators and plot experiments in the field. For this project, a background in evolutionary ecology and population genetics is desirable.

The Dept. Structural and Functional Biology (see < <http://www.dbsf.unina.it/> -> <http://www.dbsf.unina.it/>) host 40 academic

staff, a dozen of PostDoc, and 20 PhD students that investigate several biological topics and offers a supportive and stimulating environment, a state-of-the-art molecular labs, as well as climate chambers, greenhouses and common garden facilities. Naples has a large and very active research community and the University of Naples (www.unina.it) dealing with various aspects of organismal and molecular biology. The city also offers excellent opportunity for social life through active cultural programs and infrastructure, as well as an attractive surrounding including both sea and mountains in proximity. Funding is available for three years and we hope to appoint by October 2008. Candidates should have completed their Masters degree or equivalent (Diplom) in a relevant field and be very fluent in English. The closing date for applications is end August 2006. A letters of application, together with a full CV and the names of two referees should be sent by email to Dr Salvatore Cozzolino (cozzolin@unina.it)

Salvatore Cozzolino Dipartimento delle Scienze Biologiche Universita' di Napoli Federico II via Foria 223, I-80139 Napoli Italy

Salvatore Cozzolino Dipartimento delle Scienze Biologiche (Sezione di Biologia Vegetale) Universita' di Napoli Federico II via Foria 223, I-80139 Napoli Italy tel +39 081 2538555 2538529 fax +39 081 2538523

Salvatore Cozzolino <cozzolin@unina.it>

UNeuchatel PlantEvolutionaryBiol

PhD Position - Plant Evolutionary Ecology

Ecology and evolution of reproductive traits in a plant/pollinator-seed predator system

One PhD position is available at the Institute of Biology, University of Neuchâtel, starting August 1st, 2008 or later.

We investigate the reproductive ecologies and mutualism/antagonism between the plant *Silene latifolia* (Caryophyllaceae) and its seed predator and pollinator *Hadena bicruris* (Noctuidae). We combine field and greenhouse experiments with population genetics (microsatellite DNA) to investigate the evolution of reproductive and defense traits. The successful candidate will be able to design a project within this broad framework.

For research in our group see: http://www.unil.ch/dee/page7005_en.html The ideal applicant has a strong interest in evolutionary ecology and good background in experimental design and statistical analysis, microsatellites and/or fieldwork. Fluent English is required, as well as a MSc, Diploma Degree or equivalent in Ecology, Genetics or Evolutionary Biology.

Funding is for four years. This position entails a few hours/week of teaching assistantship during term time (botany practicals). The University of Neuchatel (<http://www.unine.ch>) offers excellent facilities, with other groups focussing on ecology, population genetics, behavioural and evolutionary ecology, and a national competence center in plant biology (http://www2.unine.ch/nccr/page7229_en.html).

Please send a CV, a copy of your degree, a summary of experience and research interests and the addresses of two referees with subject line «PhD application» to: giorgina.bernasconi@unine.ch

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

References:

Jolivet C., Bernasconi G., 2006. *Functional Ecology* 20(6), 966-972. Teixeira S., Bernasconi G., 2007. *Molecular Ecology* 16, 4370-9. Jolivet C., Bernasconi G., 2007. *Journal of Evolutionary Biology* 20, 1361-74. Teixeira S, Bernasconi G, 2008. *New Phytologist* 178, 223-456.

Giorgina Bernasconi <Giorgina.Bernasconi@unine.ch>

UPorto EvolutionaryBiology

PhD Students Proposals Selection of candidates for a PhD grant proposal to submit to the Portuguese Foundation for Science and Technology

We accept applicants for a PhD grant proposal to be submitted to the Portuguese Foundation for the Science and Technology under the following topics:

1. "A molecular genomic approach to unravel the evolution of natural toxins". Gene families, which encode toxins, are found in many marine animals (from deadly poisoning jellyfishes to sea snakes), yet there is limited understanding of their evolution at the nucleotide level and the evolutionary significance of their protein mutations. Understanding the evolution of ecological specialization is important for making inferences about

the origins of natural toxins biodiversity.

2. Genomic diversity of proto-eukaryotes symbiosis. Harvesting light to produce energy and oxygen (photosynthesis) is the signature of all land plants. This ability was co-opted from a precocious and ancient form of life known as cyanobacteria. The most widespread cyanobacterial symbiosis is that of plastids in eukaryotes that happened more than 2 billion years ago. However, much more recent episodes of symbioses occurred between cyanobacteria and eukaryotic hosts, both non-photosynthetic (from marine sponges to ascidians) and photosynthetic (from diatoms to the flowering plants) hosts. Characterizing the evolutionary mechanism underlying such genetic cooperation is fundamental to understanding the origin of genomic symbiosis.

3. Global phylogeny and biogeography of cyanobacteria species. It is much debated whether microorganisms are easily dispersed globally or whether they, like many macro-organisms, have historical biogeographies. Recent findings using faster evolving genetic markers in protozoa species revealed considerable genetic structure and suggested that protest biodiversity may be significantly higher than previously thought.

4. Genomic research on the chimerical origin of Eukaryotic genomes. Eukaryotic genomes are replete with genes of eubacterial ancestry, namely from the Cyanobacteria, the Proteobacteria, and the Thermoplasmatales. These signals correspond to distinct symbiotic partners involved in eukaryote evolution: plastids, mitochondria, and the elusive host lineage. Evaluating the evolutionary relationships between such ancient relationships is important for making inferences about the origins and diversification of life.

5. A genome-wide sequencing study to characterize genes responsible for the development and adaptation in Vertebrates. Major phenotypic changes in vertebrates (from mammals to fish), occurred by the evolution of various gene products over the last half billion years. Understanding the genetic basis of the diversification of development genes in vertebrates can provide fundamental biological insight about species evolution, ecological fitness, and genetic diseases.

The granted candidates will have a monthly salary of 980 euros and will develop their work at CIMAR, University of Porto, Portugal (<http://www.cimar.org/>). The candidates should have a B.S. or Graduation in Biology, Biochemistry or other related fields with a competitive score (16 out of 20, or 15 plus a Master degree) and should have a strong interest in developing research in Molecular Evolution, Genomics and Population Genetics.

The candidates should include: - Detailed curriculum vitae; - Scanned copy of the Graduation title (and Master title if applicable).

The applications should be submitted till 15 August 2008 by email to Dr Agostinho Antunes (aantunes@ncifcrf.gov)

Agostinho Antunes

Dr. Agostinho Antunes Geneticist Laboratory of Genomic Diversity - National Cancer Institute, Frederick, Maryland 21702-1201, USA; Tel: 301-846-1299 Fax: 301-846-6327 e-mail: aantunes@ncifcrf.gov

In Portugal: CIMAR, University of Porto Rua dos Braças, 177; 4050-123 Porto, Portugal; Tel: (351) 22 3401 813 Fax: (351) 22 3390 608

Agostinho Antunes <aantunes@ncifcrf.gov>

UWuerzburg ComputationalEvolBiol

PhD position available in the Computational Evolutionary Biology group at the Department of Bioinformatics of the University of Wuerzburg.

In a BMBF funded project, we want to compare the evolution of genomes with the development of languages. We want to address questions like the following: Why can the meaning of the word 'Augenblick' not be deduced from the words 'Auge' and 'Blick'? How does the function of two genes change, if they are fused? Why does nobody use the word 'unvorgreiflich' any longer? Is the rate of gene loss comparable to that of vanishing words? Are the differences between dialects in bavarian villages comparable to those in the genomes of different persons?

We are looking for a biologist with a strong background in bioinformatics or a bioinformatician. Experience in the analysis of genomic data is a plus. The candidate should have a general interest in evolutionary questions and should become acquainted with linguistics. Language data will be analysed in close collaboration with linguists from different institutes (University Würzburg, University Trier, Institut fuer deutsche Sprache Mannheim). As all language data are in german, strong command of german language is a requirement.

The position is funded by the BMBF for three years. Interested students should email their CV

and the e-mail addresses of two references to Joerg.Schultz@biozentrum.uni-wuerzburg.de For further information about the group, please visit the home page at http://www.biozentrum.uni-wuerzburg.de/-joerg_schultz.html or contact me directly.

– Internet Joerg.Schultz@biozentrum.uni-wuerzburg.de http://www.biozentrum.uni-wuerzburg.de/-joerg_schultz.html Address Bioinformatik, Biozentrum, Am Hubland D-97074 Universitaet Wuerzburg Tel +49 (0)931 888 4553 Fax +49 (0)931 888 4552

Joerg Schultz

Joerg Schultz <Joerg.Schultz@biozentrum.uni-wuerzburg.de>

UWyoming MolecularEvolution

There are several open Ph.D. positions in the Liberles Research Group, University of Wyoming (<http://www.wyomingbioinformatics.org/LiberlesGroup>). The group works at the interfaces of molecular evolution, comparative genomics, and structural bioinformatics. University of Wyoming lies in the Rocky Mountains and is an ideal location for students who also enjoy skiing, hiking, climbing, and other outdoor activities. The ideal candidate has a degree in biology or chemistry (physical) with experience in programming or statistics or a degree in physics, computer science or statistics with some formal coursework in biology. The group is an international research group with group members from Sweden, Russia, Pakistan, India, USA, Canada, and China. To apply, please send a CV, statement of research interests, and contact information for three letters of recommendation to liberles@uwyo.edu. Students from less well established universities outside North America and Europe are advised to also submit GRE scores to strengthen their applications.

David Liberles

David Liberles <liberles@uwyo.edu>

UZurich PlantHybridization

Ph.D. POSITION IN PLANT HYBRIDIZATION

DESCRIPTION: A Ph.D. position is available to join an on-going study on hybridization between distylous species of primroses (*Primula L.*). The study focuses on how the variation of floral traits typical of distyly affects the formation and establishment of hybrids. The funded position is available for a minimum of three years, extendable to a fourth year upon satisfactory performance.

DEADLINE: Applications will be reviewed until a suitable candidate is selected.

REQUIREMENTS: Bachelors or Masters degree in biology. Experience in the use and development of molecular markers and/or pollination biology strongly preferred. Good quantitative skills necessary.

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

HOW TO APPLY: Send in the following documents: 1) a two-page letter explaining why you are interested in this position and why you are qualified for it; 2) your University transcripts; 3) two letters from people who can comment on your qualifications for the position.

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

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

email: ContiElena@access.unizh.ch

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

UZurich SystemsBiologyOnEcosystems

PhD position at University of Zurich: Systems biology on ecosystems

The project is offered as an Interdisciplinary PhD (IPhD) Fellowship program of SystemsX.ch,

which is Swiss-wide network of systems biology (www.systemsx.ch). The project, entitled “Systems biology on ecosystems: exploring the mechanism of synchronized flowering by integrating molecular and modeling approaches ” is supervised by three groups: (1) Kentaro Shimizu, Evolutionary Functional Genomics, Institute of Plant Biology, University of Zurich (<http://botserv1.uzh.ch/home/shimizu/index.html>, <http://www.imcr.uzh.ch/systembio/shimizu.html>). (2) Akiko Satake, Theoretical Biology, Hokkaido University, Japan, as an international collaborator (<http://www.cris.hokudai.ac.jp/satake/en/index.html>, moved from EAWAG recently) (3) Andreas Wagner, Computational Biology and Bioinformatics, Department of Biochemistry, University of Zurich (<http://www.bioc.uzh.ch/wagner/>).

Self-organized synchrony between different biological components has been identified in many biological systems. Synchronized flowering in tropical rain forests, called “general flowering”, is considered one of the most mysterious and large-scale events in ecosystems. Tree samples will be collected in tropical rain forest in Malaysia and in temperate forest in Japan, and quantitative gene expression pattern regarding flowering is assayed by using the genomic information of a model species *Arabidopsis thaliana*. Based on those data, we will construct a network structure of genes that regulate flowering timing, and then develop a dynamic gene network model to predict the degree of synchrony in response to various extent of water-stress and nutrients. Ecological robustness of synchronous flowering against global warming will also be studied. A 454-type ultra-high throughput sequencer (deep sequencer) introduced recently in Functional Genomics Center Zurich (FGCZ, <http://www.fgcz.ethz.ch/>) will be exploited.

Comment: Diploma, Master or equivalent in biology, bioinformatics, ecology is preferred. This project requires both computer modeling and molecular experiments in order to analyze large-scale expression data. Experience in at least one of them, and strong motivation to learn another is preferred. Interdisciplinary training in MLS or PSC program of Life Science Zurich Graduate School (www.lifescience-graduateschool.ch/) is offered. In addition, SystemsX.ch (www.systemsx.ch) will provide courses.

Remarks: Please send your CV including a description of your practical experience, grades, your scientific interests, and the names and the contact address of two references in English, preferably by E-mail. The review of the applications will start in Aug 2008, and continues until the position is filled. The salary follows the regulation of Swiss National Foundation.

Contact: send your application both to shimizu@botinst.uzh.ch and to satake@cris.hokudai.ac.jp (you may receive automatic reply of absence, but the mail will be saved) Entrance upon: Sep or Oct 2008 Duration of appointment: 3 years planned

Prof. Dr. Kentaro K. Shimizu Evolutionary Functional Genomics Institute of Plant Biology University of Zurich Zollikerstrasse 107, CH-8008 Zurich Switzerland Phone +41-44-634-8247, 8244 FAX +41-44-634-8204 <http://botserv1.uzh.ch/home/shimizu/index.html> <http://www.ufsp.uzh.ch/systembio/> E-mail: shimizu@botinst.uzh.ch

shimizu@botinst.uzh.ch shimizu@botinst.uzh.ch

WSL Switzerland MolEvolution

WSL_Switzerland.
MolecularEvolution_PlantPathology

MolecularEvolution_PlantPathology

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 500 people work on topics related to the sustainable use and protection of the environment and on an integrated approach to handling natural hazards. The Phytopathology group of the Research Unit Ecological Genetics and Evolution is investigating fungus-virus interactions with the aim to develop biological control options for plant pathogens. For the project CCES-GEDIHAP “The role of genetic diversity in host-pathogen interactions in dynamic environments”, which involves eight research groups of the ETH Domain we are seeking a

PhD Student Molecular Evolution / Plant Pathology

You will investigate evolutionary processes in the interaction between the fungal tree pathogen *Cryphonectria parasitica* and its hyper-parasitic hypovirus CHV-1, seek to understand the relationships among genetic diversity, virulence and temperature in this pathosystem and publish your results in international journals. The project will involve field sampling along temperature gradients, laboratory experiments, and molecular-genetic analyses.

Your qualification: Master of Science with emphasis on ecological/evolutionary genetics, plant pathology or virology, experience with common genetic lab techniques and statistics, good English communication and writing skills, open-minded, innovative and motivated person-

ality.

Interested? Please send your complete application including photo, using reference number 528 to Mrs Monika Huber, Human Resources WSL, Zuercherstrasse 111, CH-8903 Birmensdorf. Switzerland. Dr. Daniel Rigling, tel. +41- (0)44 739 24 15, will be happy to answer any questions or offer further information. –

Dr. Daniel Rigling, Swiss Federal Research Institute WSL Ecological Genetics & Evolution CH-8903 Birmensdorf, Switzerland

Phone: ++41-44-739-2415 Fax: ++41-44-739-2215
 daniel.rigling@wsl.ch <http://www.wsl.ch>
 daniel.rigling@wsl.ch

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Bethesda Tech PopulationGenetics

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We are looking for a highly motivated individual (recent graduate) to work as a Postbac IRTA in the laboratory of Eric Green at the National Human Genome Research Institute at the National Institutes of Health (NHGRI/NIH, Bethesda MD).

The Postbaccalaureate IRTA program provides opportunities for recent college graduates to spend a year engaged in biomedical research at the NIH. U.S. citizens or permanent residents who have received a bachelor's

degree from an accredited U.S. college or university and who have held the degree for less than two years are eligible to apply.

The successful candidate will be involved in a number of projects related to genomics, human variation, and evolution. The ideal candidate should have significant programming experience, biological and/or statistical background, and an interest in human variation, population genetics, or evolutionary biology. Interested candidates should contact Aida Andres (andresa@mail.nih.gov) or Belen Hurle (hurleb@mail.nih.gov), and complete an application at the Postbac IRTA web page (<http://www.training.nih.gov/student/pre-irta/-previewpostbac.asp>). This includes a cover letter, cur-

riculum vitae, and three reference letters.

To learn more about NHGRI, please visit www.genome.gov. HHS and NIH are Equal Opportunity Employers.

The NIH is dedicated to building a diverse community in its training and employment programs.

Best, aida

Aida M Andres, PhD Visiting Fellow NHGRI, NIH 50 South Drive, Building 50, Room 5527 Bethesda, MD 20892 Tlf: 301 594 9207 Fax: 301 496 0474

CedarPointBiologicalStation AssociateDirector

Associate Director, Cedar Point Biological Station, University of Nebraska

Description of work: Coordination and supervision of all activities at or relating to the Cedar Point Biological Station. Candidates must have a commitment to work with students and be prepared to handle all aspects of the field station operation. Hands-on duties are part of the position. Significant daily effort in planning and supporting the summer programs in teaching and research (recruiting, logistics planning, and coordination), arranging housing/dining and facilities maintenance, arranging space for research projects, and managing a large natural area are expected. Supervision of full-time and temporary kitchen and maintenance personnel is included. The Associate Director develops fundraising programs to support facilities, teaching and projects, and implements new initiatives. The Associate Director must live at the Station during the active summer season and be based at Lincoln the remainder of the year. The station is located in Ogallala, in Western Nebraska <http://cedarpoint.unl.edu/> Map coordinates: 41.210745, -101.649988 on Google Maps. A successful candidate should demonstrate a strong motivation for contributing professionally to the teaching and/or research and/or outreach mission of the station.

Outreach could include leading field trips for classes and the public, developing and maintaining a dynamic docent program, and/or establishing a K-12 education and other non-traditional outreach programs. In addition the Associate Director will be actively engaged in fundraising supporting these programs. Research

could include any site based natural history, environmental or biological effort, especially focused on long-term data collection and developing funding to support these activities. Teaching could include teaching summer courses and/or the development of new initiatives in teaching.

Qualifications: MS required, Ph D preferred

Academic training in the life and/or environmental sciences and experience with field stations and/or field biology research and/or teaching field courses and/or public outreach. Significant experience in one or more of the following: environmental education, environmental research, nonprofit management, program development, resource management, science or environmental administration, or a related field. Ability to interact productively with students, station users, administrators and neighbors. Self-sufficiency. Excellent oral and written communication/presentation skills. Strong problem-solving skills, organizational skills and ability to plan, and direct others in the formation and implementation of programs. Computer skills (i.e. Word, Excel) required; database, GIS, and web design preferred. Experience in administration or budget management preferred.

Special Requirements: Altered work schedule, must be available on weekends, evenings and holidays during the summer, as needed. Must live on site (housing provided) from May until August and in Lincoln from August to May.

Application Process: Application deadline: August 15, 2008 Starting Date: October 1, 2008 Salary range: \$35,000 - \$45,000

To apply you need to submit the following on the UNL website: Application letter Resume / CV List of three references

<http://employment.unl.edu> Position number: 00006929 Requisition Number: 080587

For more information contact:

Johannes (Jean) Knops Director Cedar Point Biological Station & Associate Professor School of Biological Sciences University of Nebraska 348 Manter Hall Lincoln, NE 68588

Phone (402) 310-3904 Email: jknops2@unl.edu

cbrasil2@unl.edu cbrasil2@unl.edu

CSIC Spain EvolutionaryBiology

Tenured professorships in the CSIC, SPAIN.

202 tenured positions (Científicos titulares) have been opened in the Consejo Superior de Investigaciones Científicas (CSIC) in SPAIN. Those include jobs in different fields, including genomics, developmental biology, evolutionary biology, biodiversity, and phylogenetics, among others. Information about the process and positions can be found here:

<http://www.csic.es/sgrh/psf/08libre.htm> http://www.csic.es/sgrh/psf/doc/bases_comunes.pdf
<http://www.boe.es/boe/dias/2008/07/05/pdfs/A29632-29664.pdf> The first deadline to submit applications is the 26th of July. To apply you need to fill the form 790 that can be found here: <http://ips.060.es/managePrepareTasa.do?reqCode=solicitud>
 Include a CD with a PDF of the Curriculum Vitae.

Pay the exam fee (27,61 Euros) and provide copy of the receipt of payment. IBAN and bank account information to make the transfer can be found here: <http://www.csic.es/sgrh/psf/08libre.htm>, and in the Annex III included in the A29632-29664.pdf

The selective process usually takes place in November-December.

The CSIC is the largest public research body in Spain. Institutional information can be found here: <http://www.csic.es/index.do?lengua=en#> David R. Vieites

Museum of Vertebrate Zoology and Department of Integrative Biology 3101 Valley Life Sciences Bldg. University of California, Berkeley, 94720-3160, California, USA Phone: 510 6439472 e-mail: vieites@berkeley.edu web: <http://vieites.berkeley.edu> David Vieites <vieites@berkeley.edu>

DurhamU ResTech MolecularEvolution

Update: This position will now run for 28 months, with good prospects for further extension.

Research Technician

A research technician post is available in the Molecular Evolution Group at Durham University. We conduct research on population and evolutionary genetics, and the interaction between ecological and evolutionary processes. This post arises out of ongoing research on the evolution of biodiversity among fish and invertebrate species in the North Atlantic.

Essential skills include the construction of genomic libraries in plasmids for the development of microsatellite DNA markers, and a general understanding of molecular biology techniques associated with work in molecular ecology. In addition to cloning associated with marker development, the job will involve basic database management, assistance with lab management, PCR amplification and electrophoresis.

The applicant should have an undergraduate degree in an appropriate subject and relevant experience. Post-graduate degrees are desirable, but not required.

The job will begin Sept 1st 2008, and is for 28 months in the first instance with good prospects for extension. Salary is at the grade 4, point 3 level.

To apply please email your c.v. and two letters of reference (sent direct from referees) to:

Prof. A. Rus Hoelzel School of Biological and Biomedical Sciences Durham University, South Road, Durham, DH1 3LE, UK a.r.hoelzel@dur.ac.uk

Enquiries welcome; please send applications to reach me by 15 July 2008

a.r.hoelzel@durham.ac.uk

DurhamU ResTech MolEvolution

Research Technician

A research technician post is available in the Molecular Ecology Group at Durham University. We conduct research on population and evolutionary genetics, and the interaction between ecological and evolutionary processes. This post arises out of ongoing research on the evolution of biodiversity among fish and invertebrate species in the North Atlantic.

Essential skills include the construction of genomic libraries in plasmids for the development of microsatellite DNA markers, and a general understanding of molecular biology techniques associated with work in molecular ecology. In addition to cloning associated with marker development, the job will involve basic database

management, assistance with lab management, PCR amplification and electrophoresis.

The applicant should have an undergraduate degree in an appropriate subject and relevant experience. Post-graduate degrees are desirable, but not required.

The job will begin Sept 1st 2008, and is for 16 months in the first instance with good prospects for extension. Salary is at the grade 4, point 3 level.

To apply please email your c.v. and two letters of reference (sent direct from referees) to:

Prof. A. Rus Hoelzel School of Biological and Biomedical Sciences Durham University, South Road, Durham, DH1 3LE, UK a.r.hoelzel@dur.ac.uk

Enquiries welcome; please send applications to reach me by 15 July 2008

a.r.hoelzel@durham.ac.uk

GettysburgCollege EvolMicrobialGeneticist

Hi all

Although the person will principally teach genetics and microbiology, we would be very interested in someone with an evolutionary perspective for this position. Cheers, Veronique

Gettysburg College invites applications for a tenure-track position at the rank of assistant professor in the Biology Department to begin Fall 2009. Ph.D. in the Biological Sciences, commitment to teaching in the liberal arts tradition, and research that can involve undergraduates are essential; post-doctoral experience preferred. Must be able to teach genetics, microbiology, and possibly course in area of specialization. Send (no electronic application) curriculum vitae and statement of teaching and research goals and have three letters of reference (of which at least one can speak to the candidate's teaching effectiveness) to: Dr. Véronique A. Delesalle, Microbiology Search, Biology Department, Box 392, Gettysburg College, Gettysburg, PA 17325. Review of applications will begin September 20th, 2008, and will continue until a successful candidate is found.

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

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

Veronique Delesalle <delesall@gettysburg.edu>

HarvardU DiseaseEvolutionEpidemiology

Assistant or Associate Professor of Infectious Disease Evolution and Epidemiology

The Department of Epidemiology at the Harvard School of Public Health (HSPH) seeks candidates for the position of assistant or associate professor of infectious disease evolution and epidemiology. This is a tenure-ladder position, with the academic rank to be determined in accordance with the successful candidates experience and productivity. The successful candidate will play a central role in the departments program of teaching and research.

Candidates are sought with expertise in one or more of the following areas: infectious disease field epidemiology in developing countries, especially sub-Saharan Africa; biological aspects of infectious disease evolution and epidemiology; population biology and population genetics of infectious agents; and theoretical and empirical studies of infectious disease transmission dynamics. Applications from individuals studying malaria or other major infectious diseases not currently under study in the department are especially encouraged, but applications from excellent researchers in any area of infectious disease epidemiology are welcomed. The successful candidate will be expected to develop an independent research program and to participate in collaborative research activities within the department. The successful candidate will participate in the Interdisciplinary Program in the Epidemiology of Infectious Diseases and will be responsible for teaching and for student supervision, which will encompass the direction of doctoral students in dissertation research and student advising at the masters and doctoral levels.

The successful applicant will hold a doctoral degree in epidemiology, ecology, mathematical biology, or another relevant area of biology or public health, or will have a medical degree and formal training in epidemiology.

Please send a letter of application, including a statement of current and future research interests, curriculum vitae, sample publications, and the names of four referees to the following address. Applicants should

ask their four referees to write independently to this address.

Chair, Search Committee for Asst/Assoc Professor of Infectious Disease Epidemiology c/o Rebecca Cantor Department of Epidemiology Harvard School of Public Health 677 Huntington Avenue Boston, MA 02115

Harvard University is committed to increasing representation of women and minority members among its faculty and particularly encourages applications from such candidates.

