E v o l D i r

August 1, 2006

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

Forward

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

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

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

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Conferences

DrosophilaSpecies Oct26-29

Annual Drosophila Species Workshop, VI, October 26-29, 2006. Details of the workshop program an be found at details: http://stockcenter.arl.arizona.edu/-index.php? option=com_content&task=view&id

There is an on line application form which should be submitted no later than September 5.

Regents' Professor Department of Ecology and Evolutionary Biology BSW 310 University of Arizona Tucson, AZ 85721

Office: 520 621 3323 Lab: 520 626 2772 FAX: 520 626 3522

tmarkow@arl.arizona.edu http://-eebweb.arizona.edu/faculty/markow/index.htm
tmarkow@public.arl.arizona.edu

Frankfurt Hybridization Oct12-15

This is the second announcement of the symposium: "Hybridization in Animals - Extent, Processes and Evolutionary Impact" at the J.W. Goethe University, Frankfurt am Main, Germany, between October 12 and 15, 2006.

*** The call for abstracts and registration ends July 24, 2006 *** For further information please check: www.hybridization.uni-frankfurt.de . In order to exchange ideas covering novel research approaches, new experimental and analytical techniques and results of empirical and theoretical studies on interspecific hybridization we invite you to contribute to the symposium. Our aim is to stimulate a broad and interdisciplinary discussion among ecologists, geneticists and bioinformatic scientists.

Key-note lectures: Eric C. Anderson - Southwest Fisheries Science Center, USA Michael L. Arnold - University of Atlanta, USA Rosemary Grant - Princeton University, USA H. Allen Orr - University of Rochester, USA Ole Seehausen - University of Berne, Switzerland

Because of the limited size of the symposium we will only accept participants who contribute a poster or oral presentation. In total we will be able to host around 70 participants. Please submit an abstract of maximum 250 words before July 24, 2006. Symposium fee will be EUR 200. For further information please check: www.hybridization.uni-frankfurt.de . With kind regards, Klaus Schwenk Bruno Streit Nora Brede

Contact: n.brede@bio.uni-frankfurt.de

Dept. Ecology and Evolution Institute of Ecology, Evolution and Diversity Johann Wolfgang Goethe University Siesmayerstr. 70 D-60323 Frankfurt Germany

n.brede@bio.uni-frankfurt.de n.brede@bio.uni-frankfurt.de

Frankfurt InterspecificHybrids Oct12-15

Dear all!

We would like to announce the extended registration deadline for the symposium:

"Hybridization in Animals - Extent, Processes and Evolutionary Impact" at the J.W. Goethe University, Frankfurt am Main, Germany, between October 12 and 15, 2006.

*** The extended call for registration ends August 10, 2006 ***

For further information please check: www.hybridization.uni-frankfurt.de . In order to exchange ideas covering novel research approaches, new experimental and analytical techniques and results of empirical and theoretical studies on interspecific hybridization we invite you to contribute to the symposium. Our aim is to stimulate a broad and interdisciplinary discussion among ecologists, geneticists and bioinformatic scientists.

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Because of the limited size of the symposium we would like all participants to contribute a poster or oral presentation. In total we will be able to host around 70 participants. If you would like to contribute, please submit an abstract of maximum 250 words with your registration before August 10, 2006. Symposium fee will be EUR 200. For further information please check: www.hybridization.uni-frankfurt.de . With kind regards, Klaus Schwenk Bruno Streit Nora Brede

Contact: n.brede@bio.uni-frankfurt.de

Dept. Ecology and Evolution Institute of Ecology, Evolution and Diversity Johann Wolfgang Goethe University Siesmayerstr. 70 D-60323 Frankfurt Germany

n.brede@bio.uni-frankfurt.de n.brede@bio.uni-frankfurt.de

Halifax SMBE Jun24-28 SymposiaTopics

CALL FOR SYMPOSIUM TOPICS–SMBE annual meeting, June 24-28, 2007

The 2007 Annual Meeting of the Society for Molecular Biology and Evolution (SMBE) will be held June 24-28 at Dalhousie University in Halifax, Nova Scotia, Canada. The meeting will be held in conjunction with the Evolutionary Biology Program of the Canadian Institute for Advanced Research. We invite you to suggest symposium topics. Email suggestions to John Archibald (jmarchib@dal.ca) before AUGUST 1st 2006.

Please refer to the SMBE website for updates about speakers, symposia, registration, travel and accommodation:

http://www.smbe.org/ John M. Archibald, Ph.D. Assistant Professor and Scholar, CIAR Program in Evolutionary Biology Department of Biochemistry and Molecular Biology Dalhousie University Sir Charles Tupper Medical Building 5850 College Street, Halifax, Nova Scotia B3H 1X5, Canada

Phone: (902) 494-2536 Fax: (902) 494-1355 Webpage: <http://myweb.dal.ca/jmarchib/> "Biologists should realize that before long we shall have a subject which might be called "protein taxonomy"?the study of amino acid sequences of the proteins of an organism and the comparison of them between species. It can be argued that these sequences are the most delicate expression possible of the phenotype of an organism and that vast amounts of evolutionary information may be hidden away within them". Francis Crick, 1957

John Archibald <jmarchib@dal.ca>

IndianaUBloomington OriginofNovelFeatures Oct6-8

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

The graduate student affiliates of the Indiana University / University of Oregon IGERT in Evolution, De-

velopment and Genomics would like to extend an invitation to attend our upcoming symposium entitled "The Origin of Novel Features" on October 6-8, 2006 on the IU campus in Bloomington, IN. This topic has been chosen because it lies at the heart of evolution of development (evo-devo) today. While much of evo-devo has traditionally focused on deep connections in macro-evolution, more micro-evolutionary perspectives and approaches are now entering the field. This makes it possible to ask the difficult and exciting question– how do qualitatively new features arise in evolution? We have assembled an interdisciplinary group of speakers conducting important research towards this aim. These speakers represent a diversity of ideas and organisms (from dung beetles to humans) and utilize multiple methodologies (from molecular biology to eco-devo). More information about this symposium, including a detailed schedule, list of speakers, and information on accommodations and poster submission, is available at our website:

http://www.bio.indiana.edu:16080/events/igert/ The registration deadline is August 11. If you have any questions, please email jkedzie@indiana.edu.

Benjamin Keir Blackman <bkblackm@indiana.edu>
Benjamin Keir Blackman <bkblackm@indiana.edu>

Marseilles 10EvolBiol Sep20-22 posters

Dear All We can still accept 5 posters at the 10th EBM the pre programme is available at http://www.up.univ-mrs.fr/evol-cgr/pre_programme.php for more information http://www.up.univ-mrs.fr/evol-cgr/ The 10th EBM Logistal organisation committee

egee@up.univ-mrs.fr

Marseilles 10EvolBiol Sep20-22 program

The preprogram of the 10th evolutionary biology meeting at marseilles is now available at

http://www.up.univ-mrs.fr/evol-cgr/ Pierre Pontarotti EA 3781 Evolution Biologique Université d'Aix Marseille I Centre St Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 33491106489 http://www.up.univ-mrs.fr/evol We are organizing the 10th Evolutionary Biology Meeting at Marseille http://www.up.univ-mrs.fr/evol/congres/ Pierre.Pontarotti@up.univ-mrs.fr

McMasterU GenomicsOriginHumanity Aug3-5 2

You are invited to a summer workshop on The Genomic Revolution and the Origin of Humanity that will be held at McMaster University, Hamilton, Ontario, Canada from August 3-5, 2006.

Attendees at this Origin Institute summer workshop will explore links between genomics and the origin of humans and human culture. A group including 6 world class scientists and leaders in the fields of genomics, evolution, and health has been invited to initiate activity that is connected with key international research efforts in population and reproductive biology, molecular medicine, gene and stem cell therapies, and environmental health. Invited speakers include: Andrew Clark, Marc Feldman, Kenneth Morgan, David Serre,Mark Stoneking, Sarah Tishkoff.

For information and registration please visit the website: http://origins.mcmaster.ca/- genomics/registration.html

Dr. Rama S. Singh, Professor Department of Biology Life Science Building 540 McMaster University Hamilton, Ontario CANADA L8S 4K1 Tel: (905) 525-9140 ext. 24378 Fax: (905) 522- 6066

singh@mcmaster.ca

Montreal RECOMB ComparativeGenomics Sep24-26 CallPosters

CALL FOR POSTERS Deadline: August 21, 2006 Fourth Annual RECOMB Satellite meeting on Comparative Genomics September 24-26, 2006, Montreal, Canada MEETING WEBSITE: http://-www.crm.umontreal.ca/Genomics06/ SCOPE: The

RECOMB Satellite Workshop on Comparative Genomics is a forum on all aspects and components of this field, ranging from new quantitative discoveries about genome structure and process to theorems on the complexity of computational problems inspired by genome comparison. Invited speakers include: Lars Feuk (The Hospital for Sick Children, Toronto), Tao Jiang (University of California, Riverside), Fiona Brinkman (Simon Fraser University), Liqing Zhang (VirginiaTech) and Thomas Hudson (McGill University). SUBMISSION: Poster abstracts should be sent by email in pdf format by 11:59pm (EDT) of August 21, 2006 to: bourque@gis.a-star.edu.sg using the subject line [3]RECOMBCG Poster[2].

Note that the acceptance of poster abstract is conditional on at least one of its authors pre-registering for the RECOMB workshop electronically. Notification of acceptance: September 4, 2006

PREPARATION OF POSTER ABSTRACTS: A poster abstract should start with a succinct statement of the problem, the results achieved, their significance and a comparison with previous work. This material should be understandable to non-specialists. A technical exposition directed to the specialist should follow. The length, excluding cover page and bibliography, should not exceed 2 pages. The abstract should be easy to read, using at least 11 point font size on U.S. standard 8 1/2 by 11 inch paper with no less than one inch margin all around.

REGISTRATION:

THE NUMBER OF PLACES IS STRICTLY LIMITED for the workshop. If you plan to attend, we would like to encourage you to register as early as possible to guarantee your place. QUERY: If there is any query, please email to bourque@gis.a-star.edu.sg

David Sankoff <sankoff@uottawa.ca>

PurdueU GenomicsAgriculture Sep10-12

First Conference Announcement - Save These Dates!

Convergence of Genomics and the Land Grant Mission:

Emerging Trends in the Application of Genomics in Agricultural Research

Purdue University, West Lafayette, Indiana

September 10-12, 2007

You are invited to participate in a national conference on agricultural genomics at Purdue University in West Lafayette, Indiana on September 10-12, 2007.

The conference will feature invited presentations by recognized leaders in agricultural genomics and submitted posters from interested participants. Presentations on microbes, arthropods, plants, animals and ecological systems will be integrated into sessions addressing the following themes:

* Transition from Model to Agricultural Species * Integrating Information Across Databases * Translational Challenges and Successes * Roundtable Discussion and Recommendations

This meeting promises to be a rare opportunity to exchange scientific expertise and experiences among genomics researchers and stimulate new discussions with applied researchers, stakeholders, and decision makers who do not normally interact with the genomics community. The goal of the conference is to promote synergisms across disciplines, commodities, and species. A committee of recognized national leaders in molecular biology and genomics is helping develop the program.

A final list of topics and speakers is expected by September 2006, when the second announcement about the conference will be circulated and registration will open. To learn more about the program, the organizing committee and other meeting logistics, go to the conference website at:

www.entm.purdue.edu/conference dewoody@purdue.edu

StonyBrook PhilosphyScience Mar10 AbstractsCall

Dear Colleagues,

Stony Brook University's Departments of Philosophy and of Ecology & Evolution will host an informal symposium on the relationship between science and philosophy, on Saturday, March 10, 2007 on the SBU campus in Stony Brook, Long Island, NY.

The idea is to explore why, if at all, scientists should care about what philosophers say about science. Is philosophy of science a discipline that should matter, however tangentially, to practicing scientists? Is it an independent area of study largely independent of science

proper? What are the various domains of scholarship and teaching of the two disciplines, and how should they intersect?

We encourage colleagues and graduate students in both philosophy and any area of science to submit abstracts for the conference, on the general theme of whether or not philosophy can be useful to science or vice versa, and how one would go about building bridges between the two cultures. Selected papers will be collected in a special issue of the Quarterly Review of Biology, a very high-impact journal dedicated to broad conceptual issues in biology.

Abstracts should be around 200-300 words, and should be sent to massimo.pigliucci@stonybrook.edu by November 30, 2006. Authors whose abstracts will be accepted will be asked to present for about 20 minutes, with 10 minutes of Q&A after each presentation.

Sincerely, Massimo Pigliucci (SBU-Ecology & Evolution, massimo.pigliucci@stonybrook.edu)

– Prof. Massimo Pigliucci Dept. of Ecology & Evolution SUNY-Stony Brook, NY 11794-5245 phone 631-632-1097, fax 7626 http://www.genotypebyenvironment.org http://-www.platofootnote.org "Truth springs from argument amongst friends." -David Hume

Massimo.Pigliucci@stonybrook.edu

UCLosAngeles IntlSummitEvolChange Feb8-10

Evolutionary Change in Human-altered Environments An International Summit

February 8-10, 2007 Institute of the Environment University of California, Los Angeles

Organized by Thomas Smith and Louis Bernatchez.

Human activities are affecting the evolutionary processes that generate and maintain biodiversity. Climate change and deforestation are facilitating the evolutionary jump of animal diseases to humans. Fish farming has resulted in the spread of poorly adaptive genes to the wild. Introductions of exotic species are impacting native species and limiting their ability to adapt.

In response to this developing crisis, we are convening an international summit of evolutionary biologists, conservation practitioners, and policy makers to synthesize current knowledge and to begin to develop plans to mitigate the effects. The summit will feature talks from more than 40 leading evolutionary biologists, poster presentations, and working groups. A central goal of the summit is to bring the discussion beyond academic boundaries to frame real-world solutions to these problems. For more information and to submit an abstract for a poster go to:

http://www.ioe.ucla.edu/ctr/ioesymposium.html The deadline for poster abstracts is November 1, 2007.

tbsmith@ucla.edu

WasingtonDC ViralGenomes Oct8-11

This meeting will include sessions on viral emergence, evolution and genomics. The deadline for abstracts and early registration is July 15.

Dear Colleague,

On behalf of the organizing committee for the 8th International Feline Retrovirus Research Symposium to be held in Washington DC October 8-11, 2006, I am pleased to invite you to and members of your group to submit abstracts of your latest work. The conference promises to be an innovative and exciting blend of cat genomics, retroviral research and advances in the cat as a model of infectious disease.

Submitted abstracts will be reviewed by the Scientific Committee and assigned to platform or poster presentations (your preference would be helpful) and the best of these would receive partial or full financial support for attendance. A significant amount of the budget will be allocated for this, so we really would encourage abstract submission.

This is an exciting time for feline infectious disease research and also feline genomics. The 2006 completion of the complete cat genome sequence holds great promise for expanding the role of the cat as a model of infectious disease. We anticipate a unique blend of talks at the conference and your participation would be a wonderful contribution.

Please visit the conference website at http://-ifrrs8.ncifcrf.gov for additional information, submission of abstracts, and registration. Please note the deadline for abstracts is July 15, 2006 and an early registration discount deadline is June 1, 2006. Please feel free to

contact Dr Jill Pecon-Slattery or Dr. Naoya Yuhki of the local organizing committee with any questions.

Best wishes

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

Local Organizing Committee: Jill Pecon-Slattery, Ph.D slattery@ncifcrf.gov 301-846-5882 Fax: 301-846-6327 Naoya Yuhki Ph.D. yuhki@ncifcrf.gov Alfred Roca, Ph.D. roca@ncifcrf.gov Meredith Brown, DVM brownmer@ncifcrf.gov

Al Roca <roca@ncifcrf.gov>

Wuhan CypriniformFishes Oct12-15

Wuhan.CypriniformFishes.Oct12-15

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

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

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

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

http://bio.slu.edu/mayden/conferences/-CToLSyposium/ The deadline for registration and abstract submission is 15 September 2006.

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

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

David Neely <neelyda@slu.edu>

GradStudentPositions

AucklandNZ Bioinformatics

Doctoral Scholarships

Two Ph.D. positions are available at the University of Auckland in the New Zealand Bioinformatics Institute (www.bioinformatics.org.nz) working with David Bryant and Alexei Drummond. The projects are funded by a Marsden grant "Statistics of Phylogenetic Networks" and will involve the development of new computational and statistics tools for the study of phylogeography (interaction of evolution and geography) species radiations and general techniques for representing evolutionary patterns.

The successful candidates will have a background in computer science, mathematics, statistics or bioinformatics. They must have excellent writing skills, be able to work independently and in teams, and at least one of the candidates will have had extensive programming experience.

The scholarships are open to qualified students from all countries. They include full university fees and a scholarship of $NZ25,000pa for three years, subject to an annual performance assessment. Students will be required to complete in four years. For information about doctoral studies at University of Auckland, see www.auckland.ac.nz/postgrad Informal inquiries and applications can be sent to David Bryant (bryant@math.auckland.ac.nz) or Alexei Drummond (alexei@cs.auckland.ac.nz). Applications must include a full CV, a statement of previous research experience, with names and contact details for two referees.

bryant@math.auckland.ac.nz
bryant@math.auckland.ac.nz

EdinburghU RhododendronSystematics

A Ph.D. position in evolutionary biology and taxonomy is available at the Royal Botanic Garden Edinburgh (RBGE) and Institute of Molecular Plant Sciences, University of Edinburgh (UoE), UK, with Dr Richard Milne (UoE) and Dr David Chamberlain (RBGE) to study speciation and hybridisation in Rhododendron.

The research project aims to investigate how interfertile Rhododendron species co-exist. Genetic barriers to gene flow between species appear to be almost non-existent within Rhododendron, yet despite this the genus has radiated dramatically within the Sino-Himalaya region, with the genus Hymenanthes containing well over 200 species in this region alone. An understanding of how species barriers are maintained among Sino-Himalayan members of Hymenanthes will be highly instructive not only about how existing species maintain their integrity in the face of hybridization, but also into how species barriers are formed in the first place, i.e. the process of speciation.

The research will involve field work in China as well as morphological, molecular and biochemical investigation. Candidates with a strong interest in field botany, taxonomy and plant evolution are particularly encouraged to apply.

RBGE has rich living and herbarium collections of Rhododendron, and provides an extensive botanical library, molecular and microscopy laboratories for research. RBGE has a strong research and teaching ethos with about 20 PhD students and hosts the joint RBGE/UoE MSc course on Taxonomy and Biodiversity of Plants. Laboratories and other facilities are also available at UoE.

Funding is available for three years and we hope to appoint by October 2006. The closing date for applications is 12 August 2006, and interviews are scheduled for 22 August 2006. Full funding is available only for UK or EU students.

Letters of application, together with a full CV and the names of two referees should be sent to Dr Richard Milne at the address below. For further information or informal enquiries please contact r.milne@ed.ac.uk.

Dr Richard Milne, Institute of Molecular Plant Sciences University of Edinburgh King's Buildings Mayfield Rd Edinburgh EH9 3JH UK Tel: +44 131 650 5322 Fax: +44 131 650 5392

r.milne@ed.ac.uk

LeibnizInst WildlifeDiseases

The Leibniz-Institute for Zoo and Wildlife Research (IZW) is one of eight research institutes forming the Forschungsverbund Berlin e.V. and member of the Leibniz-Gemeinschaft. As research institutes of national scientific importance, they are jointly funded by the German federal and state governments. The Research Group Wildlife Diseases has the following Ph. D. position vacant in the project Lead intoxications in White- tailed Sea eagles: causes and methods of resolution supported by the Federal Ministry of Education

and Research:

Ph. D. position Demography of the White-tailed Sea Eagle population in Germany

Tasks: Modelling the impact of mortality factors on the population dynamics (growth and expansion)of the White-tailed Sea Eagle in Germany Possibly assistance in the field work (telemetry) Possibly molecular biological analysis of the turn-over in the White-tailed Sea Eagle population in Germany

Required skills and education: MSc degree or Diploma in Biology, Veterinary Medicine or a related education is required. Advanced courses in statistics, population modelling or equivalent are desirable. Proficiency in both written and spoken English. Excellent social skills, ability to work independently and high motivation will be assets. Experience in using modelling programs such as Mark, Vortex, Ramas GIS or others are expected.

The position is at 60% employment (TVD, Tarifbereich Ost) and initially limited to two years. The IZW is an equal opportunity employer. Applications from women are strongly encouraged. Preference will be given to disabled applicants with the same qualifications. For further information please contact Dr. Oliver Krone (+ 49 30/5168-212 or krone@izw-berlin.de).

Applicants should submit a letter explaining their interests in and particular skills for this position, a CV including candidate's photo, a summary of their Diploma or Master Thesis, and publication list (if available) preferentially before 31.07.2006. We will consider applications until the position is filled. Please cite reference 06/03/FG3. Application should be sent to:

Leibniz-Institute for Zoo- and Wildlife Research, to Mrs. Wagner, P.O. Box 60 11 03, D-10252 Berlin, Germany

Institut fur Zoo- und Wildtierforschung Dr. med. vet. O. Krone Fachtierarzt fur Zoo-, Gehege- und Wildtiere Postfach 601103 10252 Berlin Tel: 030-5168405 Fax: 030–5126104 www.izw-berlin.de Oliver Krone <krone@izw-berlin.de>

LiverpoolU SexualSelection

PhD Position

Oxidative stress and sexual selection in mammals

Supervised by: Professor Jane Hurst, Dr Paula Stockley, University of Liverpool

Starting October 2006. Funded by BBSRC for 4 years (UK-only funding)

Animals have evolved antioxidant defence systems that play an essential role in minimizing the cellular damage that results from interaction between cellular constituents and reactive oxygen species (ROS). Since healthy life expectancy, fertility and reproductive success depend on the effectiveness of these defence systems, sexual selection is likely to lead to signals that reliably reveal any differences between males in the ability to resist oxidative stress. In support of this, a number of recent high-profile studies have linked colourful sexual signals displayed by many birds and fish to antioxidant defence and health. In mammals, scent is a far more important mode of communication than visual displays, and the project will investigate links between oxidative stress and sexual selection for the first time in this important group. The project will build on our established strengths in chemical communication and sexual selection and develop a formal collaborative link with Professor Malcolm Jackson, an expert on oxidative stress at Liverpool University's School of Clinical Science. We will examine the effects of deficiencies in antioxidant defence systems and ageing on signal quality and display, and the consequences for fertility and reproductive success. This cross-disciplinary project will provide specific training in evolutionary theory underlying sexual selection, the design and implementation of rigorous controlled behavioural assays, assessment of ejaculate quality, molecular analyses and pathology, as well as generic research skills in experimental design, statistical analysis, ethics and best practice in 3Rs, and scientific communication.

Applicants should have a First Class Honours or an Upper Second Class Honours degree in a relevant biological discipline, and a strong interest in evolutionary biology. You will join an active research environment in the Mammalian Behaviour and Evolution Group, based at the University of Liverpool's Veterinary Field Station, on the Wirral Peninsula (http://www.liv.ac.uk/mbe/-). The Faculty of Veterinary Science provides a top-rated RAE research environment with extensive training opportunities for postgraduate students (see http:/-/www.liv.ac.uk/gradschool/).

Apply sending a CV with details of two academic referees, by July 15th 2006, to Prof Jane Hurst, Mammalian Behaviour & Evolution Group, Faculty of Veterinary Science, University of Liverpool, Leahurst Veterinary Field Station, Chester High Road, Neston CH64 7TE (e-mail: jane.hurst@liv.ac.uk). Informal enquiries welcome.

Dr Paula Stockley Mammalian Behaviour and Evolution Group Faculty of Veterinary Science University of Liverpool Chester High Road Neston, South Wirral CH64 7TE, UK

e-mail: p.stockley@liv.ac.uk Website: http://-www.liv.ac.uk/mbe tel 0151 794 6103 fax 0151 794 6107

MaxPlanckLeipzig MolAnthro

PhD positions in Molecular Anthropology

Two PhD positions are available in the interdisciplinary junior research group of Dr. Brigitte Pakendorf on ?Comparative Population Linguistics? at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany. The successful applicants will work on molecular anthropological approaches to prehistoric population contact in Siberia and Africa, respectively. A master?s degree or equivalent in a relevant field is required. Some experience in molecular anthropological methods (including PCR, sequencing, RFLP and STR typing, and data analysis) is desirable but not necessary. An interest in interdisciplinary research is important, and a knowledge of Russian would be of advantage. The junior research group will have access to the state-of-the-art facilities for molecular biological research at the Department of Genetics within the institute, and the successful candidates will participate in the International Max Planck Research School ?Leipzig School of Human Origins?.

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

The Max Planck Society is an equal opportunity employer.

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

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

Brigitte Pakendorf <pakendorf@eva.mpg.de>

PurdueU EagleNatHistory

Graduate Assistantship at Purdue University

A Ph.D. position is available at Purdue University to study the demography and natural history of eagles in Central Asia. The successful applicant will use molecular genetic markers (microsatellites and MHC genes) to evaluate mate choice, philopatry, turnover, and territoriality in both Aquila and Haliaeetus eagles, continuing the work of Rudnick et al (2005) Mol. Ecol. 14:2959-2967. Most of the research will be lab-oriented, but the successful applicant will spend several weeks in the field collecting samples each year. Strong molecular and/or analytical skills are desired. For more information, contact Andrew DeWoody in the Department of Forestry & Natural Resources, Purdue University (dewoody@purdue.edu). Admission can be through the academic department or through the interdisciplinary Molecular Evolutionary Genetics training group (see http://www.gradschool.purdue.edu/-PULSe/indexNoFlash.cfm). Either way, Ph.D. assistantships are funded at roughly $20,000 per year plus a substantial waiver of tuition & fees. 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 a short letter of interest, including cumulative GPA, GRE scores, and contact information for three references. Formal applications must be received by September 15, 2006 to be considered for Spring 2007 admission, but informal inquiries are welcome beforehand. Women and minorities are encouraged to apply. Purdue University is an equal opportunity affirmative action employer.

dewoody@purdue.edu

UGroningen ConservGenet

PhD position in conservation genetics

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

PhD position for four years:

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

Starting date and applications:

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

The group:

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

Information:

For more information:

Prof. Dr. Kuke (R.) Bijlsma, tel: +31 50 363 2117 (or 2092); r.bijlsma@rug.nl

http://www.rug.nl/biologie/evogen http://-www.rug.nl/biologie/cees

Kuke (R.) Bijlsma Professor Population & Conservation Genetics

Evolutionary Genetics University of Groningen Kerklaan 30 NL-9751 NN Haren The Netherlands

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

UGuelph 3GenomeSize

THREE PHD POSITIONS AVAILABLE FOR CANADIAN STUDENTS

Three NSERC-funded PhD positions are currently available to carry out a joint DNA barcoding-genome size project in the low Arctic of Canada (specifically, Churchill, MB) as part of an International Polar Year research program. One of these positions will be held in the Gregory Lab at the University of Guelph, and will examine patterns of genome size and ploidy variation in a wide range of animals from the low Arctic and temperate regions. A second position will be held in the Hebert Lab at the University of Guelph and will focus on DNA barcoding of animals in Churchill. The third position will be held in the Saunders Lab at the University of New Brunswick in Fredericton, NB and will involve both DNA barcoding and genome size analyses of algae. The first field work period will take place in August, 2006, so time is very much of the essence. Please note that due to the nature of the research project, these positions are open only to Canadian students who hold or will soon complete an MSc or equivalent. For more information about a particular position, please

visit the relevant lab website and contact the potential advisor directly.