Rebecca Cantor <RCANTOR@hsph.harvard.edu>

HullU MarineEvolutionaryBiol

Lecturer/Senior Lecturer in Marine Biology

Department of Biological Sciences University of Hull, UK <http://www.hull.ac.uk/biosci> Hull Biological Sciences has a strong Evolutionary Biology group comprising 9 academic members of staff and extensive modern research facilities (<http://www.hull.ac.uk/evolution>). Although this position is for a marine biologist, candidates with evolutionary interests who are able to forge links to this research group are encouraged to apply.

– As part of a major new investment in biological sciences, we are looking to expand significantly our research capacity by the appointment of a new academic member of staff in the area of Marine Biology, preferably in areas complementary to our major international strengths in aquatic biology. We are seeking to appoint at Senior Lecturer or Lecturer level in order to lead and develop research of international standing, as well as to contribute to the departments teaching in this field.

Research groups will have access to purpose-built laboratories and state-of-the-art facilities and technical support will be provided.

Salary range £29,138 - £49,606 pa, pro rata.

When submitting your application please indicate which post you are applying for, either Lecturer or Senior Lecturer.

For more information and to apply please visit www.hull.ac.uk/jobs, phone: (01482) 465557 (quoting vacancy ref: FS99), or for candidates with a hearing/speech impairment textphone: (01482) 466851. Alternative formats available on request.

Departmental web site: <http://www.hull.ac.uk/biosci>

Closing date: 15 August 2008

We promote diversity in employment and welcome applications from all sections of the community.

– Dr David Lunt Department of Biological Sciences University of Hull Hull HU6 7RX UK

d.h.lunt@hull.ac.uk +44 (0)1482 465514 <http://www.hull.ac.uk/evolution> D.H.Lunt@hull.ac.uk
D.H.Lunt@hull.ac.uk

ImperialCollegeLondon Biodiversity

Imperial College London

Division of Biology

Department of Life Sciences

Faculty of Natural Sciences

Research Associate

Starting Salary: £28,910 per annum

Imperial College is ranked the fifth best university in the world (Times Higher QS World University Rankings 2007).

This is an exciting opportunity for a Research Associate with an interest in Evolutionary Ecology and Biodiversity. The successful candidate will work closely with Dr Vincent Savolainen and his research group and will be based at Silwood Park Campus. You will carry out cutting edge research investigating the global patterns of diversification and dispersal in monocotyledonous plants, conducting phylogenetic, DNA sequences and geographic analyses, as well as modelling dispersal/diversification at a global scale.

The successful candidate will have practical experience in phylogenetics and/or biodiversity modelling and strong interests in evolutionary ecology.

The post is funded by the Leverhulme Trust for a period of 2 years in the first instance (with a possible 1 year extension subject to available funding).

Further details of the research group can be obtained from the research group website: <http://www3.imperial.ac.uk/people/v.savolainen> Further details and an application form can be obtained from the College employment website: <http://www3.imperial.ac.uk/employment/research> Completed application forms accompanied by a curriculum vitae and the name and contact details of two

referees should be sent to: Diana Anderson, Imperial College, Silwood Park Campus, Buckhurst Road, Ascot, Berkshire, SL5 7PY or by email to d.anderson@imperial.ac.uk

Closing date: 8 August 2008

Valuing diversity and committed to equality of opportunity

“Thomas, Jenny” <j.thomas@imperial.ac.uk>

ImperialCollegeLondon Technician

Imperial College London

Division of Biology

Department of Life Sciences

Faculty of Natural Sciences

Technician

Starting Salary: £20,090 per annum

Imperial College is ranked the fifth best university in the world (Times Higher QS World University Rankings 2007).

This is an exciting opportunity for a Technician with an interest in Molecular Phylogenetics and Biodiversity. The successful candidate will help carry out research investigating the global patterns of diversification and dispersal in plants, conducting DNA extractions, PCR amplification and sequencing, as well as helping to compile a trait database for monocots.

The successful candidate will have practical experience in DNA sequencing techniques.

The post is funded for 3 years by the Leverhulme Trust and will be based at Silwood Park Campus. The successful candidate will work closely with Dr Vincent Savolainen and his research group.

Further details of the research group can be obtained from the research group website: <http://www3.imperial.ac.uk/people/v.savolainen> . Further details and an application form can be obtained from the College employment website: <http://www3.imperial.ac.uk/employment/technical> . Completed application forms should be sent to: Diana Anderson, Imperial College, Silwood Park Campus, Buckhurst Road, Ascot, Berkshire, SL5 7PY or by email to d.anderson@imperial.ac.uk

Closing date: 8 August 2008

“Thomas, Jenny” <j.thomas@imperial.ac.uk>

IowaStateU EvolutionaryTheory

The Department of Ecology, Evolution, and Organismal Biology (EEOB) at Iowa State University seeks a tenure-track assistant professor developing theory relevant to evolutionary and/or ecological processes. EEOB (< <http://www.eeob.iastate.edu/> >www.eeob.iastate.edu) comprises 30 faculty who use integrative approaches that bridge disciplines and span multiple levels of biological organization. The successful candidate is expected to develop a nationally recognized research program and skillfully teach undergraduate and graduate students. Applicants should have a Ph.D. in ecology, evolution, or related field and demonstrate excellent research and teaching potential. Following the instructions on < <http://www.iastatejobs.com/> >www.iastatejobs.com, submit cover letter, CV, and research and teaching , plus up to three reprints as pdf files, each not to exceed 1MB, by 1 October 2008 (see < <http://www.eeob.iastate.edu/> ><http://www.eeob.iastate.edu/search.html> for additional information). In addition, arrange to have three letters of recommendation sent by e-mail as pdf files to searches@iastate.edu. For further information contact brent@iastate.edu or 515-294-5248. ISU values diversity and is an AA/EEO employer with NSF ADVANCE funding to enhance the success of women faculty in science and engineering.

Dr. Dean C. Adams Associate Professor Department of Ecology, Evolution, and Organismal Biology Department of Statistics Iowa State University Ames, Iowa 50011 <http://www.public.iastate.edu/~dcadams>

Dean Adams <dcadams@iastate.edu>

IowaStateU InsectEvolution

The Department of Entomology at Iowa State University is conducting a search for a full-time, tenure-track position in applied entomology to conduct extension and research (70%, 30% respectively) on arthropod pests of Iowa field crops with an emphasis on,

but not limited to, insect pests of soybeans and corn. Applications will be considered at the level of assistant, associate and full professor. The successful candidate must be an excellent communicator capable of informing growers and agribusiness across multiple media. The successful applicant will be expected to develop a nationally recognized program in pest management for field crops and to collaborate with colleagues, commodity groups, and producers and their service providers. Responsibilities will include advising graduate students. Applications will be accepted until 15 September, 2008. The full announcement and on-line application instructions can be found at <https://www.iastatejobs.com/applicants/-jsp/shared/frameset/Frameset.jsp>. The vacancy is ID# 080538.

aaronjg@iastate.edu

Munich HalfTime GradProgramDirector

The EESLMU Graduate Program for Evolution, Ecology and Systematics at the University of Munich (LMU), currently funded by the Evolution Initiative of the Volkswagen Foundation, is looking for a coordinator for the EES Master program, the summer school and seminar series. The current coordinator, Pleuni Pennings, will focus in future on setting up a structured PhD program and collaborations with other universities.

The ideal candidate should have a degree (preferably a PhD) in Biology or a related field. He/she should be highly motivated and have good communication skills. Proficiency in English and German is required. Experience with teaching, administration or curriculum coordination is an advantage.

The main task of the coordinator will be to organize the EESLMU Master program. This novel, research-oriented Master program started in fall 2007 mainly with international students. Beside the Faculty of Biology of the LMU, the Max Planck Institute for Ornithology and the Bavarian Natural History Collections are involved in this program. The coordinator functions as an interface between university administration, teachers, and students. He/she could also be involved in teaching. The coordinator will also organize summer schools, conferences and a seminar series, and he/she will contribute to the website <http://www.eeslmu.de/>

eeswiki. At the faculty of biology of the LMU, the three current coordinators (one each for EES, the Neurosciences graduate school and the bachelor program) collaborate in various activities (seminar series, mentoring program, publicity).

EESLMU offers a great working environment for someone interested in science and teaching and who enjoys working together with a great variety of people (professors, students and others) to improve education in ecology, evolution and systematics.

The position is available at 50% (TVöD 13 according to German salary scale) from October 1st 2009 for initially one year (with the possibility of extension for another 2 years). Application review will start from July 31st and will continue until the position is filled. Interviews will be held in the first week of August or in September. Informal inquiries and applications including a letter of motivation, CV, and names and telephone numbers of two references, should be sent preferably by email (as a single pdf file) to

Prof Dr Susanne Foitzik foitzik@biologie.uni-muenchen.de 0049 89 2180 74 209

or

Dr Pleuni Pennings pennings@lmu.de 0049 89 2180 74 234

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Pleuni S. Pennings

* Program Coordinator of the Munich Graduate School for Evolution, Ecology, and Systematics

* Postdoc in theoretical evolutionary biology

Evolutionary Biology, Department Biologie II University of Munich (LMU) Großhaderner Str. 2 D-82152 Planegg-Martinsried

Tel: 0049 89 2180 74 234 <http://www.eeslmu.de/-eeswiki> <http://www.biologie.uni-muenchen.de/ou/-theopopgen/index.htm> pennings@lmu.de

pennings@zi.biologie.uni-muenchen.de

Munich HalfTime GradProgramDirector 2

***** Note: this job starts on the 1st of October 2008 (NOT 2009 as in the original mail)!! Sorry for the confusion. *****

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Prof Dr Susanne Foitzik foitzik@biologie.uni-muenchen.de 0049 89 2180 74 209

or

Dr Pleuni Pennings pennings@lmu.de 0049 89 2180 74

234

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Pleuni S. Pennings

* Program Coordinator of the Munich Graduate School for Evolution, Ecology, and Systematics

* Postdoc in theoretical evolutionary biology

Evolutionary Biology, Department Biologie II University of Munich (LMU) Großhaderner Str. 2 D-82152 Planegg-Martinsried

Tel: 0049 89 2180 74 234 <http://www.eeslmu.de/-eeswiki> <http://www.biologie.uni-muenchen.de/ou/-theopopgen/index.htm> pennings@lmu.de

pennings@zi.biologie.uni-muenchen.de

NorthCarolinaStateU PestEvolution

North Carolina State University - Assistant Professor - Molecular-Genetic Manipulation and Evolution of Pest species.

POSITION: Assistant Professor: 85% Research, 15% Teaching. Tenure track position. Home department will be Entomology, Genetics, or Zoology depending on academic background and research concentration.

SALARY: Twelve month university salary commensurate with training and experience.

QUALIFICATIONS: Ph.D. in Molecular Biology or related field. Experience with transgenic methods for genetic manipulation of arthropods and/or mammals. Skills in genomics and bioinformatics. Must have excellent academic record for stage in career.

RESPONSIBILITIES: This position is designed to be an integral part of a new interdisciplinary NCSU program in Genetic Pest Management. The incumbent will be expected to collaborate with other molecular biologists, ecologist, and pest management specialists in developing genetic strategies for control of agricultural pests, and vectors of human and animal diseases. The major research effort in this position must be focused on developing transgenic strains that could be used in the future to decrease pest severity and/or disease incidence. Work on model organisms can constitute a portion of the research program. Excellent extramural grant support and high quality research publications are expected. The individual in this position will de-

velop graduate courses in her/his areas of expertise and will also co-teach courses in NCSU's interdisciplinary graduate concentration in Genetic Pest Management (refer to the following URL —<http://www.ncsu.edu/project/gpm/>) .

APPLICATIONS: Applications will be accepted until September 15, 2008, or until a suitable candidate is selected. Applicants must apply online. See <http://jobs.ncsu.edu> for instructions and required documentation. Proper documentation of identity and employability will be required before the hiring process can be finalized.

AA/EOE. ADA Accommodations: please call 919-515-3148. NC State welcomes all persons without regard to sexual orientation.

NorthCarolinaStateU PestEvolution

2

North Carolina State University - Associate/Full Professor -

Molecular-Genetic Manipulation and Evolution of Pest species.

POSITION: Associate or Full Professor: 85% Research, 15% Teaching. Home department will be Entomology, Genetics, or Zoology depending on academic background and research concentration.

SALARY: Twelve month university salary commensurate with training and experience.

QUALIFICATIONS: Ph.D. in Molecular Biology or related field. Experience with transgenic methods for genetic manipulation of arthropods and/or mammals. Skills in genomics and bioinformatics. Must have excellent academic record for stage in career and proven leadership record.

RESPONSIBILITIES: This position is designed to be an integral part of a new interdisciplinary NCSU program in Genetic Pest Management. The incumbent will provide leadership to the program in the area of molecular biology. She or he will be expected to collaborate with other molecular biologists, ecologist, and pest management specialists in developing genetic strategies for control of agricultural pests, and vectors of human and animal diseases. The major research effort in this position must be focused on developing transgenic strains that could be used in the future to decrease

pest severity and/or disease incidence. Work on model organisms can constitute a portion of the research program. Excellent extramural grant support and high quality research publications are expected. The individual in this position will develop graduate courses in his/her areas of expertise and will also co-teach courses in NCSU's interdisciplinary graduate concentration in Genetic Pest Management (refer to the following URL —<http://www.ncsu.edu/project/gpm/>).

APPLICATIONS: Applications will be accepted until September 15, 2008, or until a suitable candidate is selected. Applicants must apply online. See <http://jobs.ncsu.edu> for instructions and required documentation. Proper documentation of identity and employability will be required before the hiring process can be finalized.

AA/EOE. ADA Accommodations: please call 919-515-3148. NC State welcomes all persons without regard to sexual orientation.

NYU ResTech EvolutionarySystemsBiology

Research Technician, Siegal Lab, New York University

The Siegal Lab at NYU's Center for Genomics and Systems Biology seeks a full-time research technician. The lab studies the evolution of regulatory and developmental systems using two major model organisms, flies and yeast.

The Center for Genomics and Systems Biology is a dynamic and interactive research environment, with a unique concentration of labs investigating questions at the intersection of functional genomics and evolution. NYU is located in the wonderful Greenwich Village neighborhood of New York City.

Applicants should be motivated, organized and collegial, and should have experience in molecular biology (PCR, cloning, DNA and RNA extraction). Experience with flies or yeast is advantageous, as is a strong interest in molecular evolution and systems biology.

To apply please email Mark Siegal <mark.siegal@nyu.edu>. New York University is an equal opportunity employer.

Mark L. Siegal Assistant Professor Center for Genomics and Systems Biology Department of Biology New York University 100 Washington Square East New

York, NY 10003 <http://homepages.nyu.edu/~ms4131>
 mark.siegal@nyu.edu mark.siegal@nyu.edu

OkayamaU EvolutionaryBiology

Okayama University (Japan), Graduate Schools of Natural Science and Technology, and Environmental Science, is seeking ambitious candidates for eleven tenure-track faculty positions at assistant professor level who are willing to develop new interdisciplinary sciences by combination of different fields from biology (including evolutionary biology, behavioural ecology, environmental science etc.) to physics and from basic to applied or engineering sciences in The Research Core for Interdisciplinary Science (RCIS)-Okayama University.

Period of employment: from 1 November, 2008 to 31 March, 2013. *Research Grants*: 5,000,000 - 10,000,000 Yen (about 47,000 - 94,000 US\$) for the first year and about 2,000,000 Yen (about 19,000 US\$)/Year for the next 4 years. *Salary*: 7,000,000-8,000,000 Japanese Yen/Year (about 65,000-74,000 US\$) *More information and application form*: <http://www.okayama-u.ac.jp/en/topic/topic200708.html> *Inquiry*: Dr. Kenji Uneyama, *E-mail*: core-qa@adm.okayama-u.ac.jp *Deadline for application*: no later than 17:00 Japan time on Friday 19 September, 2008

zen.lewis@googlemail.com

PrincetonU LabManager MolecularEvolution

Laboratory Manager

Job Summary:

An exciting opportunity exists for a Laboratory Manager to join HHMI's laboratory at Princeton University. The laboratory manager will supervise and perform technical and administrative tasks for a mid-sized laboratory, such as ordering and organizing supplies, supervising staff as well as performing research. The laboratory studies how genes have evolved to generate biological diversity, focusing on the phenotypic differences among *Drosophila* species.

Principal Responsibilities:

- * Manage day-to-day activities within the research laboratory, including ordering and organizing reagents, assuring proper functioning of essential equipment, oversee budget and spending, and interacting with HHMI and host institution administrative offices.
- * Develop and oversee laboratory organization for reagents, including DNA clones, antibodies, and *Drosophila* stocks.
- * Prepare common reagents for laboratory, including plates for bacterial culture.
- * Develop laboratory guidelines, maintain procedure manuals, evaluate new materials and equipment.
- * Train new personnel in proper lab conduct and instruct in experimental protocols.
- * Monitor laboratory members in safety and regulatory procedures; assure laboratory compliance for these procedures.
- * Participate in specific laboratory research projects, and aid laboratory members in research projects.
- * Perform other duties as assigned.

Preferred Qualifications:

- * Bachelor's degree in health or physical sciences, or equivalent
- * Three or more years of lab experience including at least one year supervisory experience
- * Ability to perform *Drosophila* genetic crosses and maintain stocks, and molecular biology skills for performing cloning and sequencing
- * Operational knowledge of advanced lab equipment
- * Ability to supervise and train others
- * Ability to work independently as well as with a team
- * Ability to review goals, analyze processes necessary to achieve those goals, and develop techniques and systems required to meet those goals

To Apply:

To apply for this position, send a resume, cover letter, and salary requirements by e-mail to: pohld@hhmi.org or by regular mail:

Debbie Pohl

Administrative Assistant II

University of Pennsylvania School of Medicine

405 Clinical Research Bldg.

415 Curie Blvd.

Philadelphia, Pennsylvania 19066

E-mail: pohld@hhmi.org

David Stern <dstern@Princeton.EDU>

PrincetonU ResTech MolEvol

David Stern's laboratory at HHMI & Princeton University, New Jersey seeks applicants for a NIH funded Research Specialist. Primary responsibilities include cloning DNA and other molecular biology procedures, maintaining transgenic *Drosophila*, whole-mount immunohistochemical staining of *Drosophila* embryos, microscopy and recording of embryo images, and performing protein-DNA binding assays.

Essential Qualifications: Requirement: Bachelor's Degree in relevant scientific field Preferred Qualifications: Master's degree in relevant scientific field preferred. Applicants with previous molecular biology experience, especially with *Drosophila* genetics and protein-DNA biochemistry, are preferred.

Note: Level of education and relevant experience will determine Research Specialist Level and salary.

Applications, including a cover letter and resume can be submitted at the following website:

<https://jobs.princeton.edu/applicants/jsp/shared/-frameset/Frameset.jsp?time=1216492218825>

PrincetonU ResTech MolEvol 2

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biochemistry, are preferred.

Note: Level of education and relevant experience will determine Research Specialist Level and salary.

Applications, including a cover letter and resume can be submitted at the following website:

<https://jobs.princeton.edu/> Choose "Search Open Positions" and enter requisition number 0800437

dstern@Princeton.EDU

SanDiego USGS Geneticist

The U.S. Geological Survey, Western Ecological Research Center, San Diego Field Station is searching for a geneticist (GS09). This is a full-time, term position not to exceed 13 months, however may be extended up to 4 years. The geneticist will work with a team of scientists as a member of the Centers Conservation Genetics Laboratory located in San Diego, CA. This position will conduct genetic analyses of mainly herpetofauna populations, including screening microsatellite loci, optimization of multiplex PCR, and collect genotypic and DNA sequence data using automated analyzers/sequencers. The position will also be responsible for conducting statistical analyses of population genetic structure and play a significant role in report and manuscript preparation. Successful applicants will have completed at least 2 years of progressively higher-level graduate education in genetics, or be able to demonstrate a pattern of training that places major emphasis on population genetics. Previous experience with microsatellite marker development, data collection and analysis is highly desirable. Full details and application instructions will be posted at www.USAJOBS.gov starting approx. July 7th and closing approx. July 18th. Applications (resume and application questions) for this vacancy must be received on-line via USAJOBS before midnight Eastern Time (Washington, D.C. time) on the closing date of the announcement. U.S. citizenship is required.

Annual Salary: 48,550.00 V 63,120.00 USD

Dr. Amy Vandergast USGS San Diego Field Station
4165 Spruance Road, Suite 200 San Diego CA, 92101
(619) 225-6445 avandergast@usgs.gov

Amy Vandergast, Ph.D.

Geneticist USGS Western Ecological Research Center
San Diego Field Station

4165 Spruance Road, Suite 200 San Diego CA, 92101
 Phone: (619) 225-6445 Fax: (619) 225-6436 Email:
 avandergast@usgs.gov avanderg@sciences.sdsu.edu
 Amy Vandergast <avandergast@usgs.gov>

UAlaska AvianSystematics

Collection Manager: Birds University of Alaska Museum

The University of Alaska Museum of the North is seeking qualified applicants for a position as Collection Manager in the Department of Ornithology. The University of Alaska Museum (UAM) houses the definitive collection of birds from northwesternmost North America and also includes important holdings from major relevant wintering areas. Located in a region that has never had a formal biological survey, this collection has tripled in size during the past decade to about 25,000 specimens; it is an exciting time to be a specimen-based ornithologist.

The Collection Manager is responsible for the daily management and development of the Bird Collection, which includes the multiple preparation types typical of modern collections. Duties include all aspects of collection growth and management, such as permitting, collecting expeditions, specimen acquisition and preparation, cataloguing and databasing, maintenance, loans, public inquiries and tours, purchasing and budget management, supervision of students and volunteers, and managing the use of the collection. The Collection Manager will assist the Curator in writing proposals and reports of collections-based activities and will also promote the Collection through public outreach, exhibits, reports, and presentations at meetings when appropriate.

Minimum qualifications include an advanced degree in an appropriate discipline and experience in specimen-based ornithology (including museum experience), specimen collection and preparation, formal communications on specimen-based science, and data management.

The UA Museum is housed in a newly expanded and renovated building on the campus of the University of Alaska Fairbanks, just south of the Arctic Circle in Interior Alaska. More information can be found www.uaf.edu/museum/ and www.uaf.edu/museum/bird/. Fairbanks has ready ac-

cess to incredible outdoor opportunities, and as the second largest population center in Alaska, it has important cultural, artistic, and recreational opportunities not often available in a community of its size.

Salary begins at about \$48,588 per year with full university benefits.

To apply, please submit an application and curriculum vitae, a collections management statement, and the names and contact information of three references by 12 August to: <https://www.uakjobs.com/applicants/jsp/-shared/frameset/Frameset.jsp?time=1215127710639>

For questions, contact Kevin Winker, Curator of Birds, at ffksw@uaf.edu.

Kevin Winker <ffksw@uaf.edu>

UAustralDeChile 3 ConservationBiology

Three (3) full time faculty positions are available at the FACULTAD DE CIENCIAS FORESTALES of the UNIVERSIDAD AUSTRAL DE CHILE, Valdivia, Chile.

Duties include teaching at the undergraduate and graduate level and research.

Candidates should have a Ph.D. or similar degree in Forestry or similar discipline, relevant publication record and demonstrated strength in teaching and research.

Positions offered in the areas of:

• Conservation Biology • Plant Ecology • Plant propagation with solid background in the genetics of native trees (Neotropical Temperate Forest)

Application deadline Octubre 3rd 2008.-

Starting date: upon agreement

Please send application to:

Dirección de personal Concurso 17-06 Universidad Austral de Chile, Casilla 567, Valdivia, Chile

horacio.samaniego@gmail.com

UKent ResTech ConservationGenetics

14 month position - Research Technician, Conservation Genetics Lab - Durrell Institute of Conservation and Ecology, University of Kent, UK.

Closing date: 14 July 2008

Salary: UCEA Grade 6: £23,692 - £27,466 pa; Starting salary: £23,692, Grade 6, point 24 An opportunity for a Research Technician to work full-time for the duration of the appointment on a project funded by The Leverhulme Trust entitled 'MHC diversity and emerging infectious disease in parrot populations on Mauritius'. The successful candidate will be expected to primarily carry out a variety of laboratory work to support the progression of project and to work alongside a full-time postdoctoral researcher. The project is lead by Dr Jim Groombridge at the Durrell Institute of Conservation and Ecology (DICE). Specifically, laboratory work may include (but is not limited to) DNA extraction and amplification using a number of different methods, microsatellite genotyping, MHC genotyping, and PCR-based assays for pathogen prevalence, collation and cataloguing of samples. Candidates must possess a first degree or equivalent in a relevant discipline; have experience in core molecular biology laboratory techniques and knowledge of molecular genetic techniques. Some knowledge of avian ecology and conservation and of MHC and/or vertebrate immunity would be advantageous. DICE has an international reputation for its training and research programmes, having attracted postgraduate students from over 70 different countries. The objectives of DICE are to undertake, from a multi-disciplinary standpoint, research, training and the implementation of international biodiversity management. In pursuit of these objectives, DICE has collaborated on projects embracing the ecological, economic or social aspects of biodiversity conservation in over 50 countries. In 1997, DICE and social anthropology co-founded the new Department of Anthropology, in which DICE remains a formally constituted Centre. The Department of Anthropology was rated '5' in the 2001 Research Assessment Exercise, and has a strong research ethos, to which DICE contributes its growing reputation for research in biodiversity conservation.

For further information, to view the full job description and to apply for this post (please do not send your ap-

plication directly to the department), go to;

[http://www.jobs.ac.uk/jobs/CI277/-](http://www.jobs.ac.uk/jobs/CI277/-Research_Technician/)

[Research_Technician/](http://www.jobs.ac.uk/jobs/CI277/-Research_Technician/) How to apply - for posts of this nature you will be required to fill in the main details section as well as upload your CV, a one page summary (this should include details of experience and other information in support of your application with direct reference to the advertisement and further particulars) and any supporting documents. Closing date for applications: midnight Monday 14 July 2008. Interviews are to be held: between Wednesday 30 July & Friday 1 August 2008.