Relevant websites:

Gregory Lab: http://www.genomesize.com/-gregorylab/ Hebert Lab: http://www.uoguelph.ca/-˜ phebert Saunders Lab: http://www.unb.ca/-fredericton/science/biology/Faculty/Saunders.html Animal Genome Size Database: http://-www.genomesize.com/ Canadian Centre for DNA Barcoding: http://www.barcodeoflife.org/ Dr. T. Ryan Gregory Assistant Professor Department of Integrative Biology and Biodiversity Institute of Ontario University of Guelph Guelph, Ontario N1G 2W1 CANADA

http://www.genomesize.com/gregorylab/ rgregory@uoguelph.ca

ULeuven Bioinformatics

Concerning: PhD fellowship in BioInformatics

Dear all, Please allow me to draw your attention to the message at http://bioptrain.org/index.php/-Katholieke_Universiteit_Leuven_Campus_Kortrijk

This vacancy is still open and I think it is interesting for someone wishing to pursue an academic carreer. It is open to any non Belgian national. I would be grateful if you could communicate this to any valuable candidates. Best regards, Patrick De Causmaecker

Please reply to Patrick.DeCausmaecker@kuleuven-kortrijk.be

– Prof Patrick De Causmaecker Faculteit Wetenschappen, Departement Informatica Faculty of Sciences, Department of Informatics Katholieke Universiteit Leuven Campus Kortrijk Etienne Sabbelaan 53 B-8500 Kortrijk Belgium

Tel. +32 (0) 56 246258 Fax. +32 (0) 56 246052 E-mail: Patrick.DeCausmaecker@kuleuven-kortrijk.be URL: http://kuleuven-kortrijk.be/ ˜ pdecausm Disclaimer: http://www.kuleuven.be/cwis/email_disclaimer.htm Dieter.Anseeuw@kuleuven-kortrijk.be

ULeuven PlantSystematics

The Laboratory of Plant Systematics is one of the research groups at the Department of Biology at the K.U.Leuven (Belgium). Our lab has a strong expertise in plant systematics, including flower morphology and ontogeny, palynology, molecular systematics, wood and seed anatomy. Our team include two postdocs, 11 PhD students and one lab technician.

We now seek a PhD student in Plant Systematics to strengthen our group. The position will be funded on a research grant of K.U.Leuven.

Project title: Evolution and ontogeny of floral nectaries in Asterids The project suggested is part of a larger research project at the lab entitled: “Phylogenetic studies in the asterids: a multidisciplinary approach”, with Prof. E. Smets as promotor and Dr. S. Dessein as co-promotor.

Qualification requirements: Applicants should have a MSc or equivalent in Biology with a strong focus on Systematic Botany. Training in plant morphology, microscopy and/or systematics of seed plants will be of advantage.

PhD studies: Funding is provided for 4 years (100%) and cannot be extended. Initially, a contract of one year (12 months) will be given. After a positive evaluation this contract will be extended twice, first with another year and finally for the remaining two years. The starting point for the position is preferably October 1st, 2006 but may be negotiated.

For further information, please visit the lab website at www.kuleuven.be/bio/sys or contact Dr. Suzy Huysmans at suzy.huysmans@bio.kuleuven.be or Prof. Erik Smets at erik.smets@bio.kuleuven.be.

The application should contain a CV, documentations of grades and exams, a list of two referees with e-mail info, and a description of motivation and experience relevant to the research project. Please submit your application to Dr. Suzy Huysmans (suzy.huysmans@bio.kuleuven.be) before 1st August 2006.

Disclaimer: http://www.kuleuven.be/cwis/-email_disclaimer.htm Anke.Geeraerts@bio.kuleuven.be

ULouisiana molluskgenome

TEACHING/RESEARCH ASSISTANTSHIP (MS) AVAILABLE.

Funding for a 2-year MS project is available in the Department of Biology at the University of Louisiana at Monroe to work on sequencing and analysis of the mitochondrial genome from a pleurocerid snail. The objective is to sequence the mt genome from Lithasia geniculata and study gene order and similarity to other molluscan genomes in a phylogenetic context. This is primarily a lab- based project, therefore experience with molecular techniques such as PCR and DNA sequencing are desirable but not required. Starting date for the position is on or around August 15, 2006. The position includes a full tuition waiver and stipend ($11,000 per year) for two years and requires the student to teach undergraduate lab courses. ULM utilizes a brand new molecular genetics lab for cell and molecular work.

Monroe is a city of 56,000 people on the banks of the Ouachita River in north-central Louisiana, and serves as the educational, commercial, and economic hub of the Delta parishes. The cost of living is very reasonable, and the city tends to dodge major weather- related events (i.e. no hurricanes recently).

Students seeking admission to the Biology Graduate Program must first be admitted to the ULM Graduate School. Application forms may be obtained online from the Office of Graduate Studies and Research. In addition to a minimum undergraduate GPA of 2.5, the Biology Graduate Program requires either a score of 900 or higher on the GRE General Test (combined verbal and quantitative scores), or a total of 2400 points when the GPA is multiplied by the combined verbal and quantitative GRE General Test scores. Students must also have taken courses in introductory zoology, introductory botany, introductory microbiology, ecology, genetics, and an upper level physiology class (animal, plant, human, or cell). A limited number of course deficiencies can be taken after admission.

Interested students should contact Dr. Russ Minton (minton@ulm.edu; 318-342-1795) for additional information on research projects and specifics on applying. General information on the department, faculty, facilities, and course offerings can be found at http://www.ulm.edu/biology . My apologies for cross-posting.

Russ Minton, Ph.D. Assistant Professor, Department of Biology University of Louisiana at Monroe Monroe, LA 71209-0520 ph: 318-342-1795 fax: 318-342-3312 http://homepage.mac.com/russminton/-index2.htm minton@ulm.edu

UNorthFlorida EvolAging

Research Assistantship in physiology of aging and the University of North Florida. A graduate research assistant (M.S.) is available. Starting date could be anytime between September 2006 and August 2007 (prefer January 2007). This research involves studying a basic question in life history biology, namely the effects of the ovary on aging, independent of nutrition. The reproduction vs. longevity trade-off is well documented in many organisms, but whether reproduction effects aging by nutrient allocation (e.g., stealing calories from somatic maintenance) or direct effects (e.g., releasing factors that stimulate aging) is unknown. We aim to test this question using a grasshopper model system. Experiments will include testing the effects of ovariectomy on expression of stress proteins (Hsp70) and antioxidation enzymes (superoxide dismutase). An undergraduate degree in biology or a related discipline and interest in working with insects are required. Strong background in enzyme- and immuno-assays and insect biology are preferred. Funding is anticipated for up to 2 years. Starting salary $16,000 plus tuition waiver (contingent on budgetary approval). Application: Send resume or CV, statement of research interests and career goals, copies of university transcripts, GRE scores, reprints, and three letters of recommendation to: Dr. John D. Hatle, jhatle@unf.edu, http://www.unf.edu/-~jhatle/, (904) 620-2778.

John Hatle UNF Biology 904- 620-2778

jhatle@unf.edu

UPompeuFabra AncientDNA

A Ph.D. position in ancient DNA and molecular evolutionary biology is available in the lab of Jaume Bertranpetit (University Pompeu Fabra, Barcelona, Spain) under the supervision of Carles Lalueza-Fox (Univer-

sity of Barcelona, Spain). The evolutionary biology group (http://www.upf.edu/cexs/recerca/bioevo/-index.html) is an international group of students and postdocs that consists of about 30 people from different countries, including Ireland, Austria, Italy and Portugal. The language in the lab is mainly English.

We are currently working on Mammoths and Neandertals, but we get involved in interesting evolutionary projects as soon as they become approachable to us. The new student would retrieve mitochondrial and nuclear genes from Neandertal samples now available for study at our laboratory and help develop new techniques of analysis. The new ancient DNA lab is going to be placed since september in the outstanding PRBB (Biomedical Research Centre of Barcelona) building (www.prbb.org) next to the Barcelona beach.

We need candidates with excellent qualifications in a Biology degree, with possibilities to apply successfully for a PhD grant at the Spanish Ministry of Education and Science (www.mec.es). The application will be open around september and the grant-contract is for four years. The criteria used for the Ministry is basically the degree qualifications but only people from the European Union can apply (and having finished the degree after 1st January 2004).

Please contact me by email at carles.lalueza@upf.edu or clalueza@ub.edu or send CV and letter of interests at:

Carles Lalueza Fox Unitat d'Antropologia, Dept. Biologia Animal Facultat de Biologia, Universitat de Barcelona Avda. Diagonal 645 08028 Barcelona (Spain)

List of 2006 publications:

Carles Lalueza-Fox, Johannes Krause, David Caramelli, Giulio Catalano, et al. The mitochondrial hypervariable region I of an Iberian Neandertal suggests a population affinity with other European Neandertals. Current Biology (in press).

Holger Römpler, Nadin Rohland, Carles Lalueza-Fox, Eske Willerslev, et al. Nuclear gene indicates coat color polymorphism in mammoths. Science 313: 62.

David Caramelli, Carles Lalueza-Fox, Silvana Condemi, Laura Longo, et al. A highly divergent DNA sequence in a Neandertal individual from Italy. Current Biology (in press).

María Lourdes Sampietro, M. Thomas P. Gilbert , Oscar Lao, David Caramelli, et al. (2006) Tracking down human contamination in ancient human teeth. Molecular Biology and Evolution (in press).

Albano Beja-Pereira, David Caramelli, Carles Lalueza Fox, Cristiano Vernesi, et al. (2006). The origin of European cattle: evidence from modern and ancient DNA. Proceedings National Academy of Sciences USA. 103(21): 8113-8118.

carles.lalueza@upf.edu

VrijeU BehaviouralEvol

PhD position in Behavioural Ecology

Vacancy number: 1.2006.00141

The department of Animal Ecology, within the Faculty of Earth and Life Sciences, Vrije Universiteit Amsterdam, The Netherlands has a PhD position vacant for the project:

"Quantifying sexual conflict in a simultaneous hermaphrodite".

The goal of the project is to investigate the details of sexual conflict in simultaneous hermaphrodites at different biological levels, using the pond snail (Lymnaea stagnalis) as a model system. Within our integrative approach, the focus will lie on experiments designed to quantify the investment in the different components of male reproduction. At the same time, the aim will be to uncover which male component induces the previously-demonstrated changes in the recipient, and whether and/or how these imposed costs can be avoided. The project is funded by the Netherlands Organisation for Scientific Research and may start very shortly.

Tasks - Executing scientific research as detailed in the project description. - Publication of results of the research in scientific journals as well as in a thesis. - Assisting in undergraduate courses given within the Institute of Ecological Science. - Following the PhD educational programme as prescribed by the institute.

Required skills and education - MSc degree in Biology. - Advanced courses in behaviour, animal physiology, ecology, evolution or equivalent are desirable. - Proficiency in both written and spoken English. - Excellent social skills, ability to work independently and high motivation will be assets.

Details The appointment will initially be for 12 months. After a successful evaluation the contract will be prolonged with 36 months. The employment will have to result in a written thesis. Our fringe benefits of employment can be found at www.vu.nl/vacatures . Salary Gross monthly salary, based on experience, amounts to 1.933,- Euro during the first year up to 2.472,- Euro

during the last year.

Information and applications Upon request, applicants can obtain the complete project description from Désirée Hoonhout (tel. +31 20 5987004; desiree.hoonhout@falw.vu.nl). Further information can be obtained from Dr. J.M. Koene (tel. +31 20 5987095; joris.koene@falw.vu.nl) or Prof. Dr. N.M. van Straalen (tel. +31 20 5987070). Please, send your application including your expression of interest (with a brief statement of your personal research aims and interests), a detailed resume, a copy of your graduate work, reprints of published work (if available), and two reference names before 7 august 2006 addressed to Dr. J.M.R.M. Neutelings, managing director Faculty of Earth & Life Sciences, Vrije Universiteit. You may also send your application by e- mail at: falw-vacatures@falw.vu.nl.

Dr. Joris M. Koene Department of Animal Ecology Faculty of Earth and Life Sciences Vrije Universiteit De Boelelaan 1085 1081 HV Amsterdam

Tel: +31 20 5987095 Fax: +31 20 5987123 E-mail: joris.koene@falw.vu.nl URL: http://www.bio.vu.nl/-do/staff/JMKoene.htm URL (incl. PDFs): http://www.jkoene.dds.nl joris.koene@falw.vu.nl joris.koene@falw.vu.nl

VrijeU EvolBehaviour

PhD position in Behavioural Ecology

Vacancy number: 1.2006.00141

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"Quantifying sexual conflict in a simultaneous hermaphrodite".

The goal of the project is to investigate the details of sexual conflict in simultaneous hermaphrodites at different biological levels, using the pond snail (Lymnaea stagnalis) as a model system. Within our integrative approach, the focus will lie on experiments designed to quantify the investment in the different components of male reproduction. At the same time, the aim will be to uncover which male component induces the previously-demonstrated changes in the recipient, and whether and/or how these imposed costs can be avoided. The project is funded by the Netherlands Organisation for Scientific Research and may start very shortly.