J.Groombridge@kent.ac.uk

UKonstanz ChemicalEvolutionaryBiol

The University of Konstanz is one of the nine 'Universities of Excellence' in Germany. The Department of Biology has a vacancy for a

Full Professor of Chemical Ecology

The position, available from 01 October 2008, involves research in the field of e.g. molecular communication at the intra- or interspecies level and teaching courses of the Department of Biology. Evolutionary biologist with an interest in adaptation at the genetic level to the environment are strongly encouraged to apply. Further information can be obtained from the Head of Department, Prof. Peter Kroth (Peter.Kroth@uni-konstanz.de).

Applications including a CV, list of publications, teaching experience, a research plan for the next five years should be sent to: The Faculty of Science, University of Konstanz, D-78457 Konstanz, Germany

Prof. Axel Meyer, Ph.D. Lehrstuhl für Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz Germany

fon + 49 7531 88 4163 fax + 49 7531 88 3018

secretary: Ingrid.Bader@uni-konstanz.de tel. + 49 7531 88 3069

www.evolutionsbiologie.uni-konstanz.de Axel Meyer <axel.meyer@uni-konstanz.de>

**UNorthCarolinaGreensboro
ResTech**

Research Specialist

The Biology Department in the College of Arts and Sciences at the University of North Carolina at Greensboro is searching for a Research Specialist. The primary duties of this position are: 1) to prepare materials for undergraduate biology laboratories and 2) maintain biological specimens located in the university's greenhouses. The first duty includes preparation for the teaching laboratories in botany and ecology. The research specialist works with instructors to design, evaluate ecology and set up plant labs and helps modify equipment and methods based on instructional initiatives. The second duty involves providing primary care for the Department's plants that are used in its research and teaching labs. This duty includes a) responding to changes in the environmental conditions in the greenhouses and growth chambers, b) providing pest and disease treatments, c) meeting plants' nutritional needs, and d) assuring that the appropriate water, temperature, light, and humidity requirements of the plants are met on a daily basis. Graduation from a four-year college and good communication and organizational skills are required. Obtaining a North Carolina pesticide application license will be required within 30 days of hiring. The following are preferred: 1) MS degree in botany, plant sciences, horticulture or plant ecology. 2) Experience in maintaining greenhouses, plant materials, and growth chambers. 3) Experience in pesticide use and regulations and nutrient application in greenhouses. 4) Experience in managing college level laboratory courses. 5) Experience in maintaining laboratory equipment and ordering and maintaining biological and chemical inventories. 6) Knowledge of plant physiology and its application to plant cultivation and biotechnology. Position hours are 8:00 a.m. - 5:00 p.m., Monday - Friday, however it is possible some evening and weekend hours will be required depending upon changing circumstances and departmental needs. Salary commensurate with experience (Range = \$33,650 - \$40,330). To apply for this position go to <http://web.uncg.edu/~hrs/Recruitment/> and apply for Research Specialist position #13101. Applications will be accepted through August 2, 2008.

David Remington Assistant Professor Department of

Biology University of North Carolina at Greensboro
P.O. Box 26170 Greensboro, NC 27402-6170

lab and office: 226 Eberhart Bldg. tel: (336) 334-4967 e-mail: dlreming@uncg.edu web site: <http://www.uncg.edu/~dlreming> dlreming@uncg.edu dlreming@uncg.edu

**UWesternAustralia ResTech
MolecSystematics**

Research Assistant, School of Animal Biology, University of Western Australia

We are seeking a research assistant to work on projects involving molecular systematics of invertebrates. Our research team collaborates with government, industry, and other institutions to design and implement molecular studies of biodiversity, often on invertebrates of conservation significance. The ideal candidate will possess knowledge of mtDNA sequence analysis, and have experience in DNA extraction, PCR & PCR troubleshooting, primer design, and sequence alignments. In addition, the candidate must possess good written communication skills and the ability to manage databases and conduct basic phylogenetic analyses. The candidate must be organised, motivated, work well in a team environment, and enjoy a challenge.

Minimum qualifications: Honours or M.Sc. in molecular biology, genetics, population genetics, or equivalent. Applicant must be a citizen/permanent resident of Australia/New Zealand or have a valid working visa for Australia.

Term of contract: 12 month position to start, with potential for extension, UWA level 5 (\$50,195) + super or commensurate with experience.

Interested applicants are encouraged to apply directly to Dr Terrie Finston tfinston@cyllene.uwa.edu.au Applications should include a c.v. with contact details for three referees. Closing date 25 July 2008.

Terrie Finston Post-doctoral Research Fellow School of Animal Biology M092 The University of Western Australia 35 Stirling Hwy., Crawley 6009 Western Australia Tel: +61 8 6488 2247 FAX: +61 8 6488 1029 Email: tfinston@cyllene.uwa.edu.au *Please consider the environment before printing this e-mail.

Registration open: 19th International Symposium of Subterranean Biology, Fremantle, Australia. 21-26

September, 2008 <http://www.issb2008.org.au> < <http://www.issb2008.org.au/> >

. 30th May - Early Bird Registration Closes . 1st July
- Abstract Submission Deadline

tfinston@cyllene.uwa.edu.au
ston@cyllene.uwa.edu.au

tfin-

YORK PlantPhylogeography

Dear all

The York Institute for Tropical Ecosystem Dynamics (KITE) is seeking to appoint a Senior Research Fellow to work within the KITE project, ideally within the area of plant phylogeography.

The successful applicant will use DNA sequence data to investigate the historical biogeography of tropical forest forming species in an East African biodiversity hotspot, the Eastern Arc Mountains. He/she will work as part of a multidisciplinary team integrating modelling studies, palaeoecological, phytosociological, and phylogenetic data to examine past, present and future impacts of environmental change within the region. As such, this work will have a particular focus on investigating the age and divergence of mountain forest populations relative to the wider region in the context of investigating hypothesised impacts of past climatic changes. This project will utilise existing published and unpublished chloroplast sequence data, in combination with further data to be derived from field samples and herbarium specimens. Candidates must be experienced in molecular lab work and sequence-based phylogenetic data analysis.

Full details can be found on the University of York (UK) vacancies webpages (<http://www.york.ac.uk/-univ/mis/cfm/jobs/>) under research jobs, ref R08215.

Informal enquiries can be made to Rob Marchant (rm524@york.ac.uk) or Alistair Jump (aj523@york.ac.uk)

Alistair Jump Environment Department University of York Heslington York YO10 5DD UK

www.bioge.org www.york.ac.uk/res/kite/

Alistair Jump <aj523@york.ac.uk>

WashingtonStateU PlantEvolutionaryGenetics

Research Assistant in Plant Evolutionary Genetics

A research assistant is needed to conduct experiments in the Busch laboratory at Washington State University (WSU). The Busch laboratory conducts experiments in plant evolutionary genetics, with a particular emphasis on the evolution of mating systems and their genetic consequences. Experiments are currently focusing on species of *Leavenworthia*, a genus of mustards that are endemic to the southeastern United States. An independent and highly motivated individual is being sought to conduct independent research in the following two areas: 1) an examination of genetic incompatibilities contributing to reproductive isolation in hybrid offspring produced in crosses between populations of a self-fertilizing species; and 2) PCR amplification of microsatellite loci to study the effects of mating system on population structure in several *Leavenworthia* species. Field trips to collect natural material may also be required, so the candidate should be comfortable collecting plant material in the field. The ideal candidate will have recently graduated from University with a B.A. or B.S. in biology, in addition to having experience conducting independent research in a laboratory. Experience with molecular techniques (PCR, electrophoresis, cloning, etc.) is an asset but not a requirement for employment. Responsibilities of the position include maintenance and oversight of the laboratory (25%), growth of plant material, experimental crosses, and measurement of plant traits in a greenhouse (35%), in addition to PCR amplification and analysis of polymorphic DNA (40%).

Interested individuals should submit a one-page letter outlining why the position is being sought to Jeremiah Busch at jwbusch@wsu.edu. Applicants must also provide the email addresses and phone numbers of three references in their letter. The position is to be filled for one year, although employment for a second year may be offered upon satisfactory performance. Applications will be accepted and screened until September 1st, 2008. The starting salary is \$25,000, although this amount is negotiable based upon prior experience. The position is expected to start on January 5th, 2009. Washington State University is housed in Pullman, Washington, a small town with strong school systems

and many opportunities for outdoor recreation. The biology department at WSU has many faculty and graduate students with interests in ecology and evolution (<http://www.sbs.wsu.edu>), and we enjoy very strong interactions with biologists on the nearby campus of

the University of Idaho.

Jeremiah Busch Assistant Professor Washington State University School of Biological Sciences PO Box 644236 Pullman, WA 99164

jwbusch@wsu.edu jwbusch@wsu.edu

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ABI 5x sequencing buffer

For years we used to make our own 5x sequencing buffer for doing cycle sequencing with BigDye. However, for the last couple of years ABI (hum Darth Vader's theme here) started shipping 5x buffer with the BigDye. Recently we ran out so we figured we'd be lazy and order some from ABI (hum Darth Vader's theme here). They quoted us nearly \$1000 for 28mL of the stuff. Now, my recollection is that the 5x buffer was simply a solution

of 400mM tris and 10 mM MgCl. However, I think this was back in the days of BigDye3.0. Does anyone make their own 5x buffer for bigdye 3.1. I doubt there is any reason that the buffer costs more than gold.

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

MA 02215 617-358-4589 office 617-358-4590 lab 617-353-6340 FAX pbarber@bu.edu <http://people.bu.edu/~pbarber/> Paul Barber <pbarber@bu.edu>

ABI 5x sequencing buffer answers

Thanks to all who sent in helpful responses to my query regarding the ABI 5x sequencing buffer. It appears that most people use the following recipe. Indeed it seems that it is just 400mM Tris, and 10mM MgCl₂, pH 9.0 solution, making it one of the most expensive saltwater solutions in the world.

Some of the more helpful responses are pasted below. If you're buying this from ABI, you should complain to the bitter about their exploitive business practices.

Cheers, Paul

From: Tomas Hrbek Cycle sequencing 5x replacement buffer (1 liter):

400 ml 1M Tris-HCl pH 9.0 10 ml 1M MgCl₂ 590 ml milliQ H₂O

Stir for minimum of 1 hour. Filter through a Watson filter paper. Aliquot into 15ml conical tubes. Store at 4C or room temperature.

From: Brant Faircloth

the solution that i have for 5X BD dilution Buffer is 400mM Tris-HCl (pH 9.0) and 10 mM MgCl₂, just as you wrote. It can be used with BD 3.1, and we run 12th or 16th reactions.

S. Lin and Bruce Roe list the same solution for BD 3.1 here (for a 1:64 dilution; 96-well plate premix):

<http://www.genome.ou.edu/~PredispensedDilutedSeqMixBD3orET.html> and you can also find the same buffer solution recommended on the (very pretty) barcodeoflife.org site (protocol from the CCDB):

http://www.barcodeoflife.org/CCDB_DOCS/-CCDB_Sequencing.pdf U. of Washington, however, lists their BD buffer (for 1.1 and 3.1) here:

<http://dnaseq.bchem.washington.edu/bdsf/help/-dilutions.html> as (I have shown 5X below): 350 mM Tris (pH 9.0) and 2.5 mM MgCl₂

not sure about this one, but I figured you might want to see some options ;).

cheers, b

– Dr. Paul H. Barber Boston University Boston University Marine Program 5 Cummington St. Boston,

Adonis samples

Dear Evoldir-ers,

We are currently seeking any Adonis spp. samples you may be willing to share, preferably viable seed, but freeze-dried leaf tissue would also do. In particular, Adonis palestina samples would be most welcome.

Thanks,

Dan

Dan Milbourne, PhD Research Officer Crops Research Centre Teagasc Oak Park Carlow Ireland

Dan.Milbourne@teagasc.ie

Tomas Murray <tomas.murray@teagasc.ie>

Asian sequencing services

Does anyone know of any affordable DNA sequencing services in the vicinity of Southeast Asia? I am currently outsourcing PCR products from SE Asia to Cornell's sequencing service, however my packages are constantly being stopped by U.S. Fish and Wildlife agents in Alaska, despite having clearly labeled the contents according to what they ask for each time we talk to them. Depending on which agent is on duty in, it can take several days to work it out by phone with FedEx and USFW and get our package released. So now we are looking for services in the SE Asian region. Any advice or recommendations would be most appreciated.

Craig Starger

cstarger@bu.edu

Azores Biodiversity

Dear Colleagues,

I would like to introduce you to a recently made available on line database on the Biodiversity of the Azores archipelago, The Azorean Biodiversity Portal (www.azoresbioportal.angra.uac.pt). It is possible for the first time on this website to have access to the detailed distribution of all the Azorean terrestrial flora and fauna (Lichens & Fungi, Bryophytes, Vascular Plants, Marine Invertebrates, Terrestrial Molluscs, Arthropods and Vertebrates) mapped in a 500x500 m grid based on literature records.

It is a very resourceful website that I believe will be useful for many of you. Go check it out!

Best Regards,

Isabel

Isabel Amorim do Rosário Azorean Biodiversity Group, CITA-A Universidade dos Açores, Terra Chã 9701-851 Angra do Heroísmo Terceira, Açores Portugal

Isabel Maria Amorim do Rosário <isabelr@uac.pt>

Bioinformatic career survey

Dear Evoldir members,

Michael Barton from Bioinformatics Zen has written a survey for bioinformatics. It is running until the end of July and it is meant to provide everyone with a picture of the field. The more information we gather the more accurate and useful the overall results will be. Please take a minute to fill out this (anonymous) survey and send it to other people that might be interested.

Survey at the link below: <http://www.bioinformaticszen.com/2008/07/creating-a-picture-of-different-careers-in-bioinformatics/> Thanks everyone!

isheng.tsai04@imperial.ac.uk

isheng.tsai04@imperial.ac.uk

Bootstrapped Fst matrices

Dear Evoldir members,

Could someone suggest me a way to generate about

100 Fst matrices by bootstrapping an original dataset of sequences and/or microsatellite data?

Thank you very much for your help! Katja

Dr. Katja T.C.A. Peijnenburg Institute for Biodiversity and Ecosystem Dynamics University of Amsterdam visiting: Kruislaan 318, Room B003 1098 SM Amsterdam mailing: P.O. Box 94062 1090 GB Amsterdam

The Netherlands +31 20 5257856
K.T.C.A.Peijnenburg@uva.nl

K.T.C.A.Peijnenburg@uva.nl

Culicoides samples

Dear all,

if anyone out there works with salt marsh Culicoides species, I'd be most grateful if you could spare a few specimens for DNA extraction! (I'm particularly interested in the salt marsh form of Culicoides austeni.)

Thanks a lot in advance!

Tobias Kaiser tkaiser@ice.mpg.de

Evolution Medicine journal

The Evolution & Medicine Review <http://evmedreview.com> is a new open-access online publication created by and for the community of scientists, scholars, clinicians and teachers working at the interface of evolution and medicine. It is published by The Evolution and Medicine Network, and edited by Catriona MacCallum and Randolph Nesse

The articles are written by 34 scientists who have volunteered to serve as Senior Correspondents: William Aird, Steven Austad, Patrick Bateson, Gillian Bentley, Carl Bergstrom, Martin BrÅ¼ne, James Carey, Bernard Crespi, Peter Ellison, Mark Flinn, Detlev Ganten, Peter Gluckman, Raju Govindaraju, Mel Greaves, Peter Hammerstein, Magdalena Hurtado, Matthew Keller, Jacob Koella, Melvin Konner, Jon Laman, Ruth Mace, Randolph Nesse, Charles Nunn, Robert Perlman, Andrew Read, Graham Rook, Paul Schmid-Hempel, Derek Smith, Stephen Stearns, Mark Thomas, Wenda Tre-

vathan, Alan Weder, Lewis Wolpert, and Marlene Zuk
 Most articles are brief commentaries on recent papers or meetings; some are ideas or reviews that would not fit well in a traditional journal. The Evolution & Medicine Review does not publish original research. Its mission is, instead, to provide authoritative perspectives on research and ideas culled from diverse fields related to evolution and medicine.

A related larger aim of The Evolution & Medicine Review (EMR) is to help build the evolution and medicine community by providing a central information resource. The EMR offers easy ways to share information about meetings, courses, jobs, books, and more. Your suggestions for topics and articles are also welcome

You can subscribe via RSS or e-mail notification (with instant unsubscribe)

For details, visit The Evolution & Medicine Review at <http://evmedreview.com> Please feel free forward this message to others who may be interested

Randolph M. Nesse, MD The University of Michigan <http://nesse.us> 2007-2008: Institute for Advanced Study, Wallotstrasse 19, 14193 Berlin, D

Gel scoring software

Dear Evoldir Members!

I amplified ITS regions by a PCR based approach and ran amplicons (not labelled with fluorescence) on a 10% PAGE gel with a size standard. I obtained different genotypes (based on their length variation) at a particular region of interest. I have them all as gel images (TIFF format). Currently I am looking for a software program (possibly a freeware) that facilitates me in scoring bands from a normal PAGE gel image. I would like to score them as either presence or absence of bands (0 or 1) and calculate genetic diversity like we do in a AFLP. I would be highly obliged if any of you could provide me suggestions on the above.

Regards Velavan

VELAVAN T P Animal Evolutionary Ecology, Zoological Institute, Faculty of biology, University Tuebingen Aufder Morgenstelle 28 E 72076 Tuebingen Germany

Office: +49-7071-2974841 Mobile: +49-176-24199950
 Fax: +49-7071-295634 e-mail: velavanp@yahoo.com,
velavan@uni-tuebingen.de <http://www.uni-tuebingen.de/evoeco/> "Greater the gifts Greater

the Responsibilities"

Velavan <velavanp@yahoo.com>

Hydrophyllum virginianum seeds

Hi, I'm looking for *Hydrophyllum virginianum* (Virginia waterleaf) seeds to grow in a greenhouse in the fall. If anyone has any seeds, suggestions about where to buy them, or advice about growing conditions, please contact me at amanda.gorton@utoronto.ca

Amanda Gorton Department of Ecology and Evolutionary Biology University of Toronto

Amanda Gorton <amanda.gorton@utoronto.ca>

Informative AFLP markers

Dear Evoldir Members,

I work on a large-scale population-level project with over 2000 samples, using AFLP. In order to reduce the laborious scoring of AFLP profiles I'd like to select the most informative AFLP markers. I was wondering if any of you have experience with this and can recommend an approach/software/procedure etc.

I have already scored selected panel of about 150 samples in 9 primer combinations used and this generated over 400 AFLP markers. I was hoping that if we could select less markers/primer combinations that would give us nearly the same results I could substantially reduce time spent by scoring and use it for subsequent data analysis. Please note that most of the samples are already lab-analysed in all 9 primer combinations so I'm not looking for cutting down the cost of lab-work.

Any suggestions will be greatly appreciated!

Best wishes, Sarka

– Sarka Jahodova

Department of Ecology Charles University Vinicna 7 CZ-128 44 Prague 2 Czech Republic

Tel. +420 221951805 E-mail: jahodova@natur.cuni.cz

And

Department of Invasion Ecology Institute of Botany
Academy of Sciences of the Czech Republic CZ-252 43
Pruhonice Czech Republic

<http://www.ibot.cas.cz/invasions>

hodova@natur.cuni.cz

ja-

ITS problems isopods

I have problems with ITS1 5.8S and ITS2 sequences in isopods. I had my PCR products sequenced and the sequences were in a great condition. BUT when I do NCBI BLAST I find similarity with a very few organisms and none of them is very relative to the isopods. I don't know what is wrong. any suggestions? the closest organism seems to be a copepod and I am not sure that's right.

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

stmartim@upatras.gr

I have recently tried to calculate individual-based trees using the Microsat software by Minch et al. This software produces frequency and distance files on diploid data (with bootstrapping if wanted) that can be imported into PHYLIP. Unfortunately, the software is no longer supported, and my version is not working anymore. Creating individual-based frequency input files for PHYLIP is possible but very exhausting, and besides Microsat has a far wider range of possible distances (apart from the usual three that PHYLIP offers).

Does anybody know of an alternative software instead of Microsat? Individual-based trees are very popular, and indeed they offer exciting results sometimes. It would be a great loss not to be able to do this any longer.

Any help would be gratefully appreciated!

Best wishes,

Frank

Dr. Frank E. Zachos Mammalian Biology (Managing Editor) Zoological Institute Christian-Albrechts-University Kiel Olshausenstrasse 40 (postal address) 24118 Kiel, Germany Tel.: +49 / (0)431 - 8804529 Fax: +49 / (0)431 - 8801389 fzachos@zoologie.uni-kiel.de

Frank Zachos <fzachos@zoologie.uni-kiel.de>

MacVector files

Dear EvolDir,

I've got a bunch of MacVector files that I need to import to Vector NTI. However, I no longer have access to MacVector. Does anyone know of a third party (free) software that could allow for converting the MacVector files to a format that Vector NTI can handle?

Thanks

Jens

jens.carlsson@duke.edu jens.carlsson@duke.edu

Microsat software and individual-based trees

Dear all,

Microsat software and individual-based trees answers

Dear all,

I have received many very helpful answers and comments regarding my query about software programmes with the option of constructing individual-based distance files and or trees.

The take-home message of all these answers was that I should go for either the MSA (Microsatellite Analyser) software by Dieringer and Schlotterer, which offers many options not implemented in Microsat but requires a particular infile, or the programme Populations by Langella, which also covers individual-based distances and trees.

I would very much like to thank all who have enlightened me on this matter your help was very valuable to me!

Cheers,

Frank

Dr. Frank E. Zachos Mammalian Biology (Managing Editor) Zoological Institute Christian-Albrechts-University Kiel Olshausenstrasse 40 (postal address) 24118 Kiel, Germany Tel.: +49 / (0)431 - 8804529 Fax: +49 / (0)431 - 8801389 fzachos@zoologie.uni-kiel.de

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Iran. Phone (Office):+98-411-3392060- Mobile:+98-9144177930 Fax: +98-411-3345332 Alternative Email: n_pirani@tabrizu.ac.ir

Nasrollah Pirany <npirany@gmail.com>

Molecular Systematics New Edition

Dear Evoldirs,

I am writing to enquire whether there is any new edition of this book:

Hillis D.M., Moritz C., Mable B.K. 1996. Molecular systematics. Sinauer Associates, Publishers, Massachusetts, USA.

Or if you could advise any newly published book as useful as this one.

Thank you in advance for your time and assistance. – enoch achigan-dako Department of Taxonomy and Evolutionary Biology Leibniz Institute of Plant Genetics and Crop Science (IPK)

Corrensstr. 3 D-06466 Gatersleben Germany

Tel: +49 39482 5117 Fax: +49 39482 5155
<http://www.ipk-gatersleben.de/Internet> enoch achigan <dachigan@gmail.com>

MtDNA elution and sequencing

Dear EvoDir

I want to sequence D-Loop region of chicken MtDNA and need your valuable suggestions regarding: 1- primer sets which works well 2- elution of DNA from gel (simple but practical) 3- The best and reliable sequencing method (direct or clone based) 4- any other comments also can be posted to npirany@gmail.com
 Regards

– Nasrollah Pirany Assistant Professor University of Tabriz Faculty of Agriculture Dept. of Animal Science 29th Bahman Bolvard, East Azarbaiejan, Tabriz,

NorthwesternU DarwinBookReading

2009 is the 200th anniversary of the birth of Charles Darwin and the 150th anniversary of the publication of /On the Origin of Species/, therefore the One Book One Northwestern project at Northwestern University has chosen to read /The Reluctant Mr. Darwin: An Intimate Portrait of Charles Darwin and the Making of His Theory of Evolution//, by David Quammen. Reading of the book will be accompanied by four public lectures and several other events to facilitate conversations about Darwin, the theory of evolution, and its enduring impact on science and society. Our website has a wealth of information on the project, including an event listing, and will eventually feature a collection of essays on related topics by faculty. <http://www.northwestern.edu/onebook/> Please let me know if you have any questions or require further information.

Thanks, Vinati DeVane

– Vinati DeVane One Book One Northwestern: The Reluctant Mr. Darwin <http://www.northwestern.edu/onebook/> v-devane@northwestern.edu 847-467-1655

Vinati DeVane <v-devane@northwestern.edu>

Pearl Oyster samples

Dear all,

I am a PhD student working on population genetics and Phylogeography of the black-lipped pearl oyster: *Pinctada margaritifera* in the Indo-Pacific area. The geographical distribution of this species ranges from the Red Sea to Eastern Pacific ocean. I am currently looking for samples from all the Indo-Pacific. If anyone ever comes across a Black lipped pearl oyster, I would be very grateful if a small piece of muscle could be sampled and preserved in alcohol for DNA extraction before

being sent to me.

You can contact me for more information:
sarah.lemer@univ-perp.fr

Thank you very much. Sarah.

Sarah Lemer PhD candidate Université de Perpignan
Via Domitia UMR 5244 CNRS UPVD EPHE Centre
de Biologie et Ecologie Tropicale et Méditerranéenne
52 Avenue Paul Alduy 66860 Perpignan cedex, France
Phone: 33 (0) 4 68 66 21 90 Fax: 33 (0) 4 68 50 36 86

sarah.lemer@univ-perp.fr sarah.lemer@univ-perp.fr

Pinned insect DNA

Dear Evoldir Listers,

For project planning purposes, I'm attempting to establish what is a typical level of success for obtaining DNA sequence from pinned museum specimens of insects of various ages. To compile this information from the literature is virtually impossible, as most studies don't give data on the specimens they were unable to sequence.

If any of you have experience in this area, I'd be interested to know what taxonomic group you are working on, what gene region and length of DNA fragment, average age of specimens and percentage of samples that sequenced successfully. Approximate numbers are OK. If you know collecting/killing methods that information would also be useful.

Regards,

Karen Bell - karen.bell@csiro.au

Plantago seed request

Dear all,

For a project on plasticity and ecological amplitude of native and introduced plant populations, we are looking for seed material from native and introduced populations of *Plantago lanceolata*, *Lactuca serriola*, *Holcus lanatus* and *Capsella bursa-pastoris*. All four species are native to Europe, and now have an almost worldwide distribution.

If you know some populations of any of these four species, and would be willing to send us seeds, together with information on the location of the population (latitude, longitude, altitude), we would very much appreciate it. From each population, we would like to have, when possible, seeds from ten different plant individuals, separated by at least 1 m. The seeds should ideally be kept separately for each individual. However, if it is too laborious to pack the seeds separately, we are also happy with bulked seeds.

For questions and further information, contact Jake Alexander (jake.alexander@env.ethz.ch <mailto:jake.alexander@env.ethz.ch>) or Mark van Kleunen (vkleunen@ips.unibe.ch <mailto:vkleunen@ips.unibe.ch>).

Seeds can be sent to

Jake Alexander

Institute of Integrative Biology

Universitätsstrasse 16

ETH Zentrum, CHN F37.2

CH-8092 Zurich, Switzerland

– Dr Mark van Kleunen Institute of Plant Sciences University of Bern Altenbergrain 21 CH-3013 Bern Switzerland

Tel. +41 (0)31 631 4923 Fax +41 (0)31 631 4942 e-mail: vkleunen@ips.unibe.ch
<http://www.staff.unibe.ch/vkleunen/> <http://www.botany.unibe.ch/planteco/index.php> Mark van Kleunen <mark.vankleunen@ips.unibe.ch>

Problem DGGE analyses

Does anyone a freeware or a cheaper version of Bionumerics for DGGE analyses?

Many thanks

Beste regards

Louise Vanysacker

Katholieke Universiteit Leuven Laboratory of Aquatic Ecology and Evolutionary Biology Microbial Ecology group Ch. de Beriotstraat, 32 B-3000 Leuven Belgium Phone: +32 16 32 37 17 (secretariat) or +32 16 32 36 86 Fax: +32 16 32 45 75 E-mail: louise.vanysacker@bio.kuleuven.be website: <http://www.kuleuven.ac.be/bio/eco/index.php>

Louise Vanysacker <louise.vanysacker@bio.kuleuven.be> Sciences Texas A&M University 2258 TAMU College Station, TX 77843-2358, USA

Phone: 001-405-664-4820 Website: <http://www.sulfide-life.info/mtobler> Humans are not the pinnacle of evolutionary progress but only an aberrant side branch of fish evolution. - Moyle

michi.tobler@gmail.com

ProposalCall SynthesisMeetings

Call for Proposals for synthesis meetings on evolutionary biology, biodiversity conservation, and bioinformatics The Biodiversity Synthesis Center, a component of the Encyclopedia of Life located at The Field Museum, invites proposals for synthesis meetings on a range of topics in systematics, biodiversity conservation, evolutionary biology, and bioinformatics. We encourage proposals which bring together diverse groups of people for advancing science and informatics and for contributing to the EOL. Meetings may be proposed for our new facility in Chicago or at other national or international locations. Proposals should be focused on evolution and systematics, build new bridges among disciplines, or deal with timely issues in biodiversity conservation. Proposals should be short (>5 pages) with budgets ranging from \$15,000 for small meetings of 10 people to \$50,000 for larger meetings with extensive international participation. Proposals are accepted at any time and are reviewed quarterly. Please email questions, concepts, or full proposals to biosync@fieldmuseum.org For more information, please visit our website: www.fieldmuseum.org/biosync aaronowsky@fieldmuseum.org

RNAlater expiration date

Hi all,

I have some tubes with unused RNAlater that date back to March 2007. They were stored at room temperature. According to the product documentation, RNAlater is storable for only about a year. Does anyone have any experience of using RNAlater that has been stored for longer than a year? Given the price of the chemical I hoped to be able to use the old vials, but of course I don't want to risk to lose samples just because I'm stingy... Any advice or experiences would be greatly appreciated!

Cheers, Michi

- Michael Tobler Department of Wildlife and Fisheries

Rotting fruit samples for Caenorhabditis

Dear all,

This is a call for rotting fruit samples from all around the world (especially outside Western Europe and US-Canada) to find *Caenorhabditis* species.

Caenorhabditis nematodes proliferate in rotting fruits that have fallen on soil below their tree (and are also found on snails, isopods, etc. that probably carry them to the fruits - cf. Barriere and Felix, Genetics 2007). Curiously pretty much the same as *Drosophila* and yeasts.... In the past years, 8 new *Caenorhabditis* species were found - in China, Portugal, US, Ghana, India, La Reunion and Guyana. With other colleagues, we also study the distribution and genetic structure of the different species, so we are also interested in getting the "old" ones, like *C. elegans* or *C. briggsae*. From the recent surge in new species since we sample rotting fruits, we are probably very far from exhausting the diversity of species around the world.

If you or someone you know are living or traveling outside of "Western" Europe (mostly France/UK/Germany; even Ireland, Italy or Scandinavia need sampling!) and US/Canada, I would be interested that you sample rotting fruits /vegetables/flowers (either wild or cultivated, below their tree). Samples of about 10-20 ml are good. They need to travel in aerated containers so that they don't start fermenting and depleting the oxygen, for example in plastic bags or 10-50 ml tubes which are not airtight (cap slightly unscrewed, or small hole in it). I could get worms out after 2-3 weeks of travel, provided they are not heated too much.

Note there is a prize for finding a sister species to *C. elegans* (cash + the right to propose a name). <http://www.wormbase.org/mt/wormbase/-archives/2007/09/11/10.14.02/> If you send the key sample, you'll get it....

Thank you to those who will bring/send me samples! French customs are not a problem to import live material. I can give you my fedex number if convenient. Don't hesitate to contact me if you have questions: felix@ijm.jussieu.fr.

With all my best wishes, Marie-Anne – Marie-Anne Felix Institut Jacques Monod, Tour 43, 2 place Jussieu, 75251 Paris Cedex 05, France Tel: +33-1-44-27-40-88; Fax: +33-1-44-27-52-65 (5th floor, corridor 43-42) <http://ijm2.ijm.jussieu.fr/~ijm/recherche/equipements/nematode> STRAINS: <http://www2.ijm.jussieu.fr/worms/search.php> Marie-Anne Felix <felix@ijm.jussieu.fr>

Sequencer advice

Hello - we are a group of three researchers that are purchasing a low to medium throughput sequencer for DNA sequencing and microsatellite genotyping. Because of the relatively low volume, ABI sequencers don't make sense for us, so we are contemplating a LI-COR (400 DNA Analyser) or Beckman-Coulter (GenomeLab GeXP).

Does anyone have any experience with either of these machines/manufacturers for both sequencing and genotyping? We have heard conflicting opinions from our own colleagues about the efficacy of these machines/manufacturers, and would like to know what the greater community thinks of these choices.

Many thanks.

Albrecht

Albrecht I. Schulte-Hostedde, PhD Associate Professor Director - Wildlife Research Station (<http://www.uoguelph.ca/~wrs/>) Chair - Animal Care Committee Department of Biology Laurentian University Sudbury, Ontario, Canada P3E 2C6 aschulte@laurentian.ca (705) 675-1151 x2356 <http://laurentian.ca/biology/~aschulte> aschulte@laurentian.ca aschulte@laurentian.ca

Software bms runner 1 2

Dear EvolDir,

bms_runner is free software to predict functional linkage among gene products, on the basis of correlated gain and loss of genes from genomes (Barker et al. 2007). It does this by helping the user to configure and repeatedly launch the separate BayesTraits program (Pagel et al. 2004).

bms_runner version 1.2 has just been released, with important improvements. bms_runner works under Linux or Mac OS X. It may be downloaded here:

<http://biology.st-andrews.ac.uk/cegg/software.html> I will be happy to receive any questions and feedback on bms_runner.

References:

Barker et al. 2007, <http://dx.doi.org/10.1093/bioinformatics/btl1558> Pagel et al. 2004, <http://dx.doi.org/10.1080/10635150490522232> Best regards,

Daniel

– Daniel Barker <http://bio.st-andrews.ac.uk/staff/db60.htm> The University of St Andrews is a charity registered in Scotland : No SC013532

db60@st-andrews.ac.uk db60@st-andrews.ac.uk

Software ForSim ForwardEvolutionarySimulation

We have produced a forward evolutionary computer simulation package, called *ForSim*, that can be used to simulate many aspects of the evolution of single or multilocus traits in diploid organisms, and also provide test data that can be used by to evaluate study design and other inferential questions in gene association, linkage, or heterogeneity studies. The program is forward rather than backward (coalescent), to allow minimal reliance on formal theory and maximum flexibility. This program tries to mimic natural evolution by phenotype, rather than assigning fitness or net phenotypic effects directly to individual genes. *ForSim* is not intended as competition with any other evolutionary simulation programs; each has its uses.

Users can specify many different conditions, including environmental effects; population size(s) and growth, subdivision histories with or without gene flow; phenotype-based mate choice or migration; various forms of natural selection (including none); mutation effect size distributions; and many other things. Indi-

vidual or multiple phenotypes can be simulated, that are affected by separate or overlapping sets of genes. Many situations not explicitly built into the program can be achieved by creative specification in the input file.

Users can also control how much output detail they want at the end or at specifiable points during the simulation, but standard output includes the entire simulated population(s) with phenotypes and phased genotypes for each individual, 3 (or more)-generational pedigrees, case-control samples, parent-offspring trios for tagSNP/LD testing, and a variety of diagnostic and analytic graphical files.

ForSim is entirely open-source. It's written in C++, and uses wrapper pre- and post-processing scripts written in Ruby. It has been tested on a variety of Unix/Linux/MacOS (32 or 64 bit) platforms, and should also run under Windows (such as with CygWin etc.), but we have not tested that. For full current functionality, the installation should also have available *R* for statistics, ClustalW for haplotype alignments, and Haploview for LD and tagSNP analysis.

This program is briefly described in *Bioinformatics* (online: “*ForSim*: a tool for exploring the genetic architecture of complex traits with controlled truth.” *Bioinformatics*, doi 10.1093/bioinformatics/btn317). The user Manual is browsable from http://www.anthro.psu.edu/weiss_lab/research.shtml

ForSim is available free, conditional on a non-commercialization open-source software agreement. The distribution tar file includes the program, an installation README file, the extensive user Manual, and a few other utilities. Of course, any software can have bugs, and we will issue revisions to registered users as they are caught. New flexibilities are planned for subsequent versions, depending on funding.

Anyone interested in trying or using *ForSim* should contact Brian Lambert (bwl1(at)psu.edu), or me (kenweiss(at)psu.edu).

Ken

–

Formal contact information:

Kenneth M Weiss, PhD Evan Pugh Professor of Anthropology and Genetics Professor of Biology Department of Anthropology Penn State University 409 Carpenter Bldg University Park, PA 16802-3404

Phone: 814.865.0989 (office) 814.237.9405 (home)
 Fax: 814.863.1474 Email: kenweiss(at)psu.edu (old ID kmw4(at)psu.edu, still works) Web page: http://www.anthro.psu.edu/weiss_lab/index.shtml Ken Weiss

<kenweiss@psu.edu>

Software LAMARC 2.1.3

We have just released version 2.1.3 of LAMARC. The LAMARC program estimates population parameters such as effective population size, migration rates, population growth rates and recombination rate from samples of molecular data.

The 2.1.3 release fixes an error in haplotype phase inference. Analyses which used this feature in versions 2.1.2 and 2.1.2b should be rerun. A symptom of this bug is very high acceptance rates for phase-reassessment updates. Runs which did not attempt phase inference are not affected.

We have also made several small improvements:

TRACER-compatible output is now usable even when the number of steps is very large.

Mapping output from gene-mapping runs is now written to a separate file, rather than lumped in with the parameter estimation output; this makes automation of mapping runs much easier.

A more recent version (2.8.8) of the wxWidgets graphics library has been used, increasing the chance that the graphical data converter will run correctly on diverse computer systems.

The new release of LAMARC can be downloaded from our web site:

<http://evolution.gs.washington.edu/lamarc.html> It is freely available, but please register so that we'll know how many people are using the software.

Best regards, The LAMARC development team:

Mary Kuhner Eric Rynes Elizabeth Walkup Jon Yamato lamarc@u.washington.edu

mkkuhner@u.washington.edu
 mkkuhner@u.washington.edu

mkkuhner@u.washington.edu

SouthAfrica FieldAssist ChatEvolution

Field assistant /volunteer to study evolution of group

living in Ant-eating Chats

Location, Benfontein, Nr Kimberly, South Africa

Time period 22 September to 12 December 2008

I am looking for a highly motivated field research assistant volunteer to join me working on the behavioural ecology of cooperative breeding in Ant-eating Chat, *Myrmecocichla formicivora*, and Capped Wheatear, *Oenanthe pileata*. The study will focus on factors behind the occurrence of delayed dispersal and cooperative breeding in the two species. We will also be examining broader questions concerning delayed dispersal in a range of South African bird species. The study site is Benfontein Game Farm (study centre), near Kimberly, Northern Cape, South Africa. Applicants should have a strong interest in bird orientated research. Field assistants are expected to be fit, able to work independently and be willing to take responsibility. Responsibilities will include trapping and colour-banding birds, re-sighting banded birds for territory mapping (including radio tracking tagged birds), nest-searching and monitoring, monitoring post-fledging survival, and behavioural observations. A driver's licence would be an advantage. The work will be done for 5-6 days per week, and the applicant need to be willing to work outside normal hours (some trapping and banding done at night, and early morning). The positions are available from 22 September to 12 December 2008. Accommodation is provided in the field study centre.

The project will cover airfare to South Africa and accommodation costs. To apply, please email a short letter stating why you are interested, a copy of your CV, including details of past field experience and bird handling experience, and the contact details for two referees, to Jonathan Barnaby at: Jonathan.Barnaby@ebc.uu.se

Please don't hesitate to contact me if you have any questions / for further information.

This research programme is part of a joint project of the Evolutionary Biology Centre, Uppsala University in collaboration with Percy FitzPatrick Institute, University of Cape Town.

Preferred qualifications: 1) Bachelors degree in biology or similar qualification 2) Sociable personality and motivated 3) Willing to work outside 5 days per week.

4) Drivers licence

5) Used to handle animals, bird banding experience would be a plus.

jonathan.barnaby@ebc.uu.se

SouthernFrance VolunteerFieldAssist AvianBehaviour

Volunteer/field assistant to study group and grouping decisions in House Sparrows

For 4 months: from the end of October 2008 until before Xmas and from the beginning of January until the first week of March 2009.

I seek a highly motivated volunteer/field assistant to help us with fieldwork. Our study site is located in the foothills of the Pyrenees in southern France. This season we will experimentally investigate group and grouping decisions in house sparrows. Since we will catch and ring frequently, ringing experience and familiarity of handling birds would be a merit. Field assistants are expected to be able to work independent and willing to take responsibility. We will work 5 days per week and it would be helpful to have drivers licence. Basic knowledge of French or Basque language will facilitate the work in the field since we frequently interact with the locals to catch birds around farm houses.

The study site is located close to the Pyrenees (ca. 15 km off St. Jean Pied du Port) in a small valley which is unaffected by tourism and is an excellent wildlife spot on one of the major European bird migration routes. The study site is within an hour's drive of the airports of Biarritz and Pau.

Qualifications: 1) Bachelors or MSc in biology or similar qualification 2) Sociable personality and motivated. 3) Willing to work outside 5 days per week. The climate at the study site during winter is mild and snow fall rarely. 4) Drivers licence would be useful 5) Used to handle animals, bird banding experience would be a plus.

The project will cover transport to and within study site, accommodation and food. Assistants with extensive bird banding or field work experience will be paid a salary of up to 500 per month.

If you are interested, send a short motivation letter stating why you are interested and your CV via email to:

michael.griesser@ebc.uu.se

Michael Griesser Population Biology Department of Ecology and Evolution Evolutionary Biology Centre SE-75236 Uppsala Sweden

Tel +46 (0)18 471 26 73 Fax +46 (0)18 471 64 24

michael.griesser@ebc.uu.se

www.popbiol.ebc.uu.se/default.php?type=3Dpersonalpage&lang=3Den&id=3D37

michael.griesser@ebc.uu.se

<http://->

Spanish Society for Evolution Collection

Dear EVOLDIR members,

Although it may be of primary interest for Spanish speakers/readers, I think the following announcement might be interesting for the general list. Best regards.

English version below:

La Teoría de la Evolución por Selección Natural de Charles Darwin constituye la base de la Biología, y la Sociedad Española de Biología Evolutiva, la SESBE, tiene como objetivo promover y difundir la Teoría Evolutiva en España. En sus casi tres años de andadura la sociedad ha consolidado su principal medio de difusión, la revista electrónica eVolución, ha promovido distintas actividades divulgativas y de discusión sobre la evolución, y ha generado numerosos documentos para que queden a disposición de científicos, profesores y aficionados a la biología en general (disponibles en la página web de la sociedad, www.sesbe.org < <http://www.sesbe.org/> >). A las puertas de la celebración del 150 aniversario de la publicación de "El origen de las especies", la SESBE ha puesto en marcha la Colección SESBE sobre Biología Evolutiva, una serie de libros escritos por científicos expertos en cada una de las áreas del saber influidas por la trascendencia de la Teoría Evolutiva.

Hoy la SESBE quiere anunciar la aparición del primer volumen de la colección, Los retos actuales del Darwinismo ¿Una teoría en crisis?, por Juan Moreno Klemming (Museo Nacional de Ciencias Naturales - CSIC). < <http://www.sesbe.org/sites/sesbe.org/files/-retos.moreno.jpeg> > En los últimos tiempos se ha propagado en los círculos científicos la idea de que la teoría de Darwin sobre evolución por selección natural ha perdido actualidad y vigencia, y de que existen paradigmas alternativos más adecuados. En su libro, Juan Moreno discute estos paradigmas y muestra cómo las evidencias aportadas por la paleobiología, la biología molecular y la ecología ponen de manifiesto la rabiosa actualidad del único mecanismo cono-

cido que explica la adaptación de los seres vivos en nuestro planeta: el propuesto por Darwin hace 150 años.

Este primer volumen de la colección ya está disponible en las librerías. No obstante, la SESBE quiere celebrar este acontecimiento poniendo el libro a disposición de cada uno de los miembros de la Sociedad de forma gratuita. Esperamos que esta iniciativa sea de tu agrado y que entre todos logremos difundir la trascendencia del legado de Darwin.

Atentamente,

Sociedad Española de Biología Evolutiva

(si te interesa hacerte socio, consulta los pasos a seguir en la página web de la sociedad www.sesbe.org < <http://www.sesbe.org/> >)

– Fernando Gonzalez

Dr. Fernando Gonzalez Candelas Instituto Cavanilles de Biodiversidad y Biología Evolutiva Dept. de Genética Universitat de Valencia Phone: (+34) 963 543 653 Apartado Oficial 22085 FAX: (+34) 963 543 670 E-46071 Valencia SPAIN e-mail: fernando.gonzalez@uv.es <http://www.uv.es/~%7Egonzalef/index.htm>

Charles Darwin's Theory of Evolution by Natural Selection is the basis of Biology and the Spanish Society for Evolutionary Biology (SESBE) has the goal of promoting and spreading Evolutionary Theory in Spain. Three years after its launching, the society has consolidated its main media, the electronic journal eVolución, has promoted several popularizing activities and discussions about evolution, and generated many documents available for scientists, teachers and those interested in Biology in general (available through the society's web site, www.sesbe.org < <http://www.sesbe.org/> >). Now that the commemoration of the 150th anniversary of "On The Origin of Species" is about to start, the SESBE has launched the SESBE Collection on Evolutionary Biology, a series of books by experts in the different areas of knowledge influenced by Evolutionary Theory.

Today, the SESBE announces the publication of the first volume in this collection, "Current challenges of Darwinism, a theory in crisis?" by Juan Moreno Klemming (from the Natural History Museum – Museo de Historia Natural-CSIC).

< <http://www.sesbe.org/sites/sesbe.org/files/-retos.moreno.jpeg> > In the last few years, the idea that Darwin's theory of evolution by natural selection has lost relevance and validity has spread in several scientific environments, with the implicit or

explicit support for

— / —

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>

Office: +52(646)175-0500 (ext. 24240) Lab:
+52(646)175-0500 (ext. 24318) Fax: +52(646)175-0587

Email: arocha@cicese.mx <http://dob.cicese.mx/labs/-ecolmolecular/index.html>

Axayacatl Rocha <arocha@cicese.mx>

Sterilizing plant pots

I would like to re-use lots of pots that have contained *Mimulus*, but want to make sure that they don't contain viable seeds. These are pretty cheap plastic, so autoclaving is out of the question. The seeds (belonging to the family Scrophulariaceae, or Phrymaceae, whatever), are very small, e.g., to get a good look at them requires about a 5x or more magnification. So I was thinking maybe a 10% Clorox (sodium hypochlorite) soaking for 10-15 minutes followed by a thorough rinsing with fresh water would do the trick to avoid contamination. Does anyone have any advice about this?

Thanks, Jeff Dole jadole@berkeley.edu

[jdole <jdole@berkeley.edu>](mailto:jdole@berkeley.edu)

Thermal Cycler Advice

Dear all,

I contemplate purchasing one of the new Biorad C1000 thermal cyclers (48/48). I would greatly appreciate receiving thru the back channel any comments (positive or negative) as to the reliability of this instrument or other Biorad cyclers, as well as your opinion on their service support.

Thanks in advance,

Axa

Axayacatl Rocha-Olivares, Ph.D. Biological Oceanography Department CICESE P. O. Box 434844 San Diego, CA, 92143-4844

DOMESTIC: Apartado Postal 360 Ensenada, Baja California, CP 22830 Mexico

COURIER: Km 107 Carretera Tijuana-Ensenada Ensenada, Baja California, CP 22860 Mexico

UNaples PlantEvolutionaryBiol errata corrige

I just discovered a wrong deadline (august 2006 instead of august 2008) in the submitted application.

thanks a lot,

PHD POSITION IN PLANT EVOLUTIONARY BIOLOGY

A Ph.D. position in plant evolutionary Biology is available at the Dept. Structural and Functional Biology, University of Naples Federico II, Italy, with Dr. Salvatore Cozzolino to study speciation and reproductive isolation in Mediterranean orchids. I am seeking a PhD candidate (3 yrs) with a strong interest in the evolution of reproductive isolation and speciation in plants. Our group is using orchids as a model system for ecological genetics and current research topics include hybridisation and introgression, habitat adaptation, reproductive isolation and speciation, mechanisms and consequences of specific pollinator attraction, genome evolution. For this PhD position two possible research projects are available. The two projects are embedded in a larger framework of evolutionary studies in Mediterranean orchids. For both projects, experience with experimental work and statistical analyses and the use and application of molecular methods to evolutionary problems are a must. One project will focus on the characterization of genes involved in species isolation by pollen-stigma interactions, by transcript profiling and functional study of candidate genes. For this project I am looking for one candidate with a strong background in molecular biology or biochemistry and plant developmental biology. The second project will investigate mechanisms and consequences of specific pollinator attraction in orchids species-pair, involving investigations on floral signals (scent), behavioural experiments, molecular analysis of hybrid zones with pollinators and plot experiments in the field. For this project, a background in evolutionary ecology and population genetics is desirable. The Dept. Structural and Functional Biology (see <<http://www.dbsf.unina.it/>>

><http://www.dbsf.unina.it/>) host 40 academic staff, a dozen of PostDoc, and 20 PhD students that investigate several biological topics and offers a supportive and stimulating environment, a state-of-the-art molecular labs, as well as climate chambers, greenhouses and common garden facilities. Naples has a large and very active research community and the University of Naples (www.unina.it) dealing with various aspects of organismal and molecular biology. The city also offers excellent opportunity for social life through active cultural programs and infrastructure, as well as an attractive surrounding including both sea and mountains in proximity. Funding is available for three years and we hope to appoint by October 2008. Candidates should have completed their Masters degree or equivalent (Diplom) in a relevant field and be very fluent in English. The closing date for applications is end August 2008. A letters of application, together with a full CV and the names of two referees should be sent by email to Dr Salvatore Cozzolino (cozzolin@unina.it)

Salvatore Cozzolino Dipartimento delle Scienze Biologiche (Sezione di Biologia Vegetale) Universita' di Napoli Federico II via Foria 223, I-80139 Napoli Italy tel +39 081 2538555 2538529 fax +39 081 2538523

Salvatore Cozzolino <cozzolin@unina.it>

WillowSawfly samples

Hi all,

I am a PhD student working on the willow sawfly (*Nematopus oligospilus*), family: Tenthredinidae) in Australia. The willow sawfly originates from North America (from Ireland to Southern Alaska to Mexico) and Europe (from Ireland to the Himalayas) and has become invasive in the southern hemisphere.

I am currently looking for samples from the northern hemisphere. If anyone come across a willow and find sawfly larvae, I would be extremely grateful if these could be preserved and make their way to this side of the world. I can pay for shipping.

You can contact me for more information: valerie.caron@sci.monash.edu.au
<<mailto:valerie.caron@sci.monash.edu.au>>

See following sites for *N. oligospilus* photos
http://www.weeds.org.au/WoNS/willows/-docs/Willow_Sawfly-Resource_Sheet3.pdf http://www.ento.csiro.au/about_insects/willow_sawfly.html

Thank you!

Valerie

Valerie Caron PhD candidate Monash University School of Biological Sciences Clayton, Victoria 3800 Australia Phone +61 (0) 3 9905 5675 Mobile: +61 (0) 4 3053 4646 Fax: +61 (0) 3 9905 5613

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va-

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BrownU Phylogenomics

I am currently seeking a postdoctoral researcher interested in the conceptual and practical problems of analyzing phylogenetic data from whole genomes and ESTs. This work will build on a recently published animal phylogeny (<http://dx.doi.org/10.1038/nature06614>) that considered 150 genes from 77 broadly sampled taxa, including 29 animals for which we collected new EST data. The primary research focus will be on homology identification (based largely on graph-theory approaches to building clusters of similar genes from pairwise similarity data) and paralogy evaluation (through phylogenetic methods). The postdoc will explore various theoretical aspects of these and related problems, and take part in the authorship of open-source software tools that will facilitate large-scale phylogenomic projects in labs without the expertise to build these tools from scratch. It is hoped that the successful candidate will take the initiative to investigate and build tools for other new challenges that are arising with the the growing use of high-throughput sequencing for phylogenetic problems. The candidate would be encouraged to get involved on the field, organismal, and wet-lab aspects of the research program if they so desire.