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Dr. Joris M. Koene Department of Animal Ecology Faculty of Earth and Life Sciences Vrije Universiteit De Boelelaan 1085 1081 HV Amsterdam

Tel: +31 20 5987095 Fax: +31 20 5987123 E-mail: joris.koene@falw.vu.nl URL: http://www.bio.vu.nl/-do/staff/JMKoene.htm URL (incl. PDFs): http://www.jkoene.dds.nl joris.koene@falw.vu.nl joris.koene@falw.vu.nl

Jobs

Dundee Scotland Bioinformatics Programmer

A two-year bioinformatics programmer post is available to continue the development of TOPALi, a Java-based program for the analysis of molecular sequence data that launches web services via a sophisticated frontend (see http://www.bioss.sari.ac.uk/knowledge/-topali/). The post will be based in the BioSS group (http://www.bioss.ac.uk) at the Scottish Crop Research Institute in Dundee (http://www.scri.ac.uk) , and involves collaboration with Jalview developers (http://www.jalview.org/) at University of Dundee in the VAMSAS project (http://www.vamsas.ac.uk).

REQUIREMENTS:

We envisage that the post would suit either a computer programmer with little or no experience of Biology/Bioinformatics, or a quantitative biologist (e.g. population genetics, molecular evolution) with significant programming experience. The post can develop in a number of ways depending on the skills of the postholder.

Object-oriented programming skills (Java preferably) in one or more of the following areas are required:

- GUI/rich client desktop applications - Networking and web services (eg Axis) - Cluster computing and parallel programming - XML (schemas/DTDs)

Sequence analysis knowledge in the following areas would be useful but is not essential:

- Molecular evolution (e.g. Phylogenetic analysis, Positive selection detection) - Statistical analysis of molecular sequences

SALARY AND BENEFITS

Starting salary will be in the range 23,000 pounds to 26,000 pounds depending on experience and qualifications.

HOW TO APPLY

Applications, in the form of a CV (including names of 3 referees) to: Administrative Officer, BioSS, The King's Buildings (JCMB), Mayfield Road, Edinburgh, EH9 3JZ, U.K. (betty@bioss.ac.uk).

If you are interested in working in the development of TOPALi and would like to discuss how you could contribute to its development, contact Frank Wright (frank@bioss.ac.uk) or Iain Milne (imilne@scri.ac.uk) for computing aspects.

Closing date is Friday 4th August 2006.

frank@bioss.ac.uk frank@bioss.ac.uk

EAWAG Switzerland EvolEcolModeling

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

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

We are seeking an innovative personality with an excellent track record in science and interest in and ideas for interdisciplinary research. She/he should be familiar with the general tools of system analysis and physical / bio-geochemical as well as population ecological and population genetic modelling, be interested in biogeochemical processes in aquatic systems, and in how they link to adaptive processes at population and ecosystem level. He/she should be interested in collaboration with scientists of other disciplines in interdisciplinary projects. A strong background in math or numerics as well as in aquatic physics, aquatic ecology, environmental engineering or biogeochemistry is required. The successful candidate is expected to build a research group and interact intensively and in an interdisciplinary fashion with the other research groups within the Kastanienbaum laboratory (80 persons), and with the departments System Analysis / Modelling, Ecology, Fishecology and Evolution, and other research groups at Eawag. Teaching at ETH is envisaged in the long-term.

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

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

Prof Ole Seehausen Aquatic Ecology & Evolution

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

http://www.fishecology.ch/ Ole.Seehausen@eawag.ch Ole.Seehausen@eawag.ch

NorthernArizonaU ResSpec EvolPathogens

Research Specialist/Technician-Northern Arizona University

The Center for Microbial Genetics and Genomics at Northern Arizona University (http://-www.kgl.nau.edu/) has multiple entry or mid level (Research Technician or Specialist) laboratory positions open. The Center conducts research towards characterizing molecular evolutionary mechanisms of microbial pathogens, such as Bacillus anthracis, Yersinia pestis, Francisella tularensis, and Burkholderia pseudomallei, among others. The large, 35+ person facility utilizes state-of-the-art methodologies and equipment in pursuit of this research. The ideal candidates for the mid level positions will have a Masters degree in an appropriate field or a Bachelors of Science degree and two years of laboratory research experience. Experience with microbial genotyping, fluorescent DNA fragment analysis, Real Time PCR/Taqman assays,molecular genetic data analysis, and working in a BSL-2/3 environment a plus. Supervisory experience also a plus. Candidates for the entry level position should have a Bachelors degree in an appropriate field, with any of the above listed experience a plus.. The Center is located at 7,000 feet above sea level on the mountain campus of Northern Arizona University in Flagstaff, AZ. For more information and application materials, contact James Schupp at James.Schupp@NAU.EDU, or go to the NAU HR Jobs website at http://hr.nau.edu/m/content/view/3/25/. There are multiple vacancies, use the search term "Microbial" to bring up all vacancies in the center.

James Schupp <James.Schupp@NAU.EDU>

Paris EvolFrameworkforBiodiversity

Science Officer Position at DIVERSITAS Paris office

DIVERSITAS (www.diversitas-international.org), the international biodiversity science programme, is seeking a Science Officer for its Paris office, to lead the

implementation of two projects, on Providing an evolutionary framework for biodiversity science“ and ”Discovering biodiversity and predicting its changes“.

We are looking for a highly motivated individual committed to an inter-disciplinary approach to biodiversity science. The position is ideal for a person interested in science, policy and scientific administration.

Required: Ph.D., and experience in taxonomy, evolutionary biology, monitoring or population biology; excellent English skills. Skills in French, a plus.

Duties include: 1) Synthetic scientific activities such as building meta databases, writing overview articles, edit books; and 2) Management activities such as organising and leading workshops; liaise with international conventions; fund raising.

The host institution is the Natural History Museum of Paris.

Employers are CNRS and DIVERSITAS

Position starts late 2006. Appointment is for one year, renewable. Salary is commensurate with experience.

Applications (CV and three references) by 15 Sept 2006 and Inquiries via email to Dr. A. Larigauderie: secretariat@diversitas-international.org

Anne Larigauderie Executive Director DIVERSITAS 51, Bd de Montmorency 75 016 Paris Tel: 33 1 45 25 95 24 (direct) Tel: 33 1 45 25 95 25 (secretariat) Fax: 33 1 42 88 94 31 e-mail: anne@diversitas-international.org www.diversitas-international.org Anne Larigauderie <anne@diversitas-international.org>

QueensU ConservationBiol

Queen's University has two faculty openings:

CONSERVATION BIOLOGIST The Department of Biology at Queen's University invites applications for the Baillie Family Chair in Conservation Biology. We are seeking candidates with a record of excellence in research and a commitment to teaching in any area of conservation biology (behavioural, landscape, evolutionary, population or community ecology, or biogeography), involving the study of birds in the field. The chairholder's research program is expected to be centred at the Queen's University Biological Station (<http://biology.queensu.ca/ ˜ qubs>http://biology.queensu.ca/ ˜ qubs), an excellent field research facility on the shores of Lake Opinicon, about 50 km north of our main campus (<http://www.queensu.ca/->http://www.queensu.ca). QUBS comprises about 2800 hectares (7000 acres) of woodland, field and freshwater habitats with a rich diversity of animal and plant life. The chairholder will develop field courses and contribute to programs aimed at conserving biodiversity at QUBS. This is a tenure-track or tenured position available at the level of Assistant or Associate Professor. Review of applications will begin 15 October 2006 and will continue until the position is filled; expected date of appointment is 1 July 2007. Applicants must submit (by post, fax or email) a curriculum vitae, a statement of research interests (especially with respect to plans for research at QUBS), a statement of teaching interests, and a list of three scientists (with postal and email addresses) that we may contact for letters of reference. Submit applications to Dr. R.M. Robertson, Head, Dept of Biology, Queen's University, Kingston, ON K7L 3N6, Canada (FAX 613-533-6617; EMAIL biohead@biology.queensu.ca). All qualified individuals are encouraged to apply, but Canadians and Permanent Residents will be given priority. The academic staff at Queen's University are governed by a Collective Agreement between the Queen's University Faculty Association (QUFA) and the University which is posted at <http://www.qufa.ca/>http://www.qufa.ca. Queen's is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, aboriginal people, persons with disabilities and persons of any sexual orientation or gender identity.

AQUATIC BIOLOGIST The Department of Biology at Queen's University invites applications for an Aquatic Biologist at the level of Assistant Professor. We seek an individual with a demonstrated commitment to excellence in research and strong teaching potential. The successful candidate will develop a vigorous research program in any area of freshwater aquatic biology, focused at the Queen's University Biological Station. The biological station (<http://biology.queensu.ca/-˜ qubs>http://biology.queensu.ca/ ˜ qubs) located on the shores of Lake Opinicon comprises about 2,800 hectares of property, 50 km north of the main campus in Kingston and features a wide range of freshwater habitats and excellent laboratory facilities. Queen's main campus is situated at the junction of Lake Ontario and the St Lawrence River, providing additional opportunities for research in aquatic biology. The successful candidate will join an expanding group in freshwater fisheries and aquatic sciences (http://biology.queensu.ca/-˜quffas) in the Department of Biology. Review of applications will begin October 15, 2006 and continue until

the position is filled. Expected date of appointment is July 1, 2007, subject to budgetary approval. Applicants must submit (by fax, post or email) a curriculum vitae, statement of current and prospective research interests with particular reference to potential use of the Queen's University Biological Station, statement of teaching interests and a list of three scientists (with postal and email addresses) that we may contact for letters of reference. Submit applications to Dr. R.M. Robertson, Head, Department of Biology, Queen's University, Kingston, Ontario, Canada K7L 3N6 (FAX 613-533-6617; EMAIL biohead@biology.queensu.ca). All qualified individuals are encouraged to apply, but Canadians and Permanent Residents will be given priority. The academic staff at Queen's University are governed by a Collective Agreement between the Queen's University Faculty Association (QUFA) and the University which is posted at <http://www.qufa.ca/>http://-/www.qufa.ca. Queen's is

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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

StKilda SoaySheep FieldAssist

Job: Fieldwork Assistant - Soay Sheep Research on St Kilda

SOAY SHEEP RESEARCH - ST KILDA SUMMER 2006

FIELDWORK ASSISTANT

We are currently looking for a volunteer for this year's Soay sheep summer expedition to St. Kilda, a group of islands 180 km of the coast of north-west Scotland. The expedition runs from mid July till the end of August 2006.

Activities: - Censusing sheep with telescopes and handheld computers - Mortality searches - Assisting in the annual catch up of the sheep

Requirements: . Must be available for the full period stated . Must be fit, St Kilda has a very demanding terrain . A background in Biological Sciences

Travel to the island will be by helicopter from Benbecula (Outer Hebrides) and the team will stay in cottages built by the original inhabitants of St. Kilda (since restored by the National Trust for Scotland). Expenses incurred whilst travelling will be reimbursed and food/accommodation on island are provided. This is an ideal opportunity to gain field experience in large mammal research and to visit St. Kilda, the remotest of British islands.

If you wish to apply for this work then please send a CV with covering letter, a contact phone number and details of two referees than can be contacted immediately.

CONTACT: Jill Pilkington EMAIL: j.pilkington@ed.ac.uk

j.pilkington@zoom.co.uk

TexasAMU EvolBiol

The Department of Biology at Texas A&M University is in the process of searching for multiple faculty members at the Assistant, Associate or Full Professor level. These positions will be in multiple biological disciplines, one of which is evolutionary biology (see attached advertisement), so I would like to encourage evolutionary biologists to apply. Applicants from any area of evolutionary biology will be given full consideration. In addition to the Department of Biology's strengths in evolutionary biology, Texas A&M University has recently created an interdisciplinary program in ecology, evolution and behavior, which fosters interaction among the numerous faculty on campus interested in evolutionary and ecological topics (see http://wfsc.tamu.edu/eeb/-index.htm for more details).

The following advertisement can be found in Science Magazine:

Faculty Positions in Biology, Texas A&M University

The Department of Biology at Texas A&M University (TAMU) invites applications for multiple faculty positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level.

We are particularly interested in outstanding scientists who will enhance our existing programs in Circadian Clocks, Cell and Developmental Biology, Ecology and Evolution, Microbial Genetics, Genomics and Computational Biology, Plant Biology, and Neuroscience. We strongly encourage applications from candidates who will increase the exposure of our students to a diverse culture.

The successful candidates will be expected to maintain a vigorous, externally funded research program and to contribute to the teaching of undergraduate and graduate students. We offer a highly interactive research environment, a strong modern infrastructure, and a competitive startup package. More information about our department can be found at www.bio.tamu.edu. For full consideration, applicants should send a letter of intent, curriculum vitae, statement of research and teaching interests, and three letters of recommendation by September 15, 2006 to:

Biology Faculty Search Committee Department of Biology Texas A&M University 3258 TAMU College Station, TX 77843-3258

If you have questions about this search, please direct e-mails to Dr. Bruce Riley, Chair of the Search Committee, at facultysearch@mail.bio.tamu.edu

Texas A&M University is an Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

Adam G. Jones Assistant Professor Department of Biology 3258 TAMU Texas A&M University College Station, TX 77843 Phone: (979) 845-7774 Fax: (979) 845-2891

agjones@tamu.edu agjones@tamu.edu

UMiami ResTech

THIS POSITION HAS RE-OPENED:

Research Technician - Biology Department, University of Miami, FL Position Number: 032242

A full-time research technician position is available in the Biology Department at the University of Miami, FL in the laboratory of Dr Alex Wilson (http://-www.bio.miami.edu/acwilson/home.htm).

Primary research projects will focus on but are not limited to: the ecology, genetics and molecular evolution of aphids. Primary responsibilities comprise but are not limited to standard molecular biology activities, microarray analyses, sequence analyses, microsatellite DNA fragment analysis, extraction of nucleic acids from insects, primer design, PCR, gel electrophoresis, cloning of PCR amplicons, preparation of DNA sequencing reactions, molecular database searching, insect rearing and greenhouse tasks. Skills in some of these duties are required. The appointed person will also be required to oversee the day-to-day management of the laboratory including the purchase and maintenance of supplies and equipment, and the supervision of undergraduate research assistants.

This position is available August 1, 2006 for one year, with continuation contingent on performance and available funds. This position includes co-authorship in publications. Salary will be commensurate with experience and will include benefits.

Education: B.A. or B.S. degree and experience in molecular biology, evolution, genetics or a related field. Previous laboratory experience with molecular biology and/or genomics is preferred. Familiarity with computational skills; Mac OS, Windows and Linux/Unix is a plus. Experience with rearing insects and growing plants is preferred and familiarity with genetics is required. The successful candidate is expected to be highly motivated, to have excellent team and organizational skills but capable of working with a high level of independence.

A cover letter, curriculum vitae and the names and contact information, including email addresses and phone numbers, of at least three people who agreed to be referees are required to be considered for this position.

Review of applications will begin immediately and will continue until a suitable applicant is found. For more information email: Alex Wilson, acwilson@bio.miami.edu Please apply online http://-um.hodesiq.com/job_start.asp for position number: 032242.

– Dr Alex Wilson Assistant Professor Department of Biology University of Miami 1301 Memorial Drive Coral Gables, Florida 33146-0421 USA

Phone: (305) 284 2003 Office: Cox Science Room 234 http://www.bio.miami.edu/acwilson/home.htm Alex Wilson <acwilson@bio.miami.edu>

UOttawa EvolBiol

The Department of Biology at the University of Ottawa (Ontario, Canada) is searching for a strong candidate to potentially put forward as an applicant for a tier 2 Canada Research Chair (http://www.chairs.gc.ca/). Individuals must be within 10 years of finishing their PhD, do not have to be Canadian citizens or residents at the time of application, and can be working within any biological discipline. To be competitive, a candi-

ate must have a strong track record of publication in top-tier journals; other assets include a demonstrated ability to secure research funding, other forms of recognition (awards), and strong letters of reference. Chairs are attractive positions with reduced teaching and administrative duties, some automatic research funding, and a salary bonus for the duration of the chair (5 years, renewable once).

Female candidates are ESPECIALLY encouraged to apply.

The Department of Biology at uOttawa (http://-www.bio.uottawa.ca/) has growing strengths in evolutionary biology and is housed in new, state-of-the-art research, teaching and office facilities. Although uOttawa is a bilingual institution (english and french), bilingualism is not required for chair positions. Ottawa, Canada's capital, is situated on the Ottawa River on the Ontario-Quebec boarder and is a beautiful, clean, safe, and culturally-diverse city of approximately 1 million english and french speaking residents (http://-www.ottawa.com/). The University is located on the banks of the Rideau Canal in the heart of the city.

Interested candidates should send a copy of their CV to Howard Rundle (hrundle@uottawa.ca). Applicantions will be reviewed on an ongoing basis until a suitable candidate is found or the chair expires.

Cheers, Howard

Howard D. Rundle Assistant Professor - Professeur adjoint Canada Research Chair - Chaire de recherche du Canada Department of Biology - Département de biologie University of Ottawa - Université d'Ottawa 30 Marie-Curie (277 Gendron) Ottawa, Ontario, K1N 6N5, CANADA

T: +1 (613) 562-5800 x2835; F: +1 (613) 562-5486 Email: hrundle@uottawa.ca; Skype: howarddrundle http://www.science.uottawa.ca/ ˜ hrund050/ hrundle@uottawa.ca hrundle@uottawa.ca

UQueensland 4 EvolBiol

Dear all, the School of Integrative Biology at the University of Queensland has four positions currently open, and is likely to be making more appointments in the Ecology and Genomics areas in the near future. Funding rates are comparatively good in Australia at the moment with average success rates for the Australian Research Council grants sitting at around 22%. In addition the Australian Research Council has a Fellowship scheme which allows tenure-track staff to essentially become research-only for five year periods.

Lecturer (Level B)/Senior Lecturer (Level C) in Ecological and Evolutionary Physiology (Vertebrates)

We are seeking someone who takes an integrative approach, from whole organismal ecology/physiology to functional genomics and who works on vertebrates. Candidates who undertake both field and laboratory studies are desired, but applicants with an outstanding research record in any area of ecological and evolutionary physiology are encouraged to apply. Closing date for applications: 25 August 2006.

Lecturer (Level B)/Senior Lecturer (Level C) in Functional Genomic (TWO positions)

We are seeking to make up to two Level B/C appointments in functional genomics. Areas of particular interest include, but are not limited to, the application of functional genomics to whole-organism ecology, evolutionary biology, symbiosis, conservation genetics, ecological and evolutionary developmental biology, and evolutionary and comparative functional genomics. Preference may be given to candidates working on non-model or native organisms. The School of Integrative Biology has existing strengths in molecular genetics, developmental biology, population/quantitative genetics and quantitative/physiological ecology. Candidates with creative research programs that complement and bridge our existing strengths in genetics and whole-organism ecology, are particularly encouraged to apply. Closing date 29 September 2006.

Lecturer (Level B)/Senior Lecturer (Level C) in Plant Ecology

We are seeking a high quality candidate in any area of plant ecology but are particularly interested in individuals that have the capability to utilize genetic tools in their research program. Closing date 29 September 2006.

Remuneration: Gross salary package from $74,533 to $88,508 (Academic Level B) or $91,303 to $105,277 (Academic Level C) per annum. This salary package consists of: Base salary from $63,703 to $75,647 per annum (Academic Level B), or

$78,036 to $89,981 per annum (Academic Level C) plus employer superannuation of 17% of salary; and any other cash benefits, such as allowances or loadings. An employee superannuation contribution of 7% of salary is mandatory. This may be salary sacrificed from pre-tax earnings.

Further Information: Contact Professor Scott O'Neill,

Head, School of Integrative Biology +61 7 3365 2471 or scott.oneill@uq.edu.au

m.blows@uq.edu.au m.blows@uq.edu.au

UQueensland FunctGenomics

School of Integrative Biology - University of Queensland St Lucia, Australia

Lecturer/Senior Lecturer in Functional Genomics

Major new initiative in ecological and evolutionary functional genomics 2 positions available

The School of Integrative Biology at the University of Queensland provides unique opportunities for study or research in plant and animal biology with research programs spanning ecology, molecular plant sciences, marine biology, insects and parasite interactions, and genetics & evolution.

The School is now undertaking a major initiative in ecological and evolutionary functional genomics (EEFG). We have existing strengths in molecular genetics, developmental genetics, population/quantitative genetics and quantitative/physiological ecology.

Primary Purpose of Positions. To engage, as a lecturer/senior lecturer, in undergraduate and postgraduate teaching, postgraduate supervision, and further development in an area of functional genomics related to ecology and evolution, in addition to administrative and other activities associated with the School.

We are seeking to make two Level B/C appointments in functional genomics. Areas of particular interest include, but are not limited to, the application of functional genomics to whole-organism ecology, evolutionary biology, symbiosis conservation genetics, ecological and evolutionary developmental biology, and evolutionary and comparative functional genomics. Preference may be given to candidates working on non-model or native organisms. The School of Integrative Biology has existing strengths in molecular genetics, developmental biology, population/quantitative genetics and quantitative/physiological ecology. Candidates with creative research programs that complement and bridge our existing strengths in genetics and whole-organism ecology, are particularly encouraged to apply.

These are continuing, full-time appointments at Academic Level B/C. The remuneration package will be in the range of AU$74,533 to AU$88,508 (Lecturer level B) or AU$91,303 to AU$105,277 (Senior Lecturer level C) including employer superannuation contributions of 17%.

Closing date for applications: 29 September 2006 Reference Number: 3014451

Obtain the position description and selection criteria online (http://-www.seek.com.au/jobsearch/index.ascx?legacy=true&AdvertiserID2832&cboLocation=&cboWorkType=&cbo
boIndustry=&cboOccupation=&txtKeyword=) or contact Ms Shani Hill on +61 7 3365 7947 or email hr.bacs@uq.edu.au .

Contact the Head of School, Professor Scott O'Neill on +61 7 3365 2471 or email scott.oneill@uq.edu.au to discuss the role.

Send applications to Human Resources Officer, Faculty of Biological and Chemical Sciences, University of Queensland, St Lucia, QLD 4072 Australia or hr.bacs@uq.edu

Applications are to be sent to the email address specified above or to the name and organisation unit shown at the address: University of Queensland, Brisbane, Qld 4072. Please quote the Reference Number and include a. a covering letter that includes the vacancy reference number, your contact address and telephone number; b. a curriculum vitae, that includes details of education and qualifications and the names and contact details of three referees; and c. a statement addressing how each of the selection criteria have been met.

Equal opportunity in employment is University policy

Bernie Degnan School of Integrative Biology University of Queensland Brisbane Qld 4072 Australia

Tel +61 7 3365 2467 Fax +61 7 3365 1655

b.degnan@uq.edu.au

URennes FieldAssist

Field assistants wanted

for a project examining the factors affecting insect diversity in oak tree canopies in France.

Arthropods in the canopy represent one of the most diverse, widespread and least studied communities in temperate regions. In the present project we will study the role of atmospheric stress (desiccation, NH3 emissions) and island biogeographic processes (colonization,

extinction) on arthropod biodiversity. We thus envisage the canopy as an archipelago of tree crown islands in a sea of air. We will study diversity at the species level, but also at a historical, i.e. phylogenetic level. We will also explore the consequences of arthropod diversity for their functional role, particularly as grazers and dispersers of cryptogams. Principle investigators are Richard Bailey and Andreas Prinzing, University of Rennes 1.

The fieldwork will be in the Forêt de Rennes, a large mixed deciduous and evergreen forest just outside the city of Rennes; the capital of the region of Bretagne (Brittany), north-west France; see http://www.rennes.fr/-; http://www.region-bretagne.fr/CRB/-Public/rubriques_thematique/visiter_la_bretagne/-la_bretagne_une_reg/la_bretagne_en_image/.)

We are looking for people who are available in particular between mid August and the end of October 2006, and will give preference to anyone who can stay for a significant length of time during that period.

The work would be particularly beneficial for biology students or recent graduates who wish to gain experience in entomological fieldwork and more generally in biodiversity measurement and research. Some knowledge of insect identification, and of tree climbing, would be useful but is not essential as training will be given where necessary. Some ability to speak French would also be useful, but again is not essential.

There are no salaries associated with the positions. However, food, accommodation costs and cheap flights to Dinard airport (Ryanair fly to Dinard from East Midlands and London Stansted in England) will be paid. Besides the valuable field experience to be gained, we are able to offer advice on manuscript preparation, statistics, careers in research in France, and training in French, if such things would be useful, and may offer co-authorship to someone willing to stay for a long period.

Anyone interested please contact me on r_1470@yahoo.co.uk, giving dates when you expect to be available.

A tout a lheure!

Dr Richard Bailey Université de Rennes 1 Unité Mixte de Recherche CNRS 6553 ≪ Ecobio ≫ : Ecosystèmes - Biodiversité - Evolution Campus de Beaulieu, Bâtiment 14A 263 Avenue du Général Leclerc 35042 Rennes Cedex, France

See also websites: andreas.prinzing@univ-rennes1.fr http://ecobio.univ-rennes1.fr/Fiches_perso/-Fiche.asp?pseudo=APrinzing http://ecobio.univ-rennes1.fr/Fiches_perso/Banque/publi1_APrinzing.doc r_1470@yahoo.co.uk r_1470@yahoo.co.uk

ZoolSocSanDiego PrimateMolGenet

Job: primate molecular genetics; CRES/Zoological Society of San Diego (postion re-opened).

Conservation and Research for Endangered Species (CRES).

The Zoological Society of San Diego has a short-term technical position immediately available to undertake comparative molecular genetic studies of primates. Supported by a National Science Foundation award to establish the Integrated non-human Primate Biomaterials and Information Resource (www.ipbir.org), the person filling this position assist with molecular genetic characterization of primate samples, especially cell cultures, including generating and analyzing mitochondrial and nuclear DNA sequence information and, for some taxa, microsatellite genotyping. This is a short term position (approximately one year) and not generally appropriate for postdoctoral career advancement. For further information and to submit an application, please see the job posting at www.sandiegozoo.org . The job posting closes July 28 and the position will be filled as soon as possible.

oryder@ucsd.edu oryder@ucsd.edu

Other

ANOVA answers

Hello,

Here are the answers for multi-level (>3) hierarchical anova. there is a R packages designed for this kind of problem : HIERFSTAT (http://www2.unil.ch/-popgen/softwares/hierfstat.htm) by Jérôme Goudet. I also had an answer mentionning that the Statistica software seemed to be able to handle it with no problem.

Thanks for all the answers !

beltrame@mnhn.fr

Coleoptera NuclearMarkers answers

Thanks from our lab to all those friendly responses to our query. Herewith again my original request and the promised summary of all the suggestions and tips (if you are interested in PDFs or protocolls or other links - please let me know, I won't attach it all here cause I don't want to hog all your mailboxes):

our initial query: "we are busy with phyolgeographic studies of Scarabs (Coleoptera) and are struggling to get enough good loci in a microsatellite library (even using enrichment). Does anyone have experience with microsatellites in beetles and would be prepared to share this (especially encountered problems or special tricks or idiosyncracies)? Is it possible that Coleoptera (just as Lepidoptera) do not have that many microsatellite loci? Could you recommend any other nuclear marker for phylogeographic and conservation genetic studies in beetles?"

..and now ...the answers:

1) I would say that Coleoptera have plenty of microsatellites, but they are difficult to find.

I suggest two things.

1- try and get access to the EST libraries of Volger and company, see attached paper. Scan these EST seqeunces for microsatellites. 2- move on and try and get nuclear gene markers that are variable with indels. I think that this is pretty easy to do. Again, get the ribosomal protein genes for Coleoptera, which are now in gene bank. Make primers at the 5' and 3' end of these genes and PCR them for several individuals. I imagine you will find some size variation in the PCR products. Just use this as your molecular marker. You could also try and do Restriction Enzyme digests on these PCR products that don't have any size variation- to get variation among individuals in what cuts/does not cut.