A thorough understanding of phylogenetic theory and extensive experience in the phylogenetic analysis of molecular data are essential. Strong unix skills, proficiency with one or more computer languages, and familiarity with relational databases are also required.

The position will remain open until filled, with the successful candidate starting as soon as is possible for them. Please send a cover letter outlining your interest

in the project, a current c.v., and contact information for 3 professional references to casey_dunn@brown.edu. More information on my lab can be found at:

http://www.brown.edu/Faculty/Dunn_Lab/index.php
 Dr. Casey Dunn http://www.brown.edu/Faculty/Dunn_Lab/index.php casey_dunn@brown.edu 80 Waterman Street office 401.863.9806 Box G-W lab 401.863.2242 Brown University siphonophores.org Providence, RI 02912 USA

casey_dunn@brown.edu casey_dunn@brown.edu

ChicagoFieldMuseum Phylogenetics

Postdoctoral Position in Computational Phylogenetics

The Biodiversity Synthesis Center, a component of the Encyclopedia of Life located at The Field Museum, invites applications for a two-year postdoctoral position in computational phylogenetics. We encourage those with recent Ph.D.s concentrating in evolutionary biology, phylogenetic systematics, and bioinformatics to apply.

The mandate of BioSynC is to advance biodiversity science associated with the EOL along three lines: (1) accelerating the pace of scientific discovery and advances in large-scale synthesis in biodiversity and evolution with the use of bioinformatics tools and the EOL; (2) providing a central location for scientific working groups to convene and explore synthetic biodiversity analyses involving the EOL; and (3) supporting the growth of EOL content and cross-disciplinary use of the EOL for scientific purposes.

Responsibilities: The successful candidate is ex-

pected to carry out original research in computational phylogenetics (e.g., phylogeny reconstruction, visualization, comparative methods, etc.) and contribute to the incorporation of phylogenetic information into the EOL, e.g., by convening and coordinating phyloinformatics synthesis groups to develop databases and tools for assembling and visualizing the Tree of Life, collaborative grant writing, hosting training workshops, etc.

***Qualifications*:** PhD in a relevant scientific field such as biology or evolution; experience in developing phylogenetic methods; expertise in computer programming; interest in group leadership and synthesis of ideas from multiple disciplines; excellent organizational skills and attention to detail.

***Workplace*:** BioSynC is a newly renovated space in the Field Museum of Natural History, Chicago, IL. Computational resources include a new 10-node, quad-core Linux cluster housed at FMNH, as well as resources available on the Illinois BioGrid, through collaborations with DePaul University. FMNH has an active and dynamic biodiversity research community, with extensive links to local universities, and the successful candidate will have to the opportunity to interact with a broad range of evolutionary biologists in a cosmopolitan setting.

The position is a full time appointment, two years in duration, with possibility for renewal. Salary is in the range of \$40-45,000, depending on experience, with the opportunity for obtaining grants supplement to the base salary. ***Applications are currently being accepted, with a target date of Sept. 1, 2008.*** The start date is negotiable, but is preferably in 2008. FMNH is an equal-opportunity employer.

Please send application materials (CV, cover letter, and contact information of three references) or inquiries by email to biosync@fieldmuseum.org

aaronowsky@fieldmuseum.org

ColoradoStateU PlantEvolutionGenomics

Postdoctoral Associate in Plant Evolution and Genomics, Fort Collins, Colorado

A postdoctoral position is available at Colorado State University. The successful applicant will work in the Plant Evolutionary Genetics Lab of Dr. John McKay.

www.mckaylab.colostate.edu We are looking for a highly motivated individual with a PhD in Evolution, Plant Physiology or Molecular Genomics and with the demonstrated ability to carry out outstanding research in Plant Genetics and Physiology. Preference will be given to candidates with experience with training and experience in Statistical Genomics/Bioinformatics and Quantitative Genetics. The successful applicant will interact and work collaboratively with others including faculty, post-docs graduate and undergraduate researchers at Colorado State and our collaborators at other institutions.

This Postdoctoral position is part of a collaboration to explore the evolution of plant growth and physiology. The goal of the project is to identify and physiologically characterize genes underlying naturally-occurring variation in growth rates using genome-wide molecular techniques and whole-plant physiology.

The position is available 1 Nov. 2008, but the start is flexible to some degree. Salary and benefits are competitive, and CSU is an excellent academic environment for the study of plant biology. Our lab group has excellent interactions with colleagues in bioinformatics, plant physiology, ecology, evolutionary genetics and molecular biology. Fort Collins is located on the Front Range of the Rockies and is ranked highly among great places to live.

If you are interested in this position, please send a letter of interest and a C.V. in pdf format via e-mail to jkmckay@colostate.edu Application deadline is 31 August 2008.

jkmckay@colostate.edu jkmckay@colostate.edu

CornellU RapidEvolution

We invite applications from prospective postdoctoral candidates to join our research project, "Contemporary Rapid Evolution: Dynamics and Persistence in Complex Ecological Communities", supported by the James S. McDonnell Foundation. Interested candidates should contact us directly (Nelson Hairston, Jr., ngh1@cornell.edu; Stephen Ellner, spe2@cornell.edu) with a brief statement of your background and interests, attaching your CV and providing contact information for 2 persons who could provide letters of reference.

Our broad goal is to understand the proximate and ultimate factors responsible for general patterns of popula-

tion variability, such as the ubiquity of stability and cycles and the rarity of more complex dynamical patterns. Work to date has centered on predator-prey (rotifer-algal) microcosms having the potential to exhibit a wide range of qualitative dynamics. Tightly linked experimental and theoretical studies have allowed us to show that feedbacks between ecological and evolutionary processes play an essential role in determining the system's dynamic properties. Future directions for experimental and theoretical work include: relationships between genetic variability and ecological dynamics; more complex experimental communities; management implications of rapid evolution; and extending the work to natural aquatic communities. Additional information is at www.jsmf.org/grants/d.php?id=07006.

We can provide at least 2 years of postdoc salary with a start date as early as September 1, 2008 and as late as January 1, 2009. The postdoc will have primary responsibility for planning and conducting microcosm experiments and for training and supervising undergraduate assistants on the project, but will be a full participant in all aspects of the project, both theoretical and experimental. Previous experience with aquatic microcosm/mesocosms will be helpful, but is not essential.

Representative publications from this research: Yoshida, T., Ellner, S. P., Jones, L. E., Bohannan, B. J. M., Lenski, R. E., Hairston, N. G., Jr. 2007. Cryptic population dynamics: rapid evolution masks trophic interactions. *PLOS - Biology* 5:1868-1879.

Jones, L. E. and S. P. Ellner. 2007. Effects of rapid prey evolution on predator-prey cycles. *J Math Biol* 55:541-573

Fussmann, G. G., S. P. Ellner, N. G. Hairston, Jr., L. E. Jones, K. W. Shertzer, and T. Yoshida. 2006. Ecological and evolutionary dynamics of experimental plankton communities. *Advances in Ecological Research* 37:221-243.

Yoshida, T., N. G. Hairston, Jr., and S. P. Ellner. 2004. Evolutionary tradeoff between defense against grazing and competitive ability in a simple unicellular alga, *Chlorella vulgaris*. *Proc Royal Soc London B* 271:1947-1953.

T. Yoshida, L.E. Jones, S.P. Ellner, G.F. Fussmann, and N. G. Hairston, Jr. 2003. Rapid evolution drives ecological dynamics in a predator-prey system. *Nature* 424: 303-306.

G. F. Fussmann, S.P. Ellner, and N.G. Hairston, Jr. 2003. Evolution as a critical component of plankton dynamics. *Proc Royal Soc London B* 270: 1015-1022.

S.P. Ellner and G.F. Fussmann. 2003. Effects of successional dynamics on metapopulation persistence. *Ecology*, 84: 882-889.

Shertzer, K.W., S.P. Ellner, G.F. Fussmann, and N.G. Hairston, Jr. 2002. Predator-prey cycles in an aquatic microcosm: testing hypotheses of mechanism. *Journal of Animal Ecology* 71: 802-815.

Shertzer, K.W. and S.P. Ellner. 2002. Energy storage and the evolution of population dynamics. *J Theor Biol* 215, 183-200.

G. Fussmann, S.P. Ellner, K.W. Shertzer, and N.G. Hairston, Jr. 2000. Crossing the Hopf bifurcation in a live predator-prey system. *Science* 290: 1358-1360.

Stephen P. Ellner (spe2@cornell.edu) Department of Ecology and Evolutionary Biology Corson Hall, Cornell University, Ithaca NY 14853-2701 Phone (607) 254-4221 FAX (607) 255-8088

spe2@cornell.edu spe2@cornell.edu

CornellU StatisticalGenomics

POSTDOCTORAL POSITIONS IN STATISTICAL GENOMICS CORNELL UNIVERSITY and WEILL CORNELL MEDICAL COLLEGE

Two postdoctoral positions are open to engage in collaborative research on the role of genomic polymorphism in variation in organ function and gene expression in health and disease. The collaboration is with Ronald Crystal and his research team in the Department of Genetic Medicine at the Weill Cornell Medical College (WCMC) in NYC:

< <http://www.med.cornell.edu/research/ronaldcrystal/> ><http://www.med.cornell.edu/research/ronaldcrystal/>

and the labs of Andrew Clark and Jason Mezey in Cornell University (Ithaca, NY):

< <http://www.mbg.cornell.edu/faculty-staff/faculty-clark.cfm> ><http://www.mbg.cornell.edu/faculty-staff/faculty-clark.cfm> <http://-mezeylab.cb.bscb.cornell.edu/>

The positions will be based in Ithaca under the direct supervision of Dr. Clark and/or Dr. Mezey (with regular trips to WCMC). Successful applicants will be part of the vibrant genomics and computational biology community at Cornell. The research is focused on the analysis of whole-genome expression and whole-genome SNP data in healthy individuals and individuals with disease.

State-of-the-art statistical methods in the areas of population genetics, association mapping, kernel methods, and regulatory pathway inference will be developed. Ideal applicants will have had training in statistics and/or computer science and research experience in any of the following areas: computational statistical inference, machine learning, semi-parametric network inference, the listed method development areas.

The positions are available immediately and will be left open until suitable candidates are found. Salary will be competitive and appropriate to applicant experience. To apply, email a cover letter, CV, and the names and contact information of three references to BOTH geneticmedicine@med.cornell.edu and Carly Ferguson <ctf8@cornell.edu>. EOE/AA/M/F/D/V

Jason G. Mezey Department of Biological Statistics and Computational Biology (BSCB) Cornell University 101 Biotechnology Building Ithaca, NY 14853 phone: 607-254-2881 fax: 607-255-4698 <http://www.bscb.cornell.edu/Homepages/Baseinfo/-jmezey.shtml> Jason Mezey <jgm45@cornell.edu>

ESF Programme ThermAdapt short-visit-exchange

***** PERMANENT CALL FOR SHORT-VISIT & EXCHANGE GRANT APPLICATIONS *****

In 2006 we launched a new ESF Programme on “Thermal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics” (ThermAdapt); see <http://www.esf.org/thermadapt> . The Objective of this ESF Programme is to foster a multidisciplinary European network of scientists working on thermal adaptation. We particularly aim to integrate research at multiple levels of investigation, including genetics, physiology, ecology, behaviour or theory. Interested persons or groups are encouraged to join our activities. These include advertising their expertise via our web site, and participation in various activities to be announced separately and regularly over the next 5 years such as workshops, training courses, short and long exchange grants, exchange of specimens and expertise, sharing of facilities, and scientific collaboration of any kind.

We PERMANENTLY call for applications for

==> Short Visit (< 15 days) and Exchange Grants (15 days - 3 months)

There is no particular deadline. Instead, submission of grant proposals is now PERMANENTLY OPENED, as explained on our web site <http://www.esf.org/thermadapt> under > Grants, where the application procedure is also outlined. These grants are competitive and open for all ranks (including MSc/PhD students). We shall periodically review submissions about every 3 to 4 months.

Proposals should be broadly related to the scientific objectives of the Programme. Short Visits may serve for planning collaborative research projects, brief data gathering or data analysis. The longer-term Exchange Grants typically involve planning and execution of a larger collaborative research project (under special circumstances stays longer than 3 months may be possible).

Grant applications will be chosen based on scientific quality, and priority will be given to applicants who come from or intend to visit countries supporting the programme (Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Hungary, Netherlands, Portugal, Slovenia, Spain, Switzerland), but other European nations can be involved.

For further inquiries, or if you wish to be included in the ThermAdapt e-mail list to receive regular updates on Programme activities, please contact:

Ellen Degott (ESF office liaison; Email: ede-gott@esf.org) Wolf Blanckenhorn (chair; Email: wolf.blanckenhorn@zm.uzh.ch) Mauro Santos (co-chair; Email: mauro.santos@uab.es)

Dr. Wolf Blanckenhorn Chairman ESF ThermAdapt Programme Zoological Museum University of Zurich-Irchel 34 (building)-J (floor) -98 (office) Winterthurerstrasse 190 CH-8057 Zurich

Phone: +41 44 635.47.55 Fax: +41 44 635.47.80 e-mail: wolf.blanckenhorn@zm.uzh.ch <http://www.esf.org/thermadapt> wolf.blanckenhorn@zm.uzh.ch

EU microarray postdocs PhDs

A new EU project MIDTAL will start either in Sept or October 2008. When the official start date is determined by the EU, the job announcements will appear in jobs.ac.uk. This project will make a universal microarray for the detection of toxic algae and their toxins. Microarrays are the state of the art technology in molecular biology for the processing of bulk samples for de-

tection of target RNA/DNA sequences. Existing rRNA probes and antibodies for toxic algal species/strains and their toxins will be adapted and optimized for microarray use to strengthened the EU's ability to monitor for toxic algae. The following institutes are partners in this project and will have the following positions available. Please contact the associated person if you would like to have some preliminary information about the project.
Coordinator Linda Medlin

Institute Person Position Email address

Marine Biological Assn. Plymouth, UK Linda Medlin
Post doc lkmedlin@awi-bremerhaven.de

Stazione Zoologica 'A. Dohrn' di Napoli, Ital Wiebe Kooistra Post doc kooistra@szn.it

University of Kalmar, Sweden Edna Graneli PhD student edna.graneli@hik.se

Instituto Español de Oceanografía Vigo, Spain Beatriz Reguera PhD student beatriz.reguera@vi.ieo.es

Martin Ryan Institute, National University of Ireland Robin Raine Post doc robin.raine@nuigalway.ie

University of Oslo Bente Edvardsen PhD student bente.edvardsen@bio.uio.no

University of Westminster Jane Lewis Post doc lewisjm@westminster.ac.uk

DHI Copenhagen, Denmark, Hanna Kaas Post doc or technician hka@dhigroup.com

INTECMAR Yolanda Pazos technician ypa-zos@intecmar.org

– thank you for your consideration

Dr. Linda Medlin Alfred Wegener Institute Am Handelshafen 12 D-27570 Bremerhaven Germany New Telephone Number and Fax Number below

Tel. 49-471-4831-1443 Fax. 49-471-4831-1425 see my homepage for latest projects and research results etc. http://www.awi.de/en/go/molecular_genetics

ImperialCollegeLondon Biodiversity

Division of Biology

Department of Life Sciences

Faculty of Natural Sciences

Research Associate

'Global Patterns of Diversification and Dispersal in Monocots'

Starting Salary: £28,910 per annum

Imperial College is ranked the fifth best university in the world (Times Higher QS World University Rankings 2007).

This is an exciting opportunity for a Research Associate with an interest in Evolutionary Ecology and Biodiversity. The successful candidate will work closely with Dr Vincent Savolainen and his research group and will be based at Silwood Park Campus. You will carry out cutting edge research investigating the global patterns of diversification and dispersal in monocotyledonous plants, conducting phylogenetic, DNA sequences and geographic analyses, as well as modelling dispersal/diversification at a global scale.

The successful candidate will have practical experience in phylogenetics and/or biodiversity modelling and strong interests in evolutionary ecology.

The post is funded by the Leverhulme Trust for a period of 2 years in the first instance (with a possible 1 year extension subject to available funding). Collaborating institute: Royal Botanic Gardens Kew.

Application Form, Job Description and Person Specification can be found at:

<http://www3.imperial.ac.uk/employment/research/ns2008124jt> Completed application forms accompanied by a curriculum vitae and the name and contact details of two referees should be sent to: Diana Anderson, Imperial College, Silwood Park Campus, Buckhurst Road, Ascot, Berkshire, SL5 7PY or by email to d.anderson@imperial.ac.uk

Closing date: 1 August 2008

Dr Vincent Savolainen Reader in Ecology and Evolutionary Biology Imperial College London, and Royal Botanic Gardens, Kew Silwood Park Campus Buckhurst Road, Ascot, Berkshire, SL5 7PY, UK Tel +44 (0)20 7594 2374 Fax +44 (0)20 7594 2339 v.savolainen@imperial.ac.uk or v.savolainen@kew.org <http://www3.imperial.ac.uk/people/v.savolainen> "Savolainen, Vincent" <v.savolainen@imperial.ac.uk>

Montpellier AdaptationMutation

Postdoctoral research fellowship in Evolutionary Ge-

netics in Montpellier (effect of mutations, theory of adaptation)

A postdoctoral fellowship is available at CEFE - CNRS (<http://www.cefe.cnrs.fr>), Montpellier, France, to work on the fitness effect of mutations a different environments. The work will be supervised by Thomas Lenormand (<http://www.cefe.cnrs.fr/ecogev/siteGB/ppGB/tl.htm>) and Santiago Elena (http://www.ibmcp.upv.es/sfelena/paginasfe_csic.htm). The fellowship is for one year, with a possibility of extension. The starting date is flexible, between November 2008 and May 2009.

The goal of the project is to conduct experiments directly aimed at testing the mutational fitness landscape models. The project will involve experiments measuring the effect of mutations in *E. coli* fitness across different environments. These experiments will be performed using mutant lines containing single mutations that are already available.

The CEFE laboratory is part of a very large community of research on evolution and ecology in Montpellier. The city of Montpellier is a vibrant student town with beautiful surroundings. Part of the project will also be performed in Valencia (Spain), another beautiful and lively city.

Required qualifications for applicants are 1) a PhD in Biology, Genetics, Evolutionary Biology, Microbiology, or in a related field, 2) experience in one or several of the following areas: microbiology, experimental evolution, population genetics, evolutionary biology, genetics, and 3) demonstrated verbal and written communication skills. Review of applications will begin immediately and continue until the position is filled.

If you have any questions, please contact thomas.lenormand@cefe.cnrs.fr To apply, send your CV, including contact information for two references, and a cover letter stating your research interest to

Thomas Lenormand CEFE - UMR 5175 1919 route de Mende F-34293 Montpellier cedex 5

Tel : 33 4 67 61 32 15 Fax: 33 4 67 41 21 38 Email: thomas.lenormand@cefe.cnrs.fr

Thomas.LENORMAND@cefe.cnrs.fr
Thomas.LENORMAND@cefe.cnrs.fr

NewcastleU CoralDisease

Dear coral-listers

Post-doctoral Position on "The impact of bleaching on disease susceptibility and defence in reef building corals"

A Natural Environment Research Council (NERC)-funded post-doctoral position is available for 2 years in the laboratory of John Bythell in the School of Biology at Newcastle University, UK, effective September 1st 2008 or as early as possible. Approx gross salary: £24,402 to £31,840 per year.

Field experiments will be based on Heron Island, QLD, Australia. This work is based on molecular microbial and microbiological methods to identify the change in bacterial community and on antimicrobial assays to assess the change in coral immune defences.

For further details of the project see: <http://www.ncl.ac.uk/biology/research/project/1667> Applications procedures will be posted on our departmental website (<http://www.ncl.ac.uk/biology/>) in the next 2-3 weeks and review of applications will begin now until the position is filled.

For informal enquiries please contact John Bythell: j.c.bythell@ncl.ac.uk

I will be in Fort Lauderdale for the 11th ICERS for discussion.

Prof John Bythell School of Biology Newcastle University UK

Office (+44)(0)191 222 6664 Lab (+44)(0)191 222 6589
 Fax (+44)(0)191 222 5229

**NewMexicoStateU
 PopulationGenetics**

NEW MEXICO STATE UNIVERSITY COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Position Available: Post Doctoral Fellow: NMSU, Department of Fish, Wildlife & Conservation Ecology. Full time - 12 months (1-3 year appointment contingent upon funding). Ph.D. (in hand by hire date) in Population or Quantitative Genetics, Genomics, Molecular Genetics, Conservation Biology, Aquatic Ecology, Evolutionary Biology or a closely related field. Training and experience in laboratory genetics including DNA extraction; PCR amplification of DNA fragments; development of microsatellite or other genetic markers;

knowledge of databases and other sources of information for genetic markers. Salary is commensurate with education and experience. Offer of employment contingent upon verification of individual's eligibility for employment in the US and upon completion of applicable background review. For complete job description visit: <http://hr.nmsu.edu/employment>. # 2008006507.

Reply to: Dr. David Cowley, Associate Professor, NMSU, Department of Fish, Wildlife & Conservation Ecology, PO Box 30003, MSC 4901, Las Cruces, NM 88003. Telephone: (575) 646-1346, E-mail: dcowley@nmsu.edu. Review of letter of interest discussing how the stated qualifications are met, resume or vita, unofficial transcripts, one or two reprints reflecting your accomplishments and names, addresses and phone numbers of three references will begin July 31, 2008 and continue until filled. Applications may be submitted by email.

NMSU is an EEO/AA employer.

dcowley@nmsu.edu

NewYorkU PlantEvolutionaryGenomics

Plant Molecular Evolution Postdoctoral Fellowship

A postdoctoral position is available immediately for an NSF-funded project (contingent on final approval) to reconstruct the phylogenies and examine the molecular evolution of all gene families in Arabidopsis and rice. The position is for one year, renewable annually for up to three years depending on satisfactory performance. The postdoctoral fellow will work directly with Michael Purugganan (NYU) and Rob DeSalle (AMNH), and is part of a larger project titled "The Arabidopsis Proteome Folding Project" (Richard Bonneau, NYU, PI). There are opportunities in this project to work with computational biologists on evolution of protein structure and function. The ideal candidate will have experience in phylogenetic and molecular evolutionary methods, as well as in computational/database techniques. The Center for Genomics and Systems Biology at NYU, where the postdoc will be based, is a dynamic group (<http://biology.as.nyu.edu/object/facilities.gsb.html>) and is located in the Greenwich Village campus in downtown Manhattan, and together with the Department of Biology (<http://www.nyu.edu/fas/dept/biology>), offers an outstanding

and collegial research environment.

We will continue to evaluate applications for this position until filled. Please send your CV and three letters of reference to: Michael Purugganan at mp132@nyu.edu. NYU is an Equal Opportunity/Affirmative Action Employer.

Michael Purugganan Dorothy Schiff Professor of Genomics

Department of Biology Center for Genomics and Systems Biology 100 Washington Square East New York University New York, NY 10003

Tel. (212) 992 9628 Web: <http://biology.as.nyu.edu/object/MichaelPurugganan.html> mp132@nyu.edu
mp132@nyu.edu

NewYorkU PlantPhylogenies

A postdoctoral position is available immediately for an NSF-funded project (contingent on final approval) to reconstruct the phylogenies and examine the molecular evolution of all gene families in Arabidopsis and rice. The position is for one year, renewable annually for up to three years depending on satisfactory performance. The postdoctoral fellow will work directly with Michael Purugganan (NYU) and Rob DeSalle (AMNH), and is part of a larger project titled "The Arabidopsis Proteome Folding Project" (Richard Bonneau, NYU, PI). There are opportunities in this project to work with computational biologists on evolution of protein structure and function. The ideal candidate will have experience in phylogenetic and molecular evolutionary methods. The Center for Genomics and Systems Biology at NYU, where the postdoc will be based, is a dynamic group (<http://biology.as.nyu.edu/object/facilities.gsb.html>) and is located in the Greenwich Village campus in downtown Manhattan, and together with the Department of Biology (<http://www.nyu.edu/fas/dept/biology>), offers an outstanding and collegial research environment.

The deadline for applications is August 15, 2008. Please send your CV and contact information for at least three individuals who can act as references to: Michael Purugganan at mp132@nyu.edu. NYU is an Equal Opportunity/Affirmative Action Employer.

Michael Purugganan Dorothy Schiff Professor of Genomics

Department of Biology Center for Genomics and Systems Biology 100 Washington Square East New York University New York, NY 10003

Tel. (212) 992 9628 Web: <http://biology.as.nyu.edu/object/MichaelPurugganan.html> mp132@nyu.edu
mp132@nyu.edu

NHM London 2 BioticResponse to Climate Change

The Natural History Museum Two temporary postdoctoral positions Biotic responses to Climate Change

The Natural History Museum is investing in a review of its collections to identify areas for future databasing and research relevant to climate change. Two researchers with PhD or equivalent experience are sought to undertake a collections review involving extensive interaction with curatorial and research staff. One post is for six months starting October 2008, the second is for 9 months starting August 2008 and will include a review of similar exercises in other museums. The posts will be based at the Museum in South Kensington. Candidates with experience of collections-based research in any taxonomic group are encouraged to apply. Salary will be up to £30,210 p.a. pro-rata. For job description and person specification please contact Emilie Tunstall on 020 7942 5865, or email e.tunstall@nhm.ac.uk. For informal discussion please contact Dr Mark Spencer on 020 7942 5787, m.spencer@nhm.ac.uk, or Prof Adrian Lister on 020 7942 5398, A.Lister@nhm.ac.uk. Closing date for applications: 14th July 2008.