See the second attached paper explaining that using nuclear genes can be just as informative as microsatellite loci. Given that you probably can't get the micorsatellite loci, you certainly can get the ribosomal proteins to PCR for your species.

best of luck and let me know if you have any questions,

Chris

2) Dear Ute,

my husband was just forwarding me your mail, there are two things: first it looks as if some beetles really do not have many repetative sequences in the genome, but that

is not easy to estimate. In the lab I used to work were two students which were isolating mircosats from beetles (Curculionoidea and Chrysomeloidea), and both had problems but at the end they got some. Here in Madrid they use a very fast PCR based method that seems to work well for the group of animals they are working with. If you want I can ask the detailed protocol. The other thing is that you could try ITS, this is easy to amplify and for population/subspecies studies not too bad. This might be worth to try. I have been using this for Lepidoptera and certainly can find the primer sequence but they should be available in the literature.

Hope that helps a bit, in case you have some molecular questions please do not hesitate to ask, I am not very good with the beetles but the molecular work is fine.

Greetings to Clarke, even though he might not remember me from the time in London, since I am not a beetle person.

All the best, Ali – Dr. Alexandra Cieslak Department Biodiversidad y Biologia Evolutiva Museo Nacional de Ciencias Naturales Jose Gutierrez Abascal, 2 28006 Madrid Spain

3) We have developed primer sets for about 65 gene regions (single- copy protein coding genes) IF you are interested in cDNA work (RT-PCR). If you are uncomfortable working with RNA, we have a few of the same genes that work with genomic DNA.

bernie ball Duke University

4) Dear Ute,

In response to your message regarding useful nuclear markers in Coleoptera: I am a phylogeneticist specializing in Auchenorrhyncha (Hemiptera), however, I worked on a molecular phylogenetic the Hawaiian Platynini (Carabidae; Jim Liebherr's group of interest) as a Post-doc. Attached is a .pdf of the paper resulting from my work with that group, in which I sequenced 28S and wingless from the nuclear genome. I know that Jim Liebherr has published a number of other papers on Platynini that deal more specifically with the group's phylogeography, as well.

Best of luck!

Jason

Jason R. Cryan, Ph.D. Director, Laboratory for Conservation and Evolutionary Genetics New York State Museum 3140 Cultural Education Center Albany, NY 12230 Phone: (518) 486-2008 E-Mail: jcryan@mail.nysed.gov FAX: 518-486-2034

5) Hi Ute, I'm a PhD student working on beetles (Tenebrionidae) in fragmented systems. I too have found it very difficult to develop good microsatellite loci as well as other non-microsatelite nuclear markers for population genetics. The best I can offer is our paper (attached): Schmuki C, Blacket MJ, Sunnucks, P (2006) Anonymous scnDNA markers for two endemic log-dwelling beetles: Apasis puncticeps and Adelium calosomoides (Tenebrionidae: Lagriinae: Adeliini). Molecular Ecology Notes 6, 362-364. Unfortunately our exhaustive efforts yielded only 5 polymorphic markers

— / —

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

DanielLachaise passes

Dear Colleagues,

We are very sorry to inform you that Daniel Lachaise died suddenly on the second of July. Several events and publications in his honour have been planned for the remainder of 2006.

- a special day for his friends and the family on the 23^rd September - an international workshop in autumn - a compilation of all his published work. - a special issue of the Annals of the Entomological Society of France

A webpage dedicated to Daniel will be activated tomorrow on the lab web site (www. legs.cnrs-gif.fr). You can also send a message to the laboratory using the following new address: daniel@legs.cnrs-gif.fr Any souvenirs and/or photos of our colleague and friend would be most welcome.

Sincerely,

The Evolution, Genomes and Speciation Lab. Centre National de la Recherche Scientifique Avenue de la Terrasse 91198 Gif/Yvette Cedex FRANCE

pierre.capy@legs.cnrs-gif.fr

Database Plant Biogeo

We have established a simple database for plant historical biogeography which is accessible under

http://www.plant-biogeography.fb10.uni-mainz.de
The intention of this database is to facilitate the search for comparative data in the area of historical plant biogeography. Accordingly, you can search by taxon, distribution range and age (of origin of a range) either alone or in combination. First entries can be found under, e.g., Chenopodiaceae, Gentianaceae, Plantaginaceae, Poaceae, Restionaceae. The database will only be filled through the input of data by authors of biogeographical publications. As the usefulness of the database increases with the amount of data it contains, it would be helpful if you could enter your own data. Plant images and distribution maps can be added to your information on taxon, distribution and age.

Any contribution is greatly appreciated!

Joachim W. Kadereit – Prof. Joachim W. Kadereit, Ph.D. Institut fuer Spezielle Botanik und Botanischer Garten Johannes Gutenberg-Universitaet Mainz 55099 Mainz Germany

Tel.: +49 6131 39 23755 FAX: +49 6131 39 23524 e-mail: kadereit@uni-mainz.de http://-www.spezbot.fb10.uni-mainz.de/ – Dr. Dirk Albach Institut für Spezielle Botanik Johannes Gutenberg-Universität Mainz Bentzelweg 9b 55099 Mainz

Tel.: +49 (0)6131 3923169 Fax.: +49 (0)6131 3923524

albach@gmx.net

DiscoverLife web site

Maps of Bee Specimens and Valid Bee Names Now Available Online

John Pickering's Discoverlife Web Site, based at the University of Georgia (www.discoverlife.org), has added some powerful new tools and databases to its inventory of bee related information.

Interactive biogeographic maps can be viewed at: http://stri.discoverlife.org/mp/20m?act=make_map. Users can generate global maps of any species or group of species, can zoom or overlay map layers, and can pull up individual record information by clicking on the map. Lists of species names can be accessed by typing in the genus name in the search box of the Discover Life Home Page (http://www.discoverlife.org).

John Ascher at the American Museum of Natural History has added over 10,000 georeferenced specimen records. To facilitate this, he uploaded 18,000 valid (and nominally valid) names of world bee species to the site. This initial species list should be used with caution. Updates with additions and corrections of errors already discovered will be made soon.

Leah Larkin at the University of New Mexico has added over 24,000 georeferenced specimen records compiled from several museums and the literature.

These databases join the existing 80,000 records from the University of Kansas and the USGS Patuxent Wildlife Research Center.

– Leah Larkin, Ph.D. Research Assistant Professor Department of Biology MSC03 2020, 167 Castetter Hall 1 University of New Mexico Albuquerque, NM 87131-0001 (505) 277-2388 (Lab) (505) 239-6036 (Cell) (505) 277-4225 (Museum) (505) 277-0304 (FAX)

Leah Larkin <llarkin@unm.edu>

DriedInsect DNA

Hi All,

Does anyone have any experience, or a robust protocol, for extracting DNA from museum insect specimens? The insects in question were collected and stored in alcohol before being pinned out - they're about a year old by now.

Regards, Tom Murray

Tomás Murray, School of Biological Sciences, Medical and Biology Centre, Queen's University Belfast, 97 Lisburn Rd., Belfast BT9 7BL.

Tel.: +44-28-9097-2110 Fax: +44-28-9097-5877 Email: t.murray@qub.ac.uk

Tomás Murray <t.murray@qub.ac.uk>

EtOHpreservation pHBuffering

Dear Evol-dir readers,

I would like to know whether any reader can add to my observations and resulting proposal about the use

of a pH buffer in the alcohol used to preserve marine (or other) collections.

My particular interest is in brachiopods, most of which have calcitic shells.

The shells of specimens that have been in pickle for a long time (e.g. a newly-received batch preserved in 1991) are invariably weaker than they would be when fresh.

Many of my collections are kept in heat-sealed plastic bags, and it is evident that even at -20C, gas slowly evolves during longterm storage; the bags swell.

It is well known that the pH of distilled water is generally about 5.5 because of bicarbonate ions from absorbed atmospheric carbon dioxide.

Putting these facts together I conclude that the acidity of unbuffered ca. 70% - 90% ethanol attacks calcite, with the liberation of carbon dioxide and that it would be better for the alcohol to be buffered above pH 7.0. This might also reduce DNA degradation.

Hence my question:

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

If buffered ethanol is not in general use, is it not likely to be a better preservative than unbuffered?

Bernie Cohen

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

Phone: (+44) (0)141 330 5103 (direct line) 330 6219 (secretary) 339 8855 (switchboard) Fax: 330 4878 http://www.gla.ac.uk/ibls/molgen/staff/cohenbl.html b.l.cohen@bio.gla.ac.uk

Evolutionary Bibliography

Other: Newer Versions of a Big Evolutionary Bibliography

Some time ago I posted a bibliography of evolutionary, ecological and population genetics on EvolDir. Initially it only worked for Macintosh users. However, the new version should work with both Macintoshes and PCs. The bibliography has now grown to more than 12,000 references on evolutionary, ecological and population genetics, many of them with abstracts. You are free to download the whole thing by going to:

http://www.nottingham.ac.uk/biology/contact/-academics/clarke/special.phtml Bryan Clarke, Institute of Genetics, Queens Medical Centre, Clifton Boulevard, Nottingham NG7 2UH UK

Bryan Clarke <bryan.clarke@nottingham.ac.uk>

Flowering schedules

We study assortative mating by flowering time in plants, and we have recently developed new quantitative methods to determine the degree of assortative mating and the effects of this assortment on reproductive isolation and potential gene flow. We are currently looking for data sets with which to apply these methods.

We are looking for published or unpublished data sets containing flowering schedules. Flowering schedules are descriptions, for individual plants, of the number of flowers open at specific time intervals (daily, weekly, etc.) for the duration of the flowering period either for the lifetime of the plant or for at least one season in perennials. The ideal form of the data is a matrix in a spreadsheet or text file with individuals listed as rows and time periods listed as columns.

The plants can be of any species and the data can be from populations in the field, greenhouse or lab. Researchers studying plant mating systems, pollination biology, reproductive ecology, plant phenology and development, floral biology, population ecology, natural selection, demography, or rare plant conservation biology may be especially likely to have such data.

If you also have any other quantitative genetic information, such as heritability estimates or selection gradients, population genetic data, demographic data or any other population level information on the same plants, this would be especially valuable.

If you have data meeting these specifications or know of anyone who does, please contact Art Weis at aeweis@uci.edu. We will be happy to provide sample data and relevant reprints upon request.

Thank you,

Art Weis

Dept. of Ecology and Evolutionary Biology 321 Stein-

haus Hall The University of California, Irvine Irvine, CA 92697-2525

aeweis@uci.edu

sfranks@uci.edu

Frozen Ark Project

Other: The Frozen Ark Project

Evolutionary biologists may be interested to know about this project, which aims to save the DNA (and, where possible,frozen viable cells) of endangered species before they go extinct,

Many individual museums, zoos, and other research institutions have made frozen collections, but the Ark aims to set up an international consortium so that we can sample the world's endangered species in a systematic fashion. Currently we have members in the USA, Britain, India, South Africa, Australia and New Zealand It is a very large task, so we seek individuals and organizations interested enough to contribute their time, expertise or money to this objective. We are only concerned with endangered species. Becoming a member of the Frozen Ark Consortium demands a high degree of commitment.

Information about the Frozen Ark can be found on its web site (www.frozenark.org) and/or by emailing me (bryan.clarke@nottingham.ac.uk)

Bryan C. Clarke, Institute of Genetics, Queens Medical Centre, Clifton Boulevard,Nottingham NG7 2UH, UK

Bryan Clarke <bryan.clarke@nottingham.ac.uk>

GenDecoder server

Dear colleagues,

we have developed a web-server to help characterizing the (usually variant) genetic code of metazoan mitochondrial genomes. Its name is GenDecoder and is available at: http://darwin.uvigo.es/software/-genDecoder.html GenDecoder is fully described in the recently published NAR web-server issue. Abascal F, Zardoya R, Posada D. (2006) GenDecoder: genetic code prediction for metazoan mitochondria. Nucl. Acids Res. 34: W389-W393; doi:10.1093/nar/gkl044

We hope it is of your interest. Federico Abascal, Rafael Zardoya and David Posada.

fabascal@mncn.csic.es

Key Innovation test

I'm interested on testing key innovation hypotheses by using the ML method proposed by Sanderson & Donoghue in a paper published on Science in 1994 ("Shifts in diversification rate with the origin of Angiosperms"). I read that this method is already implemented in a software that is called LRDIVERSE. Is that information correct? If so, does anyone know how can I download a copy of the software?

Dr. Andre O. Simoes Institute of Systematic Botany University of Zürich Zollikerstrasse 107 CH 8008 Zürich, Switzerland Tel: +41 (0)44 6348351 Fax: +41 (0)44 6348403 e-mail: simoes@systbot.unizh.ch

Leaf Area survey

Ecological study of herbivory often requires estimation of leaf area removal. Methods of measuring leaf area removal vary from using visual estimation, to utilizing more exact digital quantification. Computer software/hardware for digital leaf area measurement , although accurate, can be time consuming, expensive, and cannot always be brought to the field. On the other hand, visual estimation is a very quick and easy method to use in the field. Upon searching articles that dealt with leaf herbivory, more than 1/3 used a form of visual estimation, often categorizing leaves by their percent herbivory into anywhere from 3-8 categories. Although visual estimation is a commonly used method, the accuracy of this method is not known. Our aim is to determine the accuracy of visual estimation in comparison to digital quantification through the use of a web based survey. This survey is composed of 100 leaves with varying percentages of herbivory. Below the picture of the leaf are a series of buttons listing each category of herbivory (1%<, 1-25%, 26-50%...).

The surveyor then chooses the corresponding category to which he or she believes best describes the leaf area loss. We would greatly appreciate your anonymous participation in this survey which should take no more than 10 minutes to complete. This is part of a larger research project that also includes the development of leaf area measurement software for PDAs. This software program will be accurate and easy to use in the field. If you would like more information about this software or if you are interested in testing a free copy once it is finished, please leave your e-mail on the survey information page. Thank you for taking the time to read about my research and participate in the survey. Your completion of this survey will help with the development of better methods for herbivory measurement in the field.

The survey can be taken at:

http://mathcs.muhlenberg.edu/leaf Thanks again,

Kendra James Muhlenberg College

–

Norris Z. Muth

Biology Department Muhlenberg College 2400 Chew St. Allentown, PA 18104

muth@muhlenberg.edu http://life.bio.sunysb.edu/-˜ nmuth http://life.bio.sunysb.edu/ee/pigliuccilab/ muth@muhlenberg.edu

Link to Dendronautics

I'd like to contact any evolutionary biologists interested in using airships and similar aerial platforms to carry-out sampling or observation immediately above tropical rain forest canopy. For more information see: www.dendronatics.org Thanks, Graham

Graham Dorrington <g.dorrington@qmul.ac.uk>

Link to Dendronautics 2

Corrected message:

I'd like to contact any (evolutionary) biologists interested in using airships or similar aerial platforms to carry-out sampling or observation immediately above tropical rain forest canopy. For more information see: http://www.dendronautics.org/ Regards

Graham Dorrington <g.dorrington@qmul.ac.uk>

Microsat data

Hi all, I have a set of microsatellite data of a tetraploid species, and there are less than 5% individual-locu combinations shew multi-alleles (3 and 4). Since it seems that no program can do HWE and LD on polyploid microsatellite, and also estimate various genetic distances (although genetic diversity can be calcualted using the recent program TETRASAT), I want to treat multi-allele combinations as missing data, and then run the data as diploid. Could you give me some suggestoions or comments? Thanks.

Regards, Ming Kang

ming.kang@wbgcas.cn

Onagraceae samples

I am writing in the hopes that some of the Evoldir recipients can help us obtain seed from a number of species in the Evening Primrose family (Onagraceae). In collaboration with Mark Rausher (Duke University) and Warren Wagner (Smithsonian Institute), we are studying how variation in plant sexual systems affects the molecular and phenotypic evolution of plant defenses in the Onagraceae. In this project, we are taking a comparative approach and as such we require seed from various Calylophus spp., Gaura spp., Gayophytum spp., and Oenothera spp. distributed across North America and South America. If you would be willing to help us obtain seed for any of the species listed below, please do not hesitate to send me an email (or call).

Thank you very much!

Marc

Any seed from the following Onagraceae taxa would be greatly appreciated:

CALYLOPHUS

Calylophus serrulatus

C. berlandieri

C. hartwegii

C. lavandulifolius

GAURA

Gaura biennis

G. longiflora

G. demareei

G. triangulate

G. suffulta

G. brachycarpa

GAYOPHYTUM

Gayophytum heterozygum

G. oligospermum

G. eriospermum

OENOTHERA

O. biennis

O. coquimbensis

O. grandiflora

O. elata ssp. elata (preferred) or hirsutissima

O. perennis

O. spachiana

O. fruticosa

O. grandis

O. kunthiana

O. laciniata

O. lasiocarpa

O. longituba

O. mendocinensis

O. mexicana

O. multicaulis

O. nana

O. ravenii

O. stricta

O. tetraptera

O. texensis

O. versicolor

Marc Johnson

Dept. Ecology and Evolutionary Biology University of Toronto

25 Willcocks St.

Toronto ON M5S 3B2

CANADA Office: 416-978-2035 Lab: 416-946-7390 www.evoeco.org "Marc Johnson" <johnson@botany.utoronto.ca> "Marc Johnson" <johnson@botany.utoronto.ca>

Phylogeographical Info System

Over last 20 years a very large number of phylogeographic and population genetic studies have been published. This body of data constitutes a Millennium baseline for spatial genetic variation (a component of biodiversity). Analysis of the data has resulted in the identification of common spatial pattern that has extended our knowledge of the role of past climate and landscape change in the generation of biodiversity and speciation. Hypothesized historical scenarios have been shown to correlate to sub-fossil evidence and more recently the output of ecological niche models coupled to palaeoclimate reconstructions. Geographical information systems have recently been employed to analyze distribution maps of related taxa to identify suture zones as well as support the above activities. There is, however, no central data repository for the storage of phylogeographic reconstructions and hence the facilitating of such comparative and interdisciplinary analyses.

Sponsored by the National Evolutionary Synthesis Center (www.nescent.org <http://www.nescent.org/>) I am developing a phylogeographical information system (PGIS) for storing, visualizing and analyzing phylogeographic data as spatiotemporal networks (trees, networks and pairwise distance matrices). Presently the PGIS is an early prototype; however, to test the system and aid in the development of analysis and visualization tools I wish to collate phylogeographic models for European and Mesoamerican taxa. Specifically, I am putting out a request for phylogeographic data for European and Mesoamerican taxa (within and between taxa). I request,

1. Trees as a NEWICK strings. 2. Sequences and character matrices from which the trees were derived. 3. Meta data on tree construction. 4. Coordinates for sample locations.

Variety is good as I am intending to develop a generic model. Please note that I am also putting out specific requests for published data, however, the less of these I make the more time I have for system development.

I am also interested in feedback from the wider community on potential applications, analysis methods and collaborative efforts. NESCent funds working groups to stimulate and develop such synthetic collaborations.

Look out for the forthcoming editorial in the Journal of Biogeography, Kidd and Ritchie (2006) Phylogeographic information systems: putting the geography into phylogeography. J of Biogeog., in press.

For further information, suggestions and comments, please contact, David Kidd, email: dk@nescent.org

dk@nescent.org

PlantBiogeography database

We have established a simple database for plant historical biogeography which is accessible under

http://www.plant-biogeography.fb10.uni-mainz.de
The intention of this database is to facilitate the search for comparative data in the area of historical plant biogeography. Accordingly, you can search by taxon, distribution range and age (of origin of a range) either alone or in combination. First entries can be found under, e.g., Chenopodiaceae, Gentianaceae, Plantaginaceae, Poaceae, Restionaceae. The database will only be filled through the input of data by authors of biogeographical publications. As the usefulness of the database increases with the amount of data it contains, it would be helpful if you could enter your own data. Plant images and distribution maps can be added to your information on taxon, distribution and age.

Any contribution is greatly appreciated!

Joachim W. Kadereit – Prof. Joachim W. Kadereit, Ph.D. Institut fuer Spezielle Botanik und Botanischer Garten Johannes Gutenberg-Universitaet Mainz 55099 Mainz Germany

Tel.: +49 6131 39 23755 FAX: +49 6131 39 23524 e-mail: kadereit@uni-mainz.de http://-www.spezbot.fb10.uni-mainz.de/ – Dr. Dirk Albach Institut für Spezielle Botanik Johannes Gutenberg-Universität Mainz Bentzelweg 9b 55099 Mainz

Tel.: +49 (0)6131 3923169 Fax.: +49 (0)6131 3923524

albach@gmx.net

Platinum wire

Hello everyone,

Our lab's supplier (VWR) of platinum wire (30 gauge, 0.254mm diameter) no longer carries this product. Can anyone point me to an alternate supplier of platinum wire?

Thanks, Brad Davis

davis@zoology.ubc.ca

PublEvol survey answers

Dear All

thank you very much for your responses about publishing evolution biology.

There were 136 respondents! (and four later ones not incorporated yet). 1 from Argentina, 4 Australia, 2 Belgium, 9 Canada, 1 Colombia, 2 Finland, 3 France 6 Germany, 1 Greece, 10 International or unknown, 1 India, 1 Italy, 1 Japan, 1 New Zealand, 4 Netherlands, 1 Norway, 2 Portugal, 3 South Africa, 1 Spain, 4 Sweden, 8 Switzerland, 17 United Kingdom, 51 USA, 1 Venezuela.

I posed the questions to help inform the debate that the Society for the Study of Evolution and its journal EVOLUTION is having about the fairest and best way to publish evolutionary biology, but the opinions and information I summarize here do not necessary reflect the views of the SSE.

Please read this with some generosity it is far from perfect and is not rigorous in data collection, analysis or presentation. But I think there are some interesting messages here about what people think about publishing, and how this differs among regions. Interestingly, there are strongly dichotomous opinions among people who would like the same outcomes as each other.

COMMENTS MADE ABOUT MODE OF PUBLISHING / ACCESSIBILITY

PAGE CHARGES & WAIVERS Interesting dichotomy: ON ONE HAND. 13 people (x) said they oppose page charges on principle 14 x Poorly funded people/countries cant afford page charges, page charges are the first thing to go when funds are tight / after end of grant after retirement Numerous people said waivers for page charges when people cant afford them are a good thing. That said, many people dont ask for waivers, but many do and all but only ˜ 6% are granted.

BUT ON THE OTHER HAND 11x approve of open access publishing because of its fairness to poorly-funded people, but they usually entail high page charges. Several also pointed out that many Non-profit / Society journals / Open Access tend to have higher page charges for good reasons that have fair outcomes for access, and so favour these journals.

So open access and cheap journals are great for equalizing access to READING science, but they entail page charges, sowill work best to make PUBLISHING accessible to everyone if there is a near-perfect waiver system for people who cannot afford page charges. This assumes that publishing has to be paid for somewhere, and presumably a good way to help is to reduce the cost of publishing.

ELECTRONIC PUBLISHING COMMENTS 3x Should go entirely electronic. Various suggestions for improved features (bibliographic software interface, colour, cheapness, print format, speed).

EDITORIAL ISSUES 5x Double-blind reviewing should be used

The journal Evolution should be faster - but 2x said the journal has done well in increasing speed

Pauls comment: handling times have been coming down consistently for the last 5 years, and are ˜ 20% faster than in 2000. New processes will make them faster still. But it will take a while for people to realize how strong the improvement has been.

10x Evolution has high quality articles / scientific standards 2x Should accept LaTeX

CONTENT of journals in the field We need more journals in evolutionary biology There should be an applied evolution journal We need a low-end evolutionary biology journal

SOME SUMMARIES of responses to questions

Q1. If you have to pay page charges to publish in a good journal (typically in the order of USD60 per page), how much of a disincentive relative to other factors is this to submit to that journal?

Several common responses: - free-access supporters: there is no disincentive because paying to publish means free/cheap access for poorly-funded scientists - its-unethical-to-charge-to-publish-science supporters: total disincentive - will not submit papers to journals with page charges on principle - journal quality is very important, and if high enough, will pay page charges - depends on level of funding. Scientists from poorly-funded countries and many graduate students (etc) elsewhere avoid page charges

There were strong regional differences in opinions about page charges.

North Americans, Scandinavians and Swiss responded similarly to each other (page charges no issue ˜55%, some issue ˜30%, big issue ˜ 15%) - while UK & continental Europe were less kindly-disposed to page charges (page charges no issue ˜35%, some issue ˜20%, big issue ˜ 45%) - while Australasia, S America, S Africa and India were reasonably consistent in almost the opposite response: (page charges no issue ˜15%, some issue ˜25%, big issue ˜ 60%)

Q2. Have you ever decided to not submit to a particular journal on the basis that you would incur page charges, and if so, how often (eg rarely, usually etc)?

Common answers: -Never -Avoid if at all possible within limits of publishing in good, relevant journal - Will certainly choose a no-charge journal over equivalent one that charges

— / —

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

SelectiveSweeps

Hi,

I'm looking for examples of a selective sweep occurring at the same locus in multiple species.

In other words, cases in which an allele has swept recently (recently enough to infer the sweeps occurrence), but independently in two (or more) species in the same gene. I'm guessing this may be most likely in arms-race scenarios, e.g. host/parasite interaction or sexual conflict genes.

I am only interested in nuclear and recombining genes, i.e. not plastids/mitochondria or Y chromosomes.

Any pointers to the literature would be much appreciated!

Regards,

Darren

– Darren Obbard IEB, Ashworth Labs Kings Buildings University of Edinburgh, UK darren.obbard@ed.ac.uk

Tabanidae samples

Dear all,

I am looking for a few samples of tabanid flies (Diptera: Tabanidae). They are to be used as an outgroup in a molecular phylogenetic study, to mark this crucial branch of the Diptera.

Any species will do, as long as I can have 5-10 individuals, determined to the species level, killed and preserved in liquid nitrogen or -80C. I will cover expenses for shipping in dry ice via DHL.

Thank you a lot

Francesco Nardi

Francesco Nardi, Dr.

Dept. of Evolutionary Biology University of Siena

via Aldo Moro 2 - 53100 Siena Italy

Ph.: +39.0577.234420 (lab. 4398) Fax.: +39.0577.234476 nardifra@unisi.it nardifra@unisi.it

Unsuccessful Selection Expts answers

Thanks to everyone who sent me responses to my request for lists of selection experiments that were unsuccessful (i.e. no response). I am posting the final list here rather than responding to everyone individually, as there were a lot of responses. I believe the list below is accurate, but of course I'm responsible for any errors. And if I've missed anything, please email me. There is also one more, not listed, that I'm submitting for publication.

Thanks, Jerry

Experiments in which selection on at least one trait failed to achieve a response:

Baer, C. F., and J. Travis. 2000. Direct and correlated responses to artificial selection on acute thermal stress tolerance in a livebearing fish. Evolution 54:238-244.

Bradshaw, A. D. 1991. Genostasis and the limits to evolution. Phil. Trans. Roy. Soc. Lond. 333:289-305.

Breuker CJ, Brakefield PM, 2003. Lack of response to selection for lower fluctuating asymmetry of mutant eyespots in the butterfly Bicyclus anynana. Heredity. 91(1):17-27.