Karen James <karj@nhm.ac.uk>

NHM London 2 BioticResponse to Climate Change revised

The Natural History Museum Two temporary postdoctoral positions Biotic responses to Climate Change

The Natural History Museum is investing in a review of its collections to identify areas for future databasing and research relevant to climate change. Two researchers with PhD or equivalent experience are sought

to undertake a collections review involving extensive interaction with curatorial and research staff. One post is for six months starting October 2008, the second is for 9 months starting August 2008 and will include a review of similar exercises in other museums. The posts will be based at the Museum in South Kensington. Candidates with experience of collections-based research in any taxonomic group are encouraged to apply. Salary will be up to £28,170 p.a. pro-rata. For further information, including a full job description, and to apply online please visit The Natural History Museum website at www.nhm.ac.uk/jobs <<http://www.nhm.ac.uk/jobs>>

Karen James <karj@nhm.ac.uk>

NHM London FlatwormEvoDevo

Postdoctoral Research Associate

The Natural History Museum, Department of Zoology

We are seeking to appoint a highly motivated and productive Postdoctoral Research Associate to join a new programme of research entitled "Developmental genes in the life cycle of a parasitic flatworm". This work seeks to characterize the roles of key homeotic genes in the processes of metamorphosis and segmentation in tapeworms and represents a major component in understanding the genetic processes underlying the evolution of parasitism in flatworms (see Olson. 2008. *Parasitol Int* 57:8-17). The successful candidate will use gene expression and suppression techniques in a beetle and mouse-hosted tapeworm model to explore the roles of Hox, ParaHox and other relevant genes (eg. -catenin). Techniques including whole-mount and genomic ISH, PCR-RACE, and Q-PCR will be employed, and methods for RNA interference will need to be adapted to a cestode model.

The post is funded by the BBSRC for up to three years and will be undertaken within the well-equipped laboratories of the Natural History Museum in South Kensington under the supervision of Dr Peter Olson. The appointment will be on a Band 5 pay scale starting at 29,000 pa.

Applicants should possess a background in molecular biology, parasitology or evolutionary developmental biology, with a Ph.D. in a related subject area. Significant experience in genetic manipulation including RNA-based techniques and a willingness to work with live animal cultures are prerequisites, and experience

with gene expression and functional genomic techniques such as ISH and RNAi is highly desirable. The successful applicant will have a strong publication record and proven experience in applying one of more of these multidisciplinary skills to a singular research question within or outside the field of parasitology.

Applications including a short CV, list of publications, names of three referees willing to provide a letter of recommendation upon request, and a brief statement on interest and qualifications should be sent to p.olson@nhm.ac.uk.

Closing date for applications: Oct 15, 2008.

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

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

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

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

marine invertebrates. The project will be jointly supervised by Dr Jon Evans and Dr Francisco Garcia-Gonzalez. Applicants must have a PhD in the fields of evolutionary biology or behavioural ecology. Practical experience with basic molecular techniques (PCR, fragment analysis, etc.) is also desirable.

The Centre for Evolutionary Biology incorporates expertise in sexual selection, and population, evolutionary, and molecular genetics. For further information visit our website at: < <http://www.ceb.uwa.edu.au/> ><http://www.ceb.uwa.edu.au/>

Expressions of interest and a brief CV detailing all publications and relevant experience should be sent by email to Dr Francisco Garcia-Gonzalez or Dr Jon Evans. The formal reviewing process will commence in early September 2008 with an anticipated start date of January 2009.

Dr Francisco Garcia-Gonzalez e-mail: pgarcia@cyllene.uwa.edu.au Tel: +61 8 6488 1773 FAX: +61 8 6488 1029

Dr Jonathan P. Evans e-mail: jonevans@cyllene.uwa.edu.au Tel: +61-8-6488 2010 FAX: +61-8-6488 1029

jonevans@cyllene.uwa.edu.au
jonevans@cyllene.uwa.edu.au

Perth SexualSelection-SpermCompetition

Postdoctoral Research Associate Centre for Evolutionary Biology, The University of Western Australia

Fixed-term 18 months Salary level: Level A, Step 6: \$AU 63,682

Sources of genetic and phenotypic variation in sexual selection A postdoctoral position is available at the Centre for Evolutionary Biology, University of Western Australia, to work on sexual selection and sperm competition in externally fertilizing species. The successful applicant will use quantitative genetic crossing designs and a combination of molecular techniques and computer-assisted sperm analyses to identify processes and mechanisms that bias fertilization success and paternity towards particular males. These topics will be addressed using western Australian rainbowfish (*Melanotaenia australis*) and broadcast spawning

PurdueU EvolutionaryGenet

Postdoc opportunity at Purdue University

A postdoc position in evolutionary genetics is available at Purdue University. Strong molecular and/or bioinformatic skills are essential, as this salamander project will likely involve empirical assays of alternative mRNA splicing and/or transcriptome analyses via Roche 454 sequencing. For more information, contact Andrew DeWoody at Purdue University or see <http://www.agriculture.purdue.edu/fnr/html/faculty/DeWoody/index.html>. The cost of living in West Lafayette is low, and we are only an hour from Indianapolis and two hours from Chicago. Motivated applicants should submit (as PDFs) a short letter of interest, a curriculum vitae, relevant reprints, and contact information for three references.

For more about our research on salamander parentage and MHC biology, see:

Bos D.H. & DeWoody J.A. (2005) Molecular character-

ization of major histocompatibility complex class II alleles in wild tiger salamanders (*Ambystoma tigrinum*). *Immunogenetics* 57, 775-781.

Gopurenko D., Williams R.N., McCormick C. & DeWoody J.A. (2006) Insights into the aggregate breeding biology of the tiger salamander (*Ambystoma tigrinum*) as revealed by genetic parentage analyses. *Molecular Ecology* 15:1917-1928.

Gopurenko D., Williams R.N. & DeWoody J.A. (2007) Reproductive and mating success in the small-mouthed salamander (*Ambystoma texanum*) estimated via microsatellite parentage analysis. *Evolutionary Biology* 34:130-139.

Bos D.H., Turner S.M. & DeWoody J.A. (2007) Haplotype inference from diploid sequence data: evaluating the performance of Bayesian methods using non-neutral MHC sequences. *Hereditas* 144:228-234.

Bos D.H., Gopurenko D., Williams R.N. & DeWoody J.A. (2008) Inferring population history and demography using microsatellites, mitochondrial DNA, and major histocompatibility complex (MHC) genes. *Evolution* 62:1458-1468.

Bulut, Z., McCormick C.R., Bos D.H. & DeWoody J.A. (2008) Polymorphism for alternative splicing of major histocompatibility complex (MHC) transcripts in wild tiger salamanders. *Journal of Molecular Evolution* (in press) DOI 10.1007/s00239-008-9125-1.

Williams R.N., Bos D.H., Gopurenko D. & DeWoody J.A. (2008) Inbreeding and amphibian malformations. *Biology Letters* (in press) DOI 10.1098/rsbl.2008.0233.

dewoody@purdue.edu dewoody@purdue.edu

RutgersU MolecularSystematics

POSTDOCTORAL POSITION A two year postdoctoral research position is available at Rutgers University, working in the laboratory of Karl Kjer. Kjer is a molecular systematist, who also includes morphology, and has strong ties to the laboratory of Ralph Holzenthal at the University of Minnesota. We expect that there will be a great deal of cross training available in this position, between molecular and organismal biology, as well as theoretical work in alignment and data treatment. This is an NSF-funded phylogenetics position, to construct a world-wide phylogeny of Trichoptera genera. We plan to include about 500

of the 600 genera of Trichoptera in a molecular and morphological study. Although there is a sequencing requirement, the postdoc will have time to pursue individual interests. We are looking for a creative and independent scientist. Although we are interested in "skills", we are not looking for any skills in particular. We would be just as likely to hire a skilled morphologist, who wishes to add a molecular component to their work, as we would be likely to hire a seasoned bench worker. Of course, molecular experience is relevant as well, as is experience with Trichoptera, or computer skills. We are interested in a person who might bring new ideas, as well as familiar techniques. The position pays about \$35,000 per year, and includes health benefits. The starting time is very flexible, but preference will be given to applicants who will be ready to start within the next 6 months. Rutgers is located in the middle of New Jersey, between Philadelphia and New York City. Interested candidates should send an E-mail that outlines what they can bring to the project, their CV, and their single most important publication to kjer@aesop.rutgers.edu After an initial screening, we will ask for three letters of recommendation. Applicants are encouraged to E-mail for more details as well.

KJER@AESOP.Rutgers.edu

SwanseaU SalmonEvolution

Postdoctoral Position in Salmon Evolutionary Ecology

An EU-funded (SALSEA-MERGE) postdoctoral position is available for 20 months starting on September 2008 at the Department of Environmental and Molecular Biosciences (Swansea University; <http://www.swan.ac.uk/biosci/> < <http://www.swan.ac.uk/biosci/> >) in collaboration with the Institute of Biological, Environmental and Rural Sciences (Aberystwyth University; <http://www.aber.ac.uk/biology/> < <http://www.aber.ac.uk/biology/> >). SALSEA-MERGE combines genetic and ecological investigations to infer the migration and distribution of Atlantic salmon at sea, and seeks to understand the reasons for the high marine mortality and widespread decline of Atlantic salmon across its range. (see <http://www.nasco.int/sas/salseamerge.htm>)

The successful candidate will work on the development of a genetic database to support the identification of the region and river of origin of Atlantic salmon captured at sea, and will undertake a molecular analysis of

growth patterns and natural selection at different time scales. The work will involve microsatellite typing, as well as the development of a suite of SNP markers for mitochondrial DNA in collaboration with partners at the FRS Freshwater Laboratory (Pitlochry, Scotland).

Required qualifications: - PhD in evolutionary biology, population genetics, molecular ecology or a related topic - Research experience and first-authored publications on the above mentioned topics

Salary will be in the range £25,135 to £28,290 per annum, depending on experience and qualifications.

Informal enquiries can be directed to Dr. Carlos Garcia de Leaniz c.garciadeleaniz@swansea.ac.uk <<mailto:c.garciadeleaniz@swansea.ac.uk>>

<http://www.swan.ac.uk/staff/academic/EnvironmentSociety/BiologicalSciences/deLeanizcarlosgarcia/> < <http://www.swan.ac.uk/staff/academic/EnvironmentSociety/BiologicalSciences/deLeanizcarlosgarcia/> >

or to Dr. Sonia Consuegra skc@aber.ac.uk <<mailto:skc@aber.ac.uk>> ; http://www.aber.ac.uk/biology/dept/sonia_consuegra.html < http://www.aber.ac.uk/biology/dept/sonia_consuegra.html >

Applicants should send a covering letter summarizing their research background and interests, a recent CV, and contact details of three referees. An application form and further details may be obtained from the Personnel Department, Swansea University, Singleton Park, Swansea, SA2 8PP, tel. (01792) 295136 (24 hours) quoting reference number 4853 or at <http://www.swan.ac.uk/personnel/Vacancies/Research/PostTitle,24349.en.php> The closing date for applications is Thursday July 17th. Interviews are expected to be carried out on July 2008.

Dr. Carlos Garcia de Leaniz Swansea University Biological Sciences Singleton Park, SA2 8PP Swansea, UK Tel. +44 (0) 1792 295383 Fax. +44 (0) 1792 295447

Darwin Initiative: HYPERLINK "<http://www.biodiversity.cl/> < <http://www.biodiversity.cl/> > "www.biodiversity.cl < <http://www.biodiversity.cl/> >

"GarciaDeLeaniz C." <C.GarciaDeLeaniz@swansea.ac.uk>

UAdelaide AncientDNA

Developing new methods to retrieve and analyse preserved genetic information for forensics, archaeology

and ancient DNA.

ARC Senior Research Associate Australian Centre for Ancient DNA (ACAD) School of Earth and Environmental Sciences

Job Reference Number: 15126

A three year Australian Research Council (ARC)-funded Postdoctoral position is available at the Australian Centre for Ancient DNA in Adelaide (<http://www.ees.adelaide.edu.au/acad/>). The project is to research and develop revolutionary new methods to extract and characterise DNA from a range of unusual ancient samples including ancient bones and teeth, sunken ship timbers, stone tools, sediments and other ancient materials. The project is an ARC LINKAGE collaboration with the National Geographic Society, Australian Federal Police, and Forensics South Australia. The main aim of the project is to comprehensively re-assess and re-design current approaches to ancient/damaged DNA characterisation from the ground up, and to develop and extend recent new molecular approaches to DNA recovery and detection such as SPEX (Brotherton et al. NAR 2007), paleogenomic library construction and new approaches to sequencing.

You will need a first-rate knowledge and experience of practical molecular biology, and expertise in nucleic acids biochemistry. You should have a demonstrated ability to work from a first principles basis, with minimal reliance on kits and pre-designed systems. The work will be experimentally challenging due to the difficult nature of the genetic templates, but this is a rewarding opportunity to undertake a complete overhaul of current ancient DNA and molecular archaeological practice. An interest in ancient DNA, archaeology or natural history would be very useful.

The position will be supported by a full time Technician, and will make use of the international quality ACAD facilities, and an extensive collection of >4,000 ancient samples from locations around the world covering the past 200,000 years.

You should have: o a PhD or equivalent in Molecular Biology, Nucleic Acids Biochemistry or equivalent o demonstrated knowledge and experience of molecular biology laboratory methods at the most fundamental levels o excellent written and oral communication skills with the ability to liaise collaborate and interact with a wide range of international scientific researchers o experience with advanced computational packages

Salary: (Level B) \$70,075 - \$83,215 per annum.

Plus an employer superannuation contribution of 17% may apply.

This fixed-term position is available immediately for a period of 3 years. Adelaide University is one of the 'Group of 8' leading Universities in Australia, in a cosmopolitan city offering an outstanding quality of life, with excellent food and wine and a low cost of living.

Further information may be obtained from Dr Jeremy Austin jeremy.austin@adelaide.edu.au, Prof. Alan Cooper, alan.cooper@adelaide.edu.au, Dr Wolfgang Haak (wolfgang.haak@adelaide.edu.au), or Dr Kefei Chen (kefei.Chen@adelaide.edu.au).

Deadline: 15 August 2008

Your application must include your résumé/Curriculum Vitae to address the selection criteria to quote the relevant reference number to include the names, addresses and/or email details of three referees

Email applications to Maria Lekis <maria.lekis@adelaide.edu.au> or forward in duplicate to:

Maria Lekis School of Earth and Environmental Sciences The University of Adelaide South Australia 5005

–

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/acad/>
alan.cooper@adelaide.edu.au

UAlgarve Charophyte Systematics

Postdoc: Charophyte systematics - U of the Algarve
POSTDOCTORAL POSITION

Applications are invited for a postdoctoral researcher position* in charophyte systematics at Centro de Ciências do Mar (CCMAR - <http://www.ccmар.ualg.pt/>), at the University of the Algarve (<http://www.ualg.pt/>).

Background The endosymbiosis of an oxygenic photobacterium by a eukaryotic host cell leading to the evolution of the chloroplast, and the subsequent colonisation of land by plants, were pivotal events in cell and Earth history. The transition to land marked an unparalleled period of morphological and developmental

innovation in plant form resulting in the formation of plant-dominated terrestrial ecosystems with global environmental effects. Relationships among charophyte algae and land plants, on either side of the boundary marking the transition to land, remain controversial and make it difficult to polarise what are thought to be the key developmental innovations underpinning colonisation of land.

The postdoctoral researcher will explore the morphological diversity, life-history and developmental characteristics, and phylogenetic relationships among the charophyte algae in relation to the evolutionary transition of plants to a terrestrial environment. It is essential that the candidate have a Ph.D. and a strong background in green algal systematics and molecular phylogenetic methodology. Unix/Linux computing skills, and the ability to programme in a scripting language, would be highly advantageous.

The position is available for 3 years from January 2009 and is open to all nationalities. The researcher will receive a salary of 1495 euros/month.

Applications should be submitted before 15th August 2008 to Cymon J. Cox (cymon@ualg.pt). Applicants should send a covering letter detailing their research interests, a current C.V., and the email addresses for 3 professional referees. Informal enquires are welcome to the same address.

CCMAR is located on the Gambelas campus, 4km from Faro, the capital city of the Algarve and close to Faro International Airport (FAO). (http://www.ualg.pt/-index.php?option=3Dcom_google_maps&Itemid=3D2311&lang=en)

(* all postdoctoral positions must be proposed to and approved by the Portuguese Foundation for Science and Technology FCT)

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Cymon J. Cox

Centro de Ciências do Mar Faculdade de Ciências do Mar e Ambient (FCMA) Universidade do Algarve Campus de Gambelas 8005-139 Faro Portugal

cymon.cox@googlemail.com

UAlberta Plant EvoDevo

A postdoctoral position is available to investigate how changes in gene regulation have led to variation in fruit

morphology within the tribe Brassiceae (Brassicaceae). The primary research will entail a range of evodevo genetic experiments examining gene expression patterns, regulation, and function. Interest in plant evolution and development is essential. Experience in molecular evolutionary methods and transformations will also be considered an asset.

The successful applicant will join the research team supervised by Dr. Jocelyn Hall at the University of Alberta. The Department of Biological Sciences (<http://www.biology.ualberta.ca>) provides an outstanding research environment, which consists of over 70 faculty members, 280 graduate students and postdoctoral researchers, and world-class infrastructure.

The position is a full time two to three-year appointment. Salary is competitive, and negotiable depending on research qualifications. To apply for the position: please email Dr. Jocelyn Hall, jocelyn.hall@ualberta.ca, with a cover letter outlining your interest, your C.V., and contact information for two references. Application deadline is 10 September 2008. Informal enquiries are welcome.

Jocelyn Hall Assistant Professor Department of Biological Sciences University of Alberta Edmonton, Alberta T6G 2E9 CANADA

office phone: (780) 492-8611 departmental fax: (780) 492-9234 email: jocelyn.hall@ualberta.ca http://www.biology.ualberta.ca/faculty/jocelyn_hall/ jocelyn.hall@ualberta.ca

UBritishColumbia PopulusPopGenetics

8 postdocs are offered in natural genomic variation of *Populus trichocarpa* in British Columbia, Canada, in relation to biofuels and growth traits. The first two positions will probably be of greatest interest to evoldir readers. However as natural variation is being studied, through whole genome scans, the entire project has an adaptation/evolution flavour. The advertisement, with details of how to apply, follows. – Quentin Cronk, Professor in Plant Science, University of British Columbia

ADVERTISEMENT Poplar biofuels: Postdoctoral positions in bioinformatics, genomics, molecular biology, and biochemistry

University of British Columbia, Vancouver BC, Canada

Eight postdoctoral positions in bioinformatics, genomics, molecular biology, and biochemistry are available as part of a recently funded Genome British Columbia Applied Genomics Innovation Program (AGIP) project 'Optimized *Populus* feedstocks and novel enzyme systems for a British Columbia bioenergy sector'. Positions will be for two to three years, starting in the Fall of 2008, and will be located at the University of British Columbia.

This multi-investigator project is centered at the University of British Columbia (Departments of Botany, Wood Science, Forest Sciences, the Centre for Plant Research, and the Michael Smith Laboratories), with collaborators at the University of Victoria, and the support of technology platforms at the Vancouver Genome Sciences Centre, Prostate Centre Microarray Facility, and Centre for Molecular Medicine and Therapeutics (CMMT). International collaborators include the US Department of Energy, USDA Forest Service, and Umea Plant Science Center. If interested, please forward a cover letter indicating the position you are interested in, a CV, and the names of three references via email with the subject 'AGIP Biofuels Position' to:

Carl Douglas, Project Leader AGIP Biofuels Department of Botany University of British Columbia Vancouver BC V6T 1Z4 CANADA E-mail: cdouglas@interchange.ubc.ca

Inquiries can also be made to: Shawn Mansfield Co-project leader E-mail: Shawn.mansfield@ubc.ca

Postdoctoral Fellow position - Bioinformatics for population genomics As part of a team investigating the variation in natural populations of the completely sequenced model tree *Populus trichocarpa* (with particular reference to cellulosic biofuel traits), you will pioneer whole genome SNP discovery using massive parallel sequencing (Solexa) data. You will coordinate the assembly of short read data by bioinformatics staff at the Genome Sciences Centre, Vancouver. You will be responsible, together with the project database bioinformatician, for pipelining and databasing the SNPs. You will also be responsible for analytical work on the SNP variation patterns, including detection of the signature of selection and QTN detection, and for targeting 6000 SNPs of interest for expanded sampling using Illumina SNP detection platforms. The position represents a superb opportunity to work at the leading edge of population genomics and your work will underpin a major tree biology project. Experience with one or more of the following would be an advantage: next generation sequencing, short read assembly, perl programming, database management, statistical genetics, SNP detection assays and selection detection algorithms.

Postdoctoral Fellow - Massive parallel sequencing, SNP detection and association genetics. As part of a team investigating the variation in natural populations of the completely sequenced model tree *Populus trichocarpa* (with particular reference to cellulosic biofuel traits), you will be responsible for the genome resequencing of trees from natural populations using chip-capture technology and Solexa sequencing. Your data will be analyzed and pipelined by bioinformatics colleagues. You will also be responsible for large-scale SNP assays involving >6000 SNPs and hundreds of trees using the Illumina Golden Gate system, and in collaborating with phenotypers and bioinformaticians to perform large scale association analyses with an extensive range of phenotypic traits. You will have access to state-of-the-art genomics platforms at the Vancouver Genome Sciences Centre and at the Centre for Molecular Medicine and Therapeutics. The project offers the chance to work at the forefront of connecting genome and phenotype in forest trees. Experience with some or all of the following would be advantageous: RNA purification, microarray technology, SNP detection assays, population genetics.

Three Postdoctoral Fellow positions - candidate gene discovery and analysis As part of a team investigating the variation in natural populations of the completely sequenced model tree *Populus trichocarpa* (with particular reference to cellulosic biofuel traits), you will be responsible for performing experiments to study *Populus* candidate genes that may be

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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>

UChicago EvolutionTranscriptionNetworks

Applications are invited for a postdoctoral research associate with Ilya Ruvinsky in the Department of Ecology & Evolution and the Institute for Genomics and Systems Biology at the University of Chicago.

The project will focus on understanding the mechanisms responsible for evolutionary and physiological robustness of transcriptional networks. We are using *C. elegans* as a primary model system. The project

will provide ample opportunities for collaboration with other groups both within and outside the University of Chicago.

Candidates must have a Ph.D. in Genetics, Molecular or Evolutionary Biology or related field. The ideal candidate will be creative, energetic and have excellent communication skills. All candidates are expected to have a background or interest in molecular evolutionary genetics. In addition, the candidates should have expertise in molecular biology, particularly using genetics in model organisms, and computational skills.

To apply, please submit applications (by e-mail to I. Ruvinsky), including (1) a CV, (2) brief statement of past accomplishments and PDFs of most relevant publications, (3) research interests and (4) names and contact information of three referees. Review of applications will begin immediately and will continue until the position is filled.

Ilya Ruvinsky Department of Ecology & Evolution The University of Chicago e-mail - ruvinsky@uchicago.edu <http://pondside.uchicago.edu/ecol-evol/faculty/ruvinsky.i.html> Ilya Ruvinsky <ruvinsky@uchicago.edu>

UCologne TheoPopGenetics

Job: Postdoc - Position in Theoretical Population Genetics at the University of Cologne

A postdoc position is available in the group "Bioinformatics and Population Genetics" (bipg.genetik.uni-koeln.de) at the Institute of Genetics, University of Cologne, Germany.

The research focus for this position will be on mathematical modeling and/or statistical analysis of population genetical data and processes. In particular, we are interested in studying the consequences of epistatic interactions of genes upon measurable patterns of genetic or genomic variability.

The prospective lab member has completed a PhD programme either in mathematics, statistics or physics, ideally with application to population genetical problems, or in molecular or evolutionary biology with strong emphasis on quantitative methods.

The position is initially for a duration of 1.5 years and compensated according to German salary scale TVL-E13. The exact salary depends on experience (before

tax it is in the approximate range from 2,800 to 3,400 Euros). The starting date for this position is negotiable.

The Institute of Genetics in Cologne (www.genetics.uni-koeln.de) is among the largest Genetics institutes in Germany. Research activities in evolutionary biology are supported by a nationally funded research network (www.sfb680.uni-koeln.de) which comprises groups from Genetics and Theoretical Physics as well as other biological institutes in Cologne. Evolutionary Biology is currently being expanded into one of the research focus areas at the University of Cologne.

Applicants are invited to send their documents electronically and in PDF format to Thomas Wiehe (twiehe@uni-koeln.de). Application documents should include C.V. and publication list, a summary of past and future research interests, and the names and email addresses of three potential referees. Informal pre-inquiries may also be directed to the address above.

Review of candidates starts immediately until the position is filled. Thomas Wiehe

– Thomas Wiehe Institut fuer Genetik Universitaet zu Koeln Zuelpicher Strasse 47 50674 Koeln Germany Tel 0049 221 470 1588 Fax 0049 221 470 1630

Thomas Wiehe <twiehe@uni-koeln.de>

UEdinburgh BehaviouralEvolution

Postdoc: Edinburgh, Behavioural Evolution

Postdoc Research Associate in Behavioural Evolution at The University of Edinburgh,

We seek an enthusiastic and focused behavioural evolutionist to work on parent-offspring communication in the burying beetle *Nicrophorus vespilloides*. The aim of the project is to test between different models for the evolution of parent-offspring communication. The job will involve behavioural experiments, statistical analysis of data, writing of articles based on the collected data and rearing of experimental beetles. A PhD in a related area and experience with empirical work from the laboratory or the field are essential. Expertise in parent-offspring conflict and/or animal communication is desirable.

The position is for one year, and the salary is £28,290. Closing date: 8th August 2008. Start date: 1st September 2008 or as soon thereafter.

Apply online at: <http://www.jobs.ed.ac.uk/vacancies/-index.cfm?fuseaction=vacancies.index>. Vacancy reference no: 3009546. Please provide CV, cover letter and contact information for two referees.

For informal enquiries, please contact: per.t.smiseth@ed.ac.uk.

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Per Terje Smiseth <psmiseth@staffmail.ed.ac.uk>

ULeuven ancientDNA

CENTER FOR ARCHAEOLOGICAL SCIENCES (K.U.Leuven)

Postdoctoral position in ancient DNA studies

The aim of the project is to develop methodology for the analysis of ancient DNA of diverse biological origin (human, animal, plant and/or pathogens) in archaeological finds such as skeletons, coprolites, ceramics and sediments. He/she will make use of the recently installed 454 Life Sciences GSFlex facility at the Center of Human Genetics. The project itself is not strictly defined and the successful candidate will have the opportunity to focus on some analytical aspects of ancient DNA or the analysis of ancient DNA data in an evolutionary or population genetic perspective. The project includes also collaboration with other disciplines within the Center for Archaeological Sciences. Currently research within the field of ancient DNA analysis is focused on the population genetics of past human populations at Sagalassos, a Roman-Byzantine city in South-West Turkey, and the domestication of pigs in Anatolia during the Neolithic until the Iron Age.