Collins, R. L. 1969. On inheritance of handedness 2. Selection for Sinistrality in Mice. Journal of Heredity 60:117-&.

Collins, S., and G. Bell. 2004. Phenotypic consequences of 1,000 generations of selection at elevated CO2 in a green alga. Nature 431:566-569.

Conner, J. K., and A. A. Agrawal. 2005. Mechanisms of constraints: the contributions of selection and genetic variance to the maintenance of cotyledon number in wild radish. Journal of Evolutionary Biology 18:238-242.

Coyne, J. A. 1987. Lack of response to selection for directional asymmetry in Drosophila melanogaster. J. Heredity 78: 119.

Hall, M., A. K. Lindholm, and R. Brooks. 2004. Direct selection on male attractiveness and female preference fails to produce a response. Bmc Evolutionary Biology 4:-.

Hoffmann, A. A., R. J. Hallas, J. A. Dean, and M. Schiffer. 2003. Low potential for climatic stress adaptation in a rainforest Drosophila species. Science 301:100-102.

Hulata G., G.W. Wohlfarth, and A. Halevy, 1986. Mass selection for growth rate in Nile tilapia (Oreochromis niloticus). Aquaculture, 57:1-4.

Maughan, H., and W. L. Nicholson. 2004. Stochastic processes influence stationary-phase decisions in Bacillus subtilis. Journal of Bacteriology 186:2212-2214.

Maynard Smith, J., and K. C. Sondhi. 1960. The genetics of a pattern. Genetics 45:1039-1050.

Purnell, D. J., and J. N. Thompson. 1973. Selection for asymmetrical bias in a behavioral character of Drosophila melanogaster. Heredity 31:401-405.

Tuinstra, E. J., G. Dejong, and W. Scharloo. 1990. Lack of response to family selection for directional asymmetry in Drosophila melanogaster : Left and right are not distinguished in development. Proceedings of the Royal Society of London Series B-Biological Sci-

ences 241:146-152.

Zijlstra, W.G., Kesbeke, F., Zwaan, B.J., and Brakefield, P.M. (2002). Protandry in the butterfly Bicyclus anynana. Evol. Ecol. Res., 4: 1229-40

Zijlstra, W. G., Steigenga, M.J., Brakefield, P.M., and Zwaan B.J. (2003). Simultaneous selection on two-components of life-history in the butterfly Bicyclus anynana. Evolution, 57: 1852-1862

Jerry Coyne <j-coyne@uchicago.edu>

Unwanted Polaroid Film

Since many labs have switched to digital image capture for gels and microscopy, I'm wondering if anyone out there has outdated and/or outmoded Polaroid peel-apart film packs collecting dust in their lab. If so, I'd pay postage to take it off your hands, for a good (artistic) cause. Type 665 film, in particular, would be very useful – but I'd gladly take any of the peel apart types (664, 667, 52, 53, 55 etc.), in either 3.25x4.25 or 4x5 inch sizes.

Thanks in advance for checking and/or passing on the request to any lab(s) you think might be looking to discard such film. I can be reached at n- pearson@uchicago.edu.

Nathan Pearson

Nathan Pearson <n-pearson@uchicago.edu>

mtDNA avian heteroplasmy

This is a multi-part message in MIME format.

——_=_NextPart_001_01C6A402.50165D4E Content-Type: text/plain; charset="us-ascii" Content-Transfer-Encoding: quoted-printable

Hi,

I was wondering if anyone has encountered mixed haplotypes of mt DNA in birds and if this means there's heteroplasmy? What are the possible causes of this and how often does this happen?

kind regards,

Paula den Hartog

Paula M. den Hartog Behavioural Biology Institute of Biology Leiden Leiden University

Kaiserstraat 63 2311 GP Leiden The Netherlands

Phone: + 31 71 527 5015 Fax: + 31 71 527 4900 E-mail: denhartog@rulsfb.leidenuniv.nl <mailto:denhartog@rulsfb.leidenuniv.nl> Mail: PO Box 9516, 2300 RA Leiden, The Netherlands

——_=_NextPart_001_01C6A402.50165D4E

PostDocs

AmherstCollege MatingSystemEvol

1 YEAR POSTDOCTORAL POSITION - BIOLOGY, AMHERST COLLEGE

A 1-year postdoctoral position with research activities to include: addressing the evolutionary ecology of plant and fungal mating systems and the impact on disease dynamics.

Minimum Qualifications: Ph.D. in Biology or related field with research experience in plant and/or fungal reproductive ecology and evolution (particularly involving self-incompatibility systems), population genetics, molecular ecology and biology of invasion or disease is required. Start date expected to be September 1, 2006.

APPLICATION DEADLINE DATE: August 16, 2006

Please contact Michael Hood (MHood@amherst.edu, 413-542-8552) to inquire about this position. Applicants should mail a CV and names and contact information for three references. Ph.D. in Biology or related field is required.

Amherst College is an Equal Opportunity/Affirmative Action employer and Encourages women, persons of color, and persons with disabilities to apply. Amherst is committed to increasing diversity and candidates who believe they will contribute to that goal are encouraged to apply.

Michael E. Hood, Ph.D. Department of Biology McGuire Life Sciences Building Amherst College Rts 9 & 116 Amherst, MA USA 01002-5000 phone: (413) 542-8552 email: MHood@amherst.edu

Michael E. Hood Department of Biology University of Virginia Charlottesville, VA 22904 Phone: (434) 982 5462 Lab: (434) 243 5077 www.people.virginia.edu/~meh2s/website/MEHood.htm After July 1, 2006: Michael E. Hood Department of Biology McGuire Life Sciences Building Amherst College Rts 9 & 116 Amherst, MA USA 01002-5000 ph. (413) 542-2314 fax (413) 542-7955 email: MHood@amherst.edu

"Michael E. Hood" <Michael.Hood@virginia.edu>

Bergen EvolFishEcol

POST DOC IN EVOLUTIONARY FISHERIES ECOLOGY

Postdoctoral fellowship is available in the project "Sustainable harvesting of marine resources" funded by the Research Council of Norway. The project is run as collaboration between Institute of Marine Research and University of Bergen, Norway. The project will investigate the effects of fisheries-induced evolution by a combination of theoretical life-history models, species-specific life-history models, and selection experiments. For more information on the project, see http://-www.uib.no/people/nzlcj/sustainable/ . The postdoctoral position is hosted by the Institute of Marine Research (http://www.imr.no). IMR is one of the largest marine research institutes in the world, focusing on both applied and fundamental research. The main office of IMR is located in Bergen, an attractive town with rich cultural and academic life, and with surroundings offering excellent opportunities for all sorts of outdoor pursuits.

The postdoctoral fellow, together with PhD student to be hired to the project at the university, will use mathematical modelling to investigate: * effects of fishing on life history traits using energy allocation models for Atlantic cod, herring, and blue whiting, * coupling between oceanographic circulation models and the dispersal of early life history stages, and * the effects that differences in larval survival and growth at different spawning locations along the Norwegian coast may have on the evolution of age and size at maturation and length of the spawning migrations.

The postdoctoral position includes a 6-month visit to the Department of Biology at University of California, Riverside (http://www.biology.ucr.edu/) where the fellow has opportunity to work with professor David Reznick and professor Derek Roff. The qualifications are a PhD degree in a relevant field and skills in life history theory, ecological and evolutionary modelling and an interest in fisheries.

The postdoctoral position is for 36 months. The salary follows the government scale (level 54, currently NOK 378,400/ year, or about 48,000 EUR/year). Female applicants are strongly encouraged to apply. Preferred starting date is in early autumn 2006. The review of applications will start August 18 and continue until the position is filled. For more information, please contact Mikko Heino (http://www.imr.no/research/-heino), preferably via e-mail (mikko@imr.no).

An application, consisting of an application letter, curriculum vitae and two references, should be sent to the Personnel Division, Institute of Marine Research, P.O. Box 1870 Nordnes, NO-5817 Bergen, Norway. Mark the

application with the reference number "27-06". Please also submit an electronic copy of the application to Mikko Heino by email.

mikko.heino@imr.no mikko.heino@imr.no

Berne ConservationBiol

Postdoctoral position in Conservation Biology

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

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

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

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

Closing date: open until filled, but all application materials, including CV, a summary of research experience, copies of any published or in-press papers, and two letters of recommendation should be received by August 1st, 2006, to ensure full consideration. The positions will start in late 2006 or early 2007. Candidates should provide a short description of their proposed research direction and demonstrate how they intend to integrate within the host research group. In a cover letter they should also indicate when they could take up the position. Please send all application material to the secretarys office, Mrs Susanne Maurer, Baltzerstrasse 6, CH-3012 Bern, Switzerland. Email applications, as well as incomplete applications will not be considered. For inquiries please contact <mailto: michael.schaub@nat.unibe.ch> michael.schaub@nat.unibe.ch or <mailto: raphael.arlettaz@nat.unibe.ch> raphael.arlettaz@nat.unibe.ch.

Dr. Michael SCHAUB Div. Conservation Biology Zoological Institute University of Bern Baltzerstrasse 6 CH-3012 Bern Switzerland Tel. ++41 (0)31 631 31 63 Fax. ++41 (0)31 631 45 35 e-mail: michael.schaub@nat.unibe.ch

&

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

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

HebrewU InvasiveBirds

Post-doc position available: Invasive Birds in Europe

A post-doctoral position is available starting September 2006 for a study on invasive birds in Europe. The post-doctoral fellow will be part of the European Commission Sixth Framework multi-country

consortium DAISIE (Delivering Alien Species Inventories for Europe). The fellow will work together with Dr. Salit Kark and the Biodiversity Research Group (<http://biodiversity-group.huji.ac.il/>http://-/biodiversity-group.huji.ac.il/), and will be based at the Hebrew University of Jerusalem, Israel. The postdoctoral fellow will also take part in workshops of the consortium members in Europe at least twice a year.

The study includes mapping and analysis of spatial and temporal patterns and processes of invasion using a database of invasive birds in Europe recently created as part of this study, and will take part in more detailed research on the worst avian invaders. More details in: <http://www.europe-aliens.org/>http://-www.europe-aliens.org/ . The successful candidate will also have an opportunity to engage in other ongoing studies and in fieldwork studying native and alien birds in Israel. This includes a study on biodiversity changes along altitudinal gradients in Mount Hermon and a study on the establishment process and impacts of cavity-nesting alien birds (e.g., the common myna, rose-ringed parakeet and several others).

Requirements: Strong ecological and statistical background, experience with avian ecology and/or evolution (preference will be given to those experienced with invasion biology and spatial ecology), experience with GIS, experience in analyzing large databases.

The position is available for 17 months (September 2006 to January 2008). For more details and to apply, please send an e-mail with a cover letter, your CV plus your list of publications, and names and contact info (address and e-mail) of three references to:

Dr. Salit Kark The Biodiversity Research Group Dept. of Ecology, Systematics and Evolution, The Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem 91904, Israel Phone: 972-2-6585714 Fax: 972-2-6584741 E-mail: salit@cc.huji.ac.il Web page: http://biodiversity-group.huji.ac.il/ salit@cc.huji.ac.il

IIASA Austria 3 EvolDynamics

Dear Colleagues,

I am writing to inform you of three postdoctoral research opportunities at IIASA. Two are institute-wide competitions, and scholars can apply to work with any of IIASA's research programs and special projects. The third is being offered by IIASA's Evolution and Ecology Program (EEP), which investigates how evolutionary dynamics shape ecological populations and communities. Details on the positions, with information on how to apply, are appended below.

The International Institute for Applied Systems Analysis (IIASA) is located just outside Vienna, Austria. IIASA is an independent, international institution, supported by the U.S. and sixteen other governments, which engages in scientific research aimed at providing policy insight on issues of regional and global importance. The National Academy of Sciences serves as the U.S. National Member Organization. More information about the Institute is available on its web site at http://-/www.iiasa.ac.at . General questions about IIASA and about U.S. participation in the Institute can be directed to me. Specific questions about the postdoctoral positions should be addressed to the contacts listed in the announcements.

Please forward this message to possible candidates, and post it on any relevant listservs.

Thank you for your help.

Sincerely yours, Maggie Goud Collins

TWO IIASA POSTDOCTORAL SCHOLAR POSITIONS

IIASA is accepting applications for postdoctoral scholars to work with its research programs and special projects in the following fields:

Atmospheric Pollution, Evolution and Ecology, Forestry, Land Use & Agriculture, International Negotiation, Population & Climate Change, Risk & Vulnerability, World Population, Dynamic Systems, Energy, New Technologies, Energy Strategies, Health & Global Change, Integrated Modeling, Greenhouse Gas Initiative

The postdoctoral fellowship is typically awarded for 12-24 months. Applicants must have an advanced university degree equivalent to a PhD, a proven record of research accomplishments, and a solid working knowledge of English. Preference will be given to NMO country nationals, and those who have held a doctoral degree for less than five years at the application deadline. In addition to filling out an online personal information form (http://www.iiasa.ac.at/-Admin/ YSP/pdoc/appl-form.html), applicants will be expected to submit 1) a research plan for intended work at IIASA, 2) a discussion of the relevance of the planned research for IIASA's agenda, 3) a letter of support by chosen IIASA host, and 4) names and contact details of three individuals who can be contacted to provide a letter of reference.

Details on the goals, conditions, eligibility, and application procedures can be found at http://-www.iiasa.ac.at/Admin/YSP/pdoc/ index.html Applications will be accepted until 15 August 2006, with the decision taken by 15 September 2006.

Evolution and Ecology Program (EEP) Postdoctoral Research Scholar

The EEP Postdoctoral Research Scholar will develop and analyze innovative numerical models of biological speciation. In these models, individuals are situated on two-dimensional