We seek a candidate with a strong background in molecular biology, population genetics and/or evolutionary genetics. Experience with 454 Life Sciences technology, phylogenetics and/or phylogeography, including previous work in an ancient DNA laboratory, is beneficial but not a prerequisite.

Applicants should send a letter of interest together with a CV, research interests and the names of 3 references to ronny.decorte@med.kuleuven.be

Funding is available until 30/09/2010. Starting date is as soon as possible.

The University of Leuven (founded In 1425;

www.kuleuven.be) is one of the oldest universities in Western Europe, and today the largest in Belgium. The Center for Archaeological Sciences (www.sagalassos.be/CAS/) is an interdisciplinary research centre aiming to provide archaeologists (national and international) the opportunity for in-depth analysis of their finds with the help of several disciplines in exact and biomedical sciences, and engineering. Ancient DNA studies will be performed at the Laboratory of Forensic Genetics and Molecular Archaeology (Department of Human Genetics and Department of Forensic Medicine - www.forensicgenetics.be).

Prof. Dr. Ronny Decorte University Hospitals K.U.Leuven Department of Human Genetics - Center for Forensic Medicine Laboratory of Forensic Genetics and Molecular Archaeology Herestraat 49 - bus 602 3000 Leuven BELGIUM

ronny.decorte@uz.kuleuven.ac.be
ronny.decorte@uz.kuleuven.ac.be

UMichigan EvolutionaryBiol

The Michigan Society of Fellows invites applications to its postdoctoral fellowship program for recent PhDs in the humanities, arts, sciences, and professions. These three-year positions at the University of Michigan are open to recent PhDs who wish to pursue research opportunities while teaching at a major research university. Eight fellowships are available, with an annual stipend of \$51,500. Four of these fellowships will be awarded in the humanities, with the support of the Andrew W. Mellon Foundation. Applications must be submitted electronically by midnight September 30, 2008. The online application is available at www.rackham.umich.edu/Faculty/sof.html. Questions may be submitted to society.of.fellows@umich.edu.

wittkopp@umich.edu wittkopp@umich.edu

UNottingham snail chirality

Postdoctoral Research Fellow

Institute of Genetics / School of Biology, University of Nottingham

Unwinding snail chirality

Applications are invited for a postdoctoral research fellow to work on a three-year project, funded by the BBSRC, on "Unwinding snail chirality".

Although multiple lines of enquiry remain, a deep-seated theoretical problem has stoked a burning interest in understanding the symmetry-breaking event during development - how is one side of an organism consistently distinguished from the other, given that the side that is called 'right' is essentially arbitrary? Although most prior research has concentrated on models such as the mouse, chick and frog, we believe that the pond *Lymnaea* may be a crucial organism in coming to understand asymmetry, because their chirality is determined very early in development.

The objective of this project is to take advantage of the latest advances in DNA sequencing technology to clone and characterize the determinant of chirality in snails, by a novel method that we term "massive subtractive linkage analysis" (MSLA). A parallel PDRA in Professor Mark Blaxter's lab at the University of Edinburgh (to be advertised separately) will lead the bioinformatic analyses, and there will also be collaboration with David Lambert's lab in Rochester, New York.

Candidates must possess a PhD in molecular genetics or equivalent qualification in a related discipline. Experience of working with RNA and cDNA libraries is essential, as is a meticulous approach to lab work and note-keeping. Experience of high-precision PCR work, genotyping, and micromanipulation of embryos (e.g. microinjection) would also be highly desirable.

Salary range £25888 - £33780 per annum, depending on qualifications and experience (salary can progress to £36912 per annum subject to performance). This post is funded by the BBSRC for a fixed-term of three years, with a provisional start date of October 1st, but with flexibility on the precise start date.

Informal enquiries are encouraged and should be addressed to Dr. Angus Davison, tel: 0115 823 0322 Email: angus.davison@nott.ac.uk, or Dr. Aziz Aboobaker Email: aziz.aboobaker@nott.ac.uk. For the bioinformatic post, a separate enquiry should be made to Prof. Mark Blaxter Email mark.blaxter@ed.ac.uk

Additional information on Dr. Davison's research is available at <http://www.nottingham.ac.uk/biology/-contacts/davison/research.php> Additional information on Prof. Blaxter's research is available at <http://www.nematodes.org/> To formally apply, candidates for the University of Nottingham position should apply online (<http://jobs.nottingham.ac.uk/>) or send a detailed CV and covering letter, together with the names and

addresses of two referees, to Dr A Davison, School of Biology, The University of Nottingham, Medical School, Queen's Medical Centre, Nottingham, NG7 2UH. Note: we are still waiting for a job reference code and the details are not yet on the University website.

Closing date: Friday 22nd August.

Additional information

For an organism to become asymmetric, bilateral symmetry must somehow be broken during development. Although multiple lines of enquiry remain, a deep-seated theoretical problem has stoked a burning interest in understanding the symmetry-breaking event - how is one side of an organism consistently distinguished from the other, given that the side that is called 'right' is essentially arbitrary? In the hypothetical view of Brown and Wolpert, the solution is provided by a pre-existing asymmetric molecular reference: an asymmetric gradient is created if an 'F-molecule' aligns with anterior-posterior and dorsal-ventral axes, so transporting an effector molecule towards the left or right. Asymmetry is thus entirely dependent upon the chirality (and subsequent alignment) of the F-molecule.

To attempt to validate the hypothesis, attention has focussed on the mouse, chick and zebrafish. In these model organisms, it has been found that rotational beating of cilia in the early gastrula creates an asymmetric extracellular fluid movement. It has therefore been argued that this is the symmetry-breaking step - the chirality of ciliary motor proteins leads to directional fluid movement, ultimately determining the molecular and morphological asymmetry.

The unfortunate problem, however, is that a body of research indicates that the symmetry-breaking event sometimes occurs much earlier and at the intracellular level, preceding the commencement of ciliary movement. Together, the results suggest that in invertebrates and at least some vertebrates, molecular asymmetry is established early in embryogenesis, with morphological asymmetry only becoming apparent later. In consequence, the field of left-right patterning is "in

— / —

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>

UOxford PopulationGenetics

University of Oxford

Wellcome Trust Centre for Human Genetics

3 X Post Doctoral Scientists Academic-related Grade 8: £34,793 - £41,545 depending on qualifications and experience, but if no suitable applicants are identified at this grade the positions may be offered at grade 7: £27,466 - £33,780 with an appropriate change of duties

NOTE: Deadline for application is 21st July

Up to three postdoctoral research positions are available to work on the statistical and evolutionary analysis of data arising from large-scale studies of human genomic variation including the 1000 Genomes Project (www.1000genomes.org) and the Wellcome Trust Case Control Consortium (www.wtccc.org.uk). Posts are available to work in a broad range of areas. Up to two posts are available to work within the 1000 Genomes Project on experimental design, the development of statistical methodology for the analysis of whole-genome low-coverage short-read sequencing data and population-genetic analysis of fundamental evolutionary processes including recombination, natural selection and demographic history. One post is available to work within the continuation of the Wellcome Trust Case-Control Consortium, which aims to fine-map variation driving association signals between SNP variation and multiple human diseases, and to look for associations between disease and CNVs. The posts would be working primarily within the groups of Gil McVean (who co-chairs the analysis group of the 1000 Genomes Project), Peter Donnelly (who chairs the WTCCC) and Chris Spencer. More details about the projects are available from the detailed job descriptions available on request.

Candidates should have an existing background in either statistical and population genetics or modern computational statistics and its application. Candidates from the mathematical and physical sciences wishing to move in the field of genetics are encouraged to apply. Good computational skills are essential. Candidates should have a doctorate in statistical genetics, population genetics, statistics, mathematics or computer science.

To obtain more details of the positions, please contact the Personnel Officer (email: personnel@well.ox.ac.uk, tel: 01865 287508 or from our web page www.well.ox.ac.uk/vacancies), quoting reference H5-08-043-GM. Applications, in the form of a full and detailed CV together with the names and addresses of two referees, should be sent to the Personnel Officer at the Wellcome Trust Centre for Human Genetics, Roosevelt Drive Oxford, OX3 7BN, or by email to; person-

nel@well.ox.ac.uk, or fax; 01865 287516. Please quote the reference number on your application. If candidates wish to be considered for one of the positions only, please state this within your application. The closing date for applications is 21st July 2008.

Gilean McVean Professor of Statistical Genetics Department of Statistics 1 South Parks Road Oxford OX1 3TG UK

Tel: +44 1865 281881 Fax: +44 1865 281333
web: <http://www.stats.ox.ac.uk/~mcvean>
mcvean@stats.ox.ac.uk mcvean@stats.ox.ac.uk

UPoitiers Endosymbiont Evolutionary Genomics

Postdoctoral Position in Endosymbiont Evolutionary Genomics

A postdoctoral position is available in the group of Richard Cordaux at the Laboratory of Ecology, Evolution, Symbiosis (LEES, UMR CNRS 6556), University of Poitiers, France. This position is part of a research project funded by the Centre National de la Recherche Scientifique (ATIP CNRS).

Wolbachia are intracellular inherited bacteria of arthropods and nematodes, with whom they interact through a variety of symbiotic associations, ranging from parasitism to mutualism. These bacteria are gaining increasing interest as a biological model because of their potential roles in evolutionary processes, insect disease vector and agricultural pest control and human filarial diseases. The successful applicant will use a combination of computational and wet-bench approaches to investigate the evolution and genomic impact of Wolbachia transposable elements (see e.g. Cordaux 2008 Gene 409, 20-27; Cordaux et al. 2008 Mol Biol Evol doi:10.1093/molbev/msn134).

Applicants should have a Ph.D. degree and training in evolution, biology, bioinformatics or a related field. The ideal candidate will have prior research experience with transposable elements. The initial appointment is for one year and can be extended for another year upon mutual agreement. The position is available immediately and opened to citizens from any country.

Poitiers is a pleasant city in western France, located 1h30 southwest of Paris by train and 1 hour east of the Atlantic coast by car. Additional information about the LEES can be found at: [\[ecoevol.labo.univ-poitiers.fr/spip.php?rubrique32\]\(http://ecoevol.labo.univ-poitiers.fr/spip.php?rubrique32\) Applicants are requested to send a detailed curriculum vitae, statement of research interests, reprints of recent papers, and the names and contact details of three referees.](http://-</p>
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Applications and informal enquiries should be addressed to Richard Cordaux (richard.cordaux@univ-poitiers.fr).

– Richard Cordaux, Ph.D.

University of Poitiers UMR CNRS 6556 Ecology, Evolution, Symbiosis 40 Avenue du Recteur Pineau 86022 Poitiers Cedex France Tel: +33 (0)5 49 45 36 51 Fax: +33 (0)5 49 45 40 15 E-mail: richard.cordaux@univ-poitiers.fr Lab website: <http://ecoevol.labo.univ-poitiers.fr/> Personal website: <http://site.voila.fr/rcordaux> richard.cordaux@univ-poitiers.fr

UPorto Evolutionary Genomics

POSTDOCTORAL PROPOSALS Selection of candidates for a grant proposal to submit to the Portuguese Foundation for Science and Technology

We accept applicants for a Postdoctoral grant proposal to be submitted to the Portuguese Foundation for the Science and Technology under the following topics:

1. “A molecular genomic approach to unravel the evolution of natural toxins”. Gene families, which encode toxins, are found in many marine animals (from deadly poisoning jellyfishes to sea snakes), yet there is limited understanding of their evolution at the nucleotide level and the evolutionary significance of their protein mutations. Understanding the evolution of ecological specialization is important for making inferences about the origins of natural toxins biodiversity.

2. ÂGenomic diversity of proto-eukaryotes symbiosisÂ. Harvesting light to produce energy and oxygen (photosynthesis) is the signature of all land plants. This ability was co-opted from a precocious and ancient form of life known as cyanobacteria. The most widespread cyanobacterial symbiosis is that of plastids in eukaryotes that happened more than 2 billion years ago. However, much more recent episodes of symbioses occurred between cyanobacteria and eukaryotic hosts, both non-photosynthetic (from marine sponges to ascidians) and photosynthetic (from diatoms to the flowering plants) hosts. Characterizing the evolutionary mechanism underlying such genetic cooperation is fundamental to un-

derstanding the origin of genomic symbiosis.

3. "Global phylogeny and biogeography of cyanobacteria species". It is much debated whether microorganisms are easily dispersed globally or whether they, like many macro-organisms, have historical biogeographies. Recent findings using faster evolving genetic markers in protozoa species revealed considerable genetic structure and suggested that protest biodiversity may be significantly higher than previously thought.

4. "Genomic research on the chimerical origin of Eukaryotic genomes". Eukaryotic genomes are replete with genes of eubacterial ancestry, namely from the Cyanobacteria, the Proteobacteria, and the Thermoplasmatales. These signals correspond to distinct symbiotic partners involved in eukaryote evolution: plastids, mitochondria, and the elusive host lineage. Evaluating the evolutionary relationships between such ancient relationships is important for making inferences about the origins and diversification of life.

5. "A genome-wide sequencing study to characterize genes responsible for the development and adaptation in Vertebrates". Major phenotypic changes in vertebrates (from mammals to fish), occurred by the evolution of various gene products over the last half billion years. Understanding the genetic basis of the diversification of development genes in vertebrates can provide fundamental biological insight about species evolution, ecological fitness, and genetic diseases.

The granted candidates will have a monthly salary of 1495 euros and will develop their work at CIMAR, University of Porto, Portugal (<http://www.cimar.org/>). The candidates should have a PhD in Molecular Evolution, Genomics, Population Genetics or other related fields of research.

The candidates should include: - Detailed curriculum vitae; - Scanned copy of the PhD degree.

The applications should be submitted till 15 August 2008 by email to Dr Agostinho Antunes (aantunes@ncifcrf.gov)

Agostinho Antunes <aantunes@ncifcrf.gov>

USheffield Genomics

A postdoctoral position, funded by the European Research Council (ERC), is available in Dr Jon Slate's research group (<http://www.jon-slate.staff.shef.ac.uk/>)

at the University of Sheffield. This is an outstanding opportunity to apply cutting edge genomics technologies (ultra-high throughput sequencing and SNP genotyping) to study microevolution in a classic long-term, individual-based study system - the great tit *Parus major* population at Wytham Woods Oxford (<http://www.zoo.ox.ac.uk/egi/research/studysites.htm>).

I am looking for somebody with a track record of publishing in leading journals and well-developed skills in one or more of the following areas: evolutionary quantitative genetics, bioinformatics, comparative genomics, QTL mapping, statistical genetics. The postdoc will work as part of a team of three (with the PI and one other postdoc) investigating the genetic basis of adaptive variation in a system which has been the focus of intensive evolutionary ecology and quantitative genetic studies (e.g. Garant et al. 2005 *Nature* 433: 60-65; Charmantier et al 2008 *Science* 320: 800-803) but where genomics resources are currently lacking. In this project we will use high-throughput sequencing to sequence the great tit transcriptome. SNP markers will then be used to build a linkage map. Nearly all of the molecular work will be outsourced. We will then use QTL mapping approaches to address questions relevant to microevolution. For example publications from our laboratory see Gratten et al. 2008 *Science* 319, 318-320. The project involves close collaboration with Professor Ben Sheldon (Oxford University) and his research group (<http://www.zoo.ox.ac.uk/egi/index.htm>).

Dr Slate's group are based within the vibrant Department of Animal & Plant Sciences at the University of Sheffield. In the last Research Assessment Exercise (RAE) the department was awarded a 5* rating making it equal 1st ranked in the UK for organismal biology. It was recently ranked 7th best Environment/Ecology research institution in the world by Thomson Scientific. Sheffield is a fantastic place to live, situated on the edge of the Peak District National Park (<http://www.visitpeakdistrict.com/>). It is also one of the most affordable cities in the UK and has a good music, arts and culture scene.

The position is available from 1st September 2008 and is funded for up to five years; I anticipate that successful candidates may use this as a stepping-stone to an independent fellowship. The closing date is 15th August 2008. For further details and online applications see <http://www.sheffield.ac.uk/jobs/-research.html>, quoting job reference number RO6467. The salary is in the range £26,665 - £33,780 per annum. I welcome informal enquiries (j.slate@sheffield.ac.uk)

Please note - the closing date for this post has been extended. If you have already applied for it, I have your

CV already and am considering your application.

Dr Jon Slate Dept. Animal & Plant Sciences University of Sheffield Tel: 0114 2220048 Fax: 0114 2220002 Web: <http://www.jon-slate.staff.shef.ac.uk/>

j.slate@sheffield.ac.uk

USheffield GreatTit Evolution

Dear Brian, I would be most grateful if the following postdoc ad was placed on EvoDir. Many thanks Jon

A postdoctoral position, funded by the European Research Council (ERC), is available in Dr Jon Slate's research group (<http://www.jon-slate.staff.shef.ac.uk/>) at the University of Sheffield. This is an outstanding opportunity to apply cutting edge genomics technologies (ultra-high throughput sequencing and SNP genotyping) to study microevolution in a classic long-term, individual-based study system - the great tit *Parus major* population at Wytham Woods Oxford (<http://www.zoo.ox.ac.uk/egi/research/studysites.htm>).

I am looking for somebody with a track record of publishing in leading journals and well-developed skills in one or more of the following areas: evolutionary quantitative genetics, bioinformatics, comparative genomics, QTL mapping, statistical genetics. The postdoc will work as part of a team of three (with the PI and one other postdoc) investigating the genetic basis of adaptive variation in a system which has been the focus of intensive evolutionary ecology and quantitative genetic studies (e.g. Garant et al. 2005 *Nature* 433: 60-65; Charmantier et al 2008 *Science* 320: 800-803) but where genomics resources are currently lacking. In this project we will use high-throughput sequencing to sequence the great tit transcriptome. SNP markers will then be used to build a linkage map. Nearly all of the molecular work will be outsourced. We will then use QTL mapping approaches to address questions relevant to microevolution. For example publications from our laboratory see Gratten et al. 2008 *Science* 319, 318-320. The project involves close collaboration with Professor Ben Sheldon (Oxford University) and his research group (<http://www.zoo.ox.ac.uk/egi/index.htm>).

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It was recently ranked 7th best Environment/Ecology research institution in the world by Thomson Scientific. Sheffield is a fantastic place to live, situated on the edge of the Peak District National Park (<http://www.visitpeakdistrict.com/>). It is also one of the most affordable cities in the UK and has a good music, arts and culture scene.

The position is available from 1st September 2008 and is funded for up to five years; I anticipate that successful candidates may use this as a stepping-stone to an independent fellowship. The closing date is 16th July 2008. For further details and online applications see <http://www.sheffield.ac.uk/jobs/research.html>, quoting job reference number RO6467. The salary is in the range £26,665 - £33,780 per annum. I welcome informal enquiries (j.slate@sheffield.ac.uk)

Dr Jon Slate Dept. Animal & Plant Sciences University of Sheffield Tel: 0114 2220048 Fax: 0114 2220002 Web: <http://www.jon-slate.staff.shef.ac.uk/>

j.slate@sheffield.ac.uk j.slate@sheffield.ac.uk

USouthDakota ConservationGenetics

I am currently seeking a postdoctoral researcher interested in working on the conservation genetics of the endangered Hines emerald dragonfly (*Somatochlora hineana*). Hines emerald dragonfly has been particularly impacted by urban development in its fen habitat in riparian areas near Chicago, IL. We are developing microsatellite markers to elucidate the population genetic structure of the dragonfly in disturbed areas in Illinois and relatively undisturbed areas in Wisconsin. We are also obtaining mtDNA sequences to be used in analyses at larger spatial scales. Because of its endangered status, we are further refining nondestructive means of obtaining samples from both adult and larval dragonflies. The genetics portion of the study is part of a larger effort to develop methods to monitor Hines populations and better understand its ecology. Additional work in my lab includes investigation of the population genetic structure of prairie dog fleas (*Oropsylla* spp.) in relation to the spread of sylvatic plague and the population genetic structure of the endangered Uncompahgre fritillary butterfly (*Boloria acrocnema*).

Minimum qualifications include: 1) Ph.D. in biology or related field, 2) experience in obtaining and analyzing microsatellite data, and 3) good written and oral com-

munication skills. The position will remain open until filled. Start date: August 1, 2008. Position duration: 2 years. Salary: \$35,000/year and benefits. Please send a cover letter outlining your interest in the project, a current c.v. and contact information for 3 professional references to:

Dr. Hugh Britten Department of Biology University of South Dakota Vermillion, SD 57069 hbritten@usd.edu <mailto:hbritten@usd.edu>

Hugh.Britten@usd.edu Hugh.Britten@usd.edu

UWashington Bioinformatics PopGenet

Organization*: School of Aquatic and Fishery Sciences, College of Ocean and Fishery Sciences, University of Washington

Title: 2 Research Associates: 1 bioinformatics and 1 population genetics

Position details:

The School of Aquatic and Fishery Sciences (SAFS < <http://fish.washington.edu/> >) at the University of Washington has openings for two postdoctoral *Research Associates (100% time) *to conduct research on SNP discovery using next generation sequencing or possibly SNP applications in Pacific salmon. These are 2-year positions with the possibility to extend depending upon funding. The positions are not eligible for tenure.

The general scope of the appointments may include but is not limited to:

- Development SNPs using next generation sequencing and resequencing.

- Bioinformatics.

- Original research on salmon population genetics and conservation.

- Work with regional fisheries managers to apply SNP research to contemporary problems.

- Formulation of problems, analysis of data, production of scientific papers, and presentation at scientific meetings.

- Mentor and otherwise assist graduate students who are doing projects in salmon genetics and supervise hourly help involved in data analysis.

- Mentor visiting scientists from Russia and Japan who

are cooperating on international SNP data bases.

//

Requirements:

* Ph.D. in genetics, biology, or a related field**

The following experience is desired:

- Expertise in DNA sequencing

- Expertise in bioinformatics

Positions are located at the University of Washington, Seattle, WA. The University of Washington is an affirmative action, equal opportunity employer. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans.

“University of Washington faculty engage in teaching, research and service.”

Interested persons should/ send/ CV, letter of intent including names and contact information for three references via email to /Dr. Jim Seeb, School of Aquatic and Fishery Sciences/, University of Washington (/jseeb@u.washington.edu <mailto:rayh@u.washington.edu>/). Application deadline is July 30, 2008./ /For successful candidates, a background check for criminal history is required.

Jim Seeb <jseeb@u.washington.edu>

UYork PlantPhylogeography

Dear all, apologies for the repeat posting, this ad didn't make it out to a lot of people as I failed to specify it was a postdoc position.

The York Institute for Tropical Ecosystem Dynamics (KITE) is seeking to appoint a Senior Research Fellow to work within the KITE project, ideally within the area of plant phylogeography.

The successful applicant will use DNA sequence data to investigate the historical biogeography of tropical forest forming species in an East African biodiversity hotspot, the Eastern Arc Mountains. He/she will work as part of a multidisciplinary team integrating modelling studies, palaeoecological, phytosociological, and phylogenetic data to examine past, present and future impacts of environmental change within the region. As such, this work will have a particular focus on investi-

gating the age and divergence of mountain forest populations relative to the wider region in the context of investigating hypothesised impacts of past climatic changes. This project will utilise existing published and unpublished chloroplast sequence data, in combination with further data to be derived from field samples and herbarium specimens. Candidates must be experienced in molecular lab work and sequence-based phylogenetic data analysis.

Full details can be found on the University of York (UK) vacancies webpages (<http://www.york.ac.uk/-univ/mis/cfm/jobs/>) under research jobs, ref R08215.

Informal enquiries can be made to Rob Marchant (rm524@york.ac.uk) or Alistair Jump (aj523@york.ac.uk)

—

Alistair Jump Environment Department University of York Heslington York YO10 5DD UK

www.biogeography.org www.york.ac.uk/res/kite/

aj523@york.ac.uk aj523@york.ac.uk

Vienna EvolutionaryGenetics

Post-Doc Research Scientist Position in Evolutionary Genetics

We seek a bright and motivated scientist capable of supervising a genetics laboratory, writing grant proposals, and interested in collaborating with students and scientists at our institute. A PhD and strong background in genetics, statistical analyses, and evolution biology, molecular ecology or behavioral ecology is required, and post-doc experience is preferred.

The institute has a well-equipped genetics laboratory, technicians, and animal facilities (see: <http://www.oeaw.ac.at/klivv/>). Vienna is generally ranked as one of the top cities in the world to live and English is commonly spoken. The institute operates bilingually, but some German is useful.

The position is initially for three years, with renewal possible (promotion to Senior Scientist after five years is possible). Salary depends upon experience. Review of applications begins immediately and will continue until an applicant is chosen. To apply, please send (preferably via email) (1) CV, (2) select publications, (3) a brief statement of research interests, (4) names of 3 people who can be contacted for letters of reference to

the address below.

Dustin J. Penn, Director and Senior Scientist Konrad Lorenz Institute for Ethology Austrian Academy of Sciences Savoyenstrasse 1a A-1160 Vienna, Austria Tel: +43 51581 2700 Fax: +43 51581 2800

A.Katzer@klivv.oeaw.ac.at A.Katzer@klivv.oeaw.ac.at

Vienna EvolutionaryGenetics 2

Post-Doc Research Scientist Position in Evolutionary Genetics

We seek a bright and motivated scientist capable of supervising a genetics laboratory, writing grant proposals, and interested in collaborating with students and scientists at our institute. A PhD and strong background in genetics, statistical analyses, and evolution biology, molecular ecology or behavioral ecology is required, and post-doc experience is preferred.

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Dustin J. Penn, Director and Senior Scientist Konrad Lorenz Institute for Ethology Austrian Academy of Sciences Savoyenstrasse 1a A-1160 Vienna, Austria Tel: +43 51581 2700 Fax: +43 51581 2800 office@klivv.oeaw.ac.at

Alexandra Katzer <A.Katzer@klivv.oeaw.ac.at>

Zurich EvolutionaryModeling

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 500 people work on topics related to the sustainable use and protection of the environment and on an integrated approach to handling natural hazards. The Research Unit Land Use Dynamics investigates pattern and processes of land use change and is involved in a larger research project of the center of competence "Environment and Sustainability" at ETH Zurich. For this project we are looking for a

Post-Doc evolutionary modelling and spatial genetics

You will develop theoretical models of the spatial distribution of organisms; evaluate the patterns with genetic methods and field data; investigate the effects of landscape fragmentation on populations; improve existing empirical models and publish your results in international peer-reviewed scientific journals.

Your qualifications: PhD in Evolutionary/Environmental Sciences or Geography, sound evolutionary understanding, strong background and experience in the development and application of theoretical and empirical evolutionary models, experience in GIS (ArcGIS), statistics (SAS, R) as well as spatial analysis, experienced in literature search, development of concepts, programming and data analysis. You are motivated, innovative and a teamplayer.

Interested? Please send your complete application and list of publications, using reference number 548 to Mrs. Monika Huber, Human Resources WSL, Zuercherstrasse 111, CH-8903 Birmensdorf, Switzerland. Prof. Dr. F. Kienast, Tel. +41-44 739 23 66, will be happy to answer any questions or offer further information. URL of institution: http://www.wsl.ch/index_EN?-C=&KienastFelix <felix.kienast@wsl.ch>

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ColdSpringHarbor ComputationalGenetics

Course announcement - Application deadline, July 15, 2008

Cold Spring Harbor COMPUTATIONAL & COMPARATIVE GENOMICS November 5 - 11, 2008 Application Deadline: July 15, 2008

INSTRUCTORS:

Pearson, William, Ph.D., University of Virginia, Charlottesville, VA Smith, Randall, Ph.D., SmithKline Beecham Pharmaceuticals, King of Prussia, PA

Beyond BLAST and FASTA - Alignment: from proteins to genomes - This course presents a comprehensive overview of the theory and practice of computational methods for extracting the maximum amount of information from protein and DNA sequence similarity through sequence database searches, statistical analysis, and multiple sequence alignment, and genome scale alignment. Additional topics include gene finding, identifying signals in unaligned sequences, integration of genetic and sequence information in biological databases.

The course combines lectures with hands-on exercises; students are encouraged to pose challenging sequence analysis problems using their own data. The course makes extensive use of local WWW pages to present problem sets and the computing tools to solve them. Students use Windows and Mac workstations attached to a UNIX server.

The course is designed for biologists seeking advanced training in biological sequence analysis, computational biology core resource directors and staff, and for scientists in other disciplines, such as computer science, who wish to survey current research problems in biological sequence analysis and comparative genomics.

The primary focus of the Computational and Comparative Genomics Course is the theory and practice of algorithms used in computational biology, with the goal of using current methods more effectively and developing new algorithms. Cold Spring Harbor also offers a "Programming for Biology" course, which focuses more on software development.

For additional information and the lecture schedule and problem sets for the 2007 course, see:

<http://fasta.bioch.virginia.edu/cshl07> To apply to the course, fill out and send in the form at:

http://meetings.cshl.edu/course/-courseapp_instr.shtml Bill Pearson

wrp@virginia.edu

CzechRepublic MolEvol Jan12-30

Workshop on Molecular Evolution, Europe

Cesky Krumlov, Czech Republic

12 - 23 January 2009, individual research session 23 - 30 January 2009

Application Deadline: 1 September 2008

<http://workshop.molecularevolution.org/> Michael P. Cummings and Scott A. Handley, Co-Directors

The Workshop on Molecular Evolution has been the finest course on the subject since first offered in 1988 in Woods Hole, USA. For the first time the Workshop will be offered in Europe in January 2009. The Workshop consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of molecular evolution. Faculty are chosen exclusively for their effectiveness in teaching theory and practice in molec-

ular evolution. Included among the faculty are developers and other experts in the use of computer programs and packages such as BLAST, BEAST, Clustal W and Clustal X, FASTA, FigTree, Genealogical Sorting Index, GARLI, LAMARC, MAFFT, Migrate-N, MrBayes, PAML, PAUP*, and SeaView who provide demonstrations and consultations.

The course is designed for established investigators, postdoctoral scholars, and advanced graduate students with prior experience in molecular evolution and related fields. Scientists with strong interests in molecular evolution, phylogenetics, population genetics, and related fields are encouraged to apply for admission. Scheduled lectures and computer laboratories total ~90 hours of instruction. An optional all-computer laboratory of 54+ hours of independent work with guidance and consultation of some faculty and teaching assistants is offered during the third week. Admission is limited and highly competitive, with admissions decisions determined by an international committee.

Topics to be covered include:

- Databases and sequence matching: database searching: protein sequence versus protein structure; homology; mathematical, statistical, and theoretical aspects of sequence database searches
- Phylogenetic analysis: theoretical, mathematical and statistical bases; sampling properties of sequence data; Bayesian analysis; hypothesis testing
- Maximum likelihood theory and practice in phylogenetics and population genetics: coalescent theory; maximum likelihood estimation of population genetic parameters
- Molecular evolution integrated at organism and higher levels: population biology; biogeography; ecology; systematics and conservation; population genetics
- Molecular evolution and development: gene duplication and divergence; gene family organization; coordinated expression in evolution
- Comparative genomics: genome content; genome structure; genome evolution
- Molecular evolution of recently diverged species

2009 Fee: 1200 Euro, plus an additional 500 Euro for optional third week of all-computer laboratory for work on your own data with guidance and consultation of some faculty and teaching assistants (highly recommended). Fees include opening reception and mid-course dinner, but do not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels.

For more information and online application see the Workshop web site -

<http://workshop.molecularevolution.org/>
mike@umiacs.umd.edu mike@umiacs.umd.edu

ESF Programme ThermAdapt call-for-grants

**** PERMANENT CALL FOR WORKSHOP/SCIENCE MEETINGS GRANT APPLICATIONS ****

In 2006 we launched a new ESF Programme on “Thermal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics” (ThermAdapt); see <http://www.esf.org/thermadapt> . The Objective of this ESF Programme is to foster a multidisciplinary European network of scientists working on thermal adaptation. We particularly aim to integrate research at multiple levels of investigation, including genetics, physiology, ecology, behaviour or theory. Interested persons or groups are encouraged to join our activities. These include advertising their expertise via our web site, and participation in various activities to be announced separately and regularly over the next 5 years such as workshops, training courses, short and long exchange grants, exchange of specimens and expertise, sharing of facilities, and scientific collaboration of any kind.

We PERMANENTLY call for applications for local organization of

==> WORKSHOPS, SCIENCE MEETINGS or TRAINING COURSES on specific topics within the realm of the ThermAdapt Programme

There is no particular deadline. Instead, submission of workshop proposals is now PERMANENTLY OPENED, as explained on our web site <http://www.esf.org/thermadapt> under > Science Meetings, where the application procedure is also outlined. We shall periodically review submissions about every 3 to 6 months.

Such workshops, financed by our ESF programme if approved, bring together between 10 and 50 participants for 2 to 4 days to focus on a specific issue and are planned to occur on an annual basis over the coming years.

Workshop grant applications will be chosen based on scientific quality, and priority will be given to applicants who come from or intend to visit countries supporting the programme (Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Hungary, Netherlands, Portugal, Slovenia, Spain, Switzerland),

but other European nations can be involved.

For further inquiries, or if you wish to be included in the ThermAdapt e-mail list to receive regular updates on Programme activities, please contact:

Ellen Degott (ESF office liaison; Email: ede-gott@esf.org) Wolf Blanckenhorn (chair; Email: wolf.blanckenhorn@zm.uzh.ch) Mauro Santos (co-chair; Email: mauro.santos@uab.es)

Dr. Wolf Blanckenhorn Chairman ESF ThermAdapt Programme Zoological Museum University of Zurich-Irchel 34 (building)-J (floor) -98 (office) Winterthurerstrasse 190 CH-8057 Zurich

Phone: +41 44 635.47.55 Fax: +41 44 635.47.80 e-mail: wolf.blanckenhorn@zm.uzh.ch <http://www.esf.org/thermadapt> wolf.blanckenhorn@zm.uzh.ch

Munich SexChromosomes Sep14-19

We still have a few spots open in the EES summer school. If you are interested, please apply before the 7th of July.

The Munich Graduate Program for Evolution, Ecology and Systematics (EES) invites applications for the international EES Summer School on 'the Evolution of Sex Chromosomes' held at Frauenchiemsee (80 km east of Munich) from 14 - 19 September 2008.

The 5-day Summer School will consist of lectures, discussions and exercises provided by the invited teachers as well as oral and/or poster contributions by the more advanced student participants. Arrival of participants is scheduled for Sunday 14 September evening, departure for Friday 19 September early afternoon.

Confirmed teachers:

Deborah Charlesworth (University of Edinburgh) Sander van Doorn (Santa Fe Institute) Judith Mank (Uppsala University) Daven Presgraves (University of Rochester)

Local organizers: John Parsch, Susanne Renner, Bart Kempenaers, Pleuni Pennings (Ludwig-Maximilians-University Munich and Max Planck Institute for Ornithology Seewiesen)

The instructors will cover theoretical aspects of sex chromosome evolution and present empirical results from diverse systems including plants, insects and birds. Specific topics will include the origin of sex chromo-

somes, the expression and molecular evolution of sex-linked genes, and the role of sex chromosomes in speciation.

The summer school is open to students at the PhD and Master/advanced Diploma levels. The course language will be English. Students who are involved in research related to the topic of the summer school are encouraged to prepare short oral contributions or posters highlighting their research interests and/or achievements.

Thanks to support from the Volkswagen Foundation, the University of Munich's EES program will cover costs for housing and meals during the Summer School. Participants will have to cover their travel expenses and must pay a 50 Euro registration fee. A limited amount of funding is available to partly subsidize travel expenses for students from the most distant localities.

Applicants should provide a full CV, a statement about your research interests/current projects (max. half page), a statement about why you want to attend the Summer School, explicitly addressing how you expect to benefit and what you can contribute (max. half page). Application deadline is 24th of June.

Questions can be addressed to Ms Pleuni Pennings (pennings@lmu.de). Please send your application by e-mail, preferably as a single pdf file, to Ms Pleuni Pennings (pennings@lmu.de). Further information is available at http://www.eeslmu.de/eeswiki/index.php?title=Summer_school_2008. Best wishes, Pleuni Pennings

–

Pleuni S. Pennings

* Program Coordinator of the Munich Graduate School for Evolution, Ecology, and Systematics

* Postdoc in theoretical evolutionary biology

Evolutionary Biology, Department Biologie II University of Munich (LMU) Großhaderner Str. 2 D-82152 Planegg-Martinsried

Tel: 0049 89 2180 74 234 <http://www.eeslmu.de/eeswiki> <http://www.biologie.uni-muenchen.de/ou/theopopgen/index.htm> pennings@lmu.de

PiacenzaItaly LivstockBiodiversity Sep8-12

Globaldiv Summer School 2008_Last Call

The EU GLOBALDIV project (www.globaldiv.eu) is very pleased to announce the First Globaldiv Summer School, to be held in Piacenza-Italy on September 8-12, 2008. GLOBALDIV (A global view of livestock biodiversity and conservation) is a 3 year project funded by the European Commission that aims at promoting the formation of international interdisciplinary groups of experts in characterization and conservation of Farm Animal Genetic Resources.

GLOBALDIV 2008 Summer School offers theoretical and practical lectures within an interactive educational program designed to enhance researcher abilities in technologies, statistics and methods for the investigation of animal genomes and the characterization of their genetic diversity. This five-day course is an excellent training opportunity for PhD students and junior researchers.

Participation to the school is free of charge, the travel and accommodation is at the expense of the participants. GLOBALDIV will support (lodging and meals in Piacenza) the best 8 applicants among students coming from East Europe, Asia, Africa and South/Central America. Travel cost will remain to the responsibility of students.

For best efficiency and success, the number of participants is limited to 40.

Candidates will be selected by the organizing committee according to the field of experience, interest and motivation to participate to the training. The registration form and all information on participation and courses are available at www.globaldiv.eu.

Deadline for application is July 10th, 2008.

TOPICS: farm animal production systems and threats to biodiversity in Europe, emerging and developing countries; novel technologies for DNA analysis; population genetics, statistics and software for the analysis of genomic and mitochondrial DNA data; reconstruction of farm animal domestication; discussion of case studies presented by participants.

LECTURERS: Paolo Ajmone Marsan, Paul Boettcher, Licia Colli, Josè Fernando Garcia, Olivier Hanotte, Jianlin Han, Juha Kantanen, Johannes Arjen Lenstra, Anna Olivieri, Riccardo Negrini, Steffen Weigend, Pierre Taberlet, Miika Tapio, Milan Zaijc.

ORGANIZING COMMITTEE: Paolo Ajmone Marsan, Licia Colli, Paola Crepaldi, Riccardo Negrini, Elena Murelli, Marco Pellecchia.

Best regards.

Riccardo Negrini

Istituto di Zootechnica, Facoltà di Agraria Università Cattolica del Sacro Cuore Via Emilia Parmense, 84 29100 Piacenza, ITALY Phone: +39 0523 599205 Fax: +39 0523 599276 Mobile: +39 328 4191521 Skype: Riz-zulin Website: www.animalgenetics-piacenza.it/ If you think you are too small to make the difference, try to sleep in a closed room with a mosquito! [African proverb]

E' bene ricordare che l'intero Universo, tranne un'unica trascurabile eccezione, è formato dagli altri. [Anonimo]

Davide Perini <davide.perini@unimi.it>

PiacenzaItaly LivstockBiodiversity Sep8-12 extended

Please, note that the deadline for “Globaldiv Summer School 2008” course (posted few days ago) has been moved (now is July 15th) As a collaborator of Dr. Negrini I hereby ask you to post the following update that could help Evoldir members to have more time for application.

Thank you for your attention Davide Perini Università Cattolica del Sacro Cuore, Piacenza, Italy

The deadline for application to the Globaldiv Summer School 2008 is now extended to July 15th.

The EU GLOBALDIV project (www.globaldiv.eu) is very pleased to announce the First Globaldiv Summer School, to be held in Piacenza-Italy on September 8- 12, 2008. GLOBALDIV (A global view of livestock biodiversity and conservation) is a 3 year project funded by the European Commission that aims at promoting the formation of international interdisciplinary groups of experts in characterization and conservation of Farm Animal Genetic Resources. GLOBALDIV 2008 Summer School offers theoretical and practical lectures within an interactive educational program designed to enhance researcher abilities in technologies, statistics and methods for the investigation of animal genomes and the characterization of their genetic diversity. This five-day course is an excellent training opportunity for PhD students and junior researchers.

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ORGANIZING COMMITTEE: Paolo Ajmone Marsan, Licia Colli, Paola Crepaldi, Riccardo Negrini, Elena Murelli, Marco Pellecchia.

Istituto di Zootechnica, Facoltà di Agraria Università Cattolica del Sacro Cuore Via Emilia Parmense, 84 29100 Piacenza, ITALY Phone: +39 0523 599205 Fax: +39 0523 599276 Mobile: +39 328 4191521 Skype: Riz-zulin Website: www.animalgenetics-piacenza.it/ If you think you are too small to make the difference, try to sleep in a closed room with a mosquito! [African proverb]

E' bene ricordare che l'intero Universo, tranne un'unica trascurabile eccezione, è formato dagli altri. [Anonimo]

Salzburg WildlifeDiversity Nov26-28

ANNOUNCEMENT:

ESF - WORKSHOP

Diversity, selection and adaptation in wildlife and livestock - molecular approaches

The European Science Foundation ESF financially sup-

ports scientific workshops in the field of integrating population genetics and conservation biology. This year a workshop will be held from 26.11.2008 to 28.11.2008 in Salzburg, one of Austria's most attractive towns.

The main goals of the workshop are to stimulate the interaction between wildlife diversity and animal breeding research as well as to integrate quantitative and molecular approaches to the estimation of fitness as conservation value. About 30 experts and young scientists from all over Europe will be invited for presentations and discussions on this topic.

The following invited lectures of experts will be presented:

Day 1: What's in a breed: criteria for conservation (J.A. Lenstra) Cranes, primates and zebu cattle: a rational framework to derive conservation priorities (H. Simianer) Genetics of African cattle domestication and signatures of selection (D. Bradley) Functional tests of selected alleles - a case study in *Drosophila* (C. Schl )

Day 2: Tracing cattle to trace shepherds; the origin of the Etruscans (P. Ajmone Marsan) Genetic variation in domesticated cattle and wild aurochs using modern and ancient DNA (C. Edwards) Genetic diversity and population stratification (S. Weigend) Quantitative genetic analysis of selection trade-offs in natural populations: can we define relevant fitness landscapes? (K. Foerster)

Day 3: Wolf conservation and wolf-dog interactions (E. Randi) Heterogeneous founder effects on inbreeding depression (R. Baumung)

The workshop is aimed at young scientists in population genetics and conservation biology. The ESF will cover partly your travel expenses, accommodation and meals during the workshop. We would highly appreciate if you could join us in making the workshop a success by contributing a short presentation. Please be aware that the number of contributing participants is limited to 20 participants. The deadline for sending abstracts and registration is September 20.

For more information and registration details please check the website of the workshop: <http://www.nas.boku.ac.at/12718.html> or contact Roswitha Baumung: roswitha.baumung@boku.ac.at

The organisers:

Prof. Dr. H. Simianer, University of G ttingen, Albrecht-Thaer-Weg 3, 37075 Goettingen, Germany
Dr. J.A. Lenstra, Faculty of Veterinary Medicine, Utrecht University, Yalelaan 2, 3584 CM Utrecht, The Netherlands
Dr. R. Baumung, University of Natural Resources and Applied Life Sciences Vienna, Gregor Mendel Str. 33, 1180 Vienna, Austria

Assoc.Prof. Dr. Roswitha Baumung University of Natural Resources and Applied Life Sciences Vienna Division of Livestock Sciences

Gregor-Mendel-Strasse 33 A-1180 Vienna, Austria

Tel.: +43-1-47 654-3272 e-mail: roswitha.baumung@boku.ac.at

Smithsonian Panama Conservation Genetics Jan18-31

Announcing "Recent Advances in Conservation Genetics" January 18th through January 31st, 2009

The American Genetic Association (<http://www.theaga.org/overview.html>) in conjunction with the National Cancer Institute, The Laboratory of Genomic Diversity, Frederick, Maryland (<http://home.ncifcrf.gov/ccr/lgd>), NOAHS-Smithsonian Institute and the Smithsonian Tropical Research Institute (<http://stri.org/>) is presenting a 13 day intensive course January 18th through January 31st, 2009, at the Smithsonian Tropical Research Institute in the Republic of Panama. 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, who will also share a variety of their personal experiences in this important field. Applicants should be conservation-minded scientists (advanced graduate students, post-docs, teachers, and researchers with advanced degrees) from academia, government, non-government organizations, 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. Interested individuals can contact us at congen@ncifcrf.gov or visit the website at <http://home.ncifcrf.gov/ccr/lgd/-congen2009/index.asp> for course details. – Dr. Warren E. Johnson Laboratory of Genomic Diversity National Cancer Institute Frederick MD 21702-1201

TEL: 301-846-7483 FAX: 301-846-6327

johnsonw@mail.ncifcrf.gov johnsonw@mail.ncifcrf.gov

Switzerland

Adaptive Genetic Variation Sep3-6

LAST CALL

A workshop on “Managing adaptive genetic variation in conservation biology” will be held in La Fouly, Valais, Switzerland, from September 3rd to September 6th 2008.

Deadline for registration is July 15th 2008.

Workshop summary: Current population management concentrates very much on demographics, local adaptation, and on the maintainance of genetic variation. Recent developments in theory and on some model organisms suggest, however, that there can be significant variation in heritable viability within a population. So-called ‘good genes’ models of sexual selection predict, for example, that reproductive skews in the wild are positively linked to heritable viability. Conservation management should try to minimize any variance in reproductive success that is not linked to viability traits. However, including ‘good genes’ effects in, for example, captive or supportive breeding could increase the average viability in the next generation. This positive effect would have to be balanced with the management of overall genetic variation. So far, neutral markers were mainly used to study the genetic make up of wild populations, but new methods and analyses can now give insights into adaptive genetic variation. We will discuss the advancements in these fields and their possible relevance for population management. Invited speakers:

Juha Merilä (University of Helsinki, Finland); Wayne Potts (University of Utah, USA); Jon Slate (University of Sheffield, UK); Jay Storz (University of Nebraska, USA); Pierre Taberlet (CNRS & University of Grenoble, France). In addition to invited speakers, participants will also have the opportunity to present their own research. Ample time will be allowed for discussions.

Registration fees are CHF 300, including local accommodation and food. Fees are waived for students from the Swiss universities affiliated to the CUSO (Geneva, Lausanne, Neuchatel, Fribourg and Berne), which will be given priority.

Deadline for registration is July 15th 2008.

Please register directly on our web site: <http://->

www.unil.ch/dee/page11644_en.html Note that the workshop is limited to 35 participants, and a final selection will be done at the end of July.

Organizers : G. Evanno, L. Fumagalli & C. Wedekind, University of Lausanne.

Workshop location: <http://www.dolent.ch/> Workshop location: <http://www.dolent.ch/>

UManchester Morphometrics

Nov10-Dec19

I am pleased to announce this year’s morphometrics course from the University of Manchester. This year’s course will run in the six weeks from 10 November to 19 December 2008.

The course information can be found on the following we site: <http://www.flywings.org.uk/MorphoCourse>

Course content: – Data acquisition: the kinds of data and the equipment used to collect them. – Statistics of variation, scatterplots, basic multivariate statistics – Definitions of size and shape (distance measures) – Geometric methods to measure shape from a configuration of landmark points (Procrustes superimposition) – Measurement error and outliers – Shape transformations and ‘warping’ – the thin plate spline – Analysis of outline shapes – Distinguishing between groups (taxonomy, clinical diagnosis, etc.) – Allometry and size correction – Influence of external factors on shape (ecomorphology, dose-response studies) – Symmetric forms and measurement of asymmetry. – Morphometric inferences on developmental processes, morphological integration, modularity – Genetics of shape: analyses of resemblance between relatives, QTL analyses. – Phylogeny: reconstructing the evolution of shape

Practice examples: As far as possible, practical exercises are provided to accompany the course content. These practice exercises consist of data sets and explanations on how to run the respective analyses using the MorphoJ software (http://www.flywings.org.uk/-MorphoJ_page.htm). Participants who already have their own data are encouraged to use those and to discuss them as part of the course. I hope there will be a bit of a ‘workshop’ feel to the course unit.

The fee for the course is GBP 175.00 (no change from last year).

All prospective participants need to pre-register for the course. The deadline for this is the *31 August 2008*.

For further details, see the course web page: <http://www.flywings.org.uk/MorphoCourse> Best wishes,
Chris Klingenberg

–

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The University of Manchester Michael Smith Building
Oxford Road Manchester M13 9PT United Kingdom

Telephone: +44 161 275 3899 Fax: +44 161
275 5082 E-mail: cpk@manchester.ac.uk Web:
<http://www.flywings.org.uk> cpk@manchester.ac.uk

Where Littorina Genomics when

The IX ISOLBE meeting on the intertidal snail *Littorina* includes a workshop on *Littorina* genomics organised by Elizabeth Boulding (Guelph) and John Grahame (Leeds). The meeting itself will provide a stimulating context, with *Littorina* moving into prominence in evolution and speciation studies; the workshop will focus on what we have achieved in terms of sequence-based approaches, where we want to go, and creation of an International Consortium to complete the sequencing the entire *Littorina saxatilis* genome, compilation of EST libraries, and a database of SNPs. Contact details if you want to be involved are: j.w.grahame@leeds.ac.uk or boulding@uoguelph.ca

J.W.Grahame@leeds.ac.uk

WoodsHole MolecularEvolution Jan12-23

Workshop on Molecular Evolution

<http://workshop.molecularevolution.org/> 12 - 23 January 2009, individual research session 23 - 30 January 2009

Application Deadline: 1 September 2008

Michael P. Cummings and Scott A. Handley, Co-Directors

The Workshop on Molecular Evolution has been the finest course on the subject since first offered in 1988 in Woods Hole, USA. The Workshop consists of a se-

ries of lectures, demonstrations and computer laboratories that cover various aspects of molecular evolution. Faculty are chosen exclusively for their effectiveness in teaching theory and practice in molecular evolution. Included among the faculty are developers and other experts in the use of computer programs and packages such as BLAST, BEAST, Clustal W and Clustal X, FASTA, FigTree, GARLI, LAMARC, MAFFT, MrBayes, PAML, PAUP*, and SeaView who provide demonstrations and consultations. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students with prior experience in molecular evolution and related fields. Scientists with strong interests in molecular evolution, phylogenetics, population genetics, and related fields are encouraged to apply for admission. Lectures and computer laboratories total ~90 hours of scheduled instruction. An optional all-computer laboratory of 54+ hours of independent work with guidance and consultation of some faculty and teaching assistants is offered during the third week. Admission is limited and highly competitive, with admissions decisions determined by an international committee.

Topics to be covered include:

- Databases and sequence matching: database searching; protein sequence versus protein structure; homology; mathematical, statistical, and theoretical aspects of sequence database searches
- Phylogenetic analysis: theoretical, mathematical and statistical bases; sampling properties of sequence data; Bayesian analysis; hypothesis testing
- Maximum likelihood theory and practice in phylogenetics and population genetics: coalescent theory; maximum likelihood estimation of population genetic parameters
- Molecular evolution integrated at organism and higher levels: population biology; biogeography; ecology; systematics and conservation; population genetics
- Molecular evolution and development: gene duplication and divergence; gene family organization; coordinated expression in evolution
- Comparative genomics: genome content; genome structure; genome evolution
- Molecular evolution of recently diverged species

2009 Fee: 1200 , plus an additional 500 for optional third week of all-computer laboratory for work on your own data with guidance and consultation of some faculty and teaching assistants (highly recommended). Fees include opening reception and mid-course dinner, but do not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels.

For more information and online application see the Workshop web site -

<http://workshop.molecularevolution.org/>

mike@umiacs.umd.edu mike@umiacs.umd.edu

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as 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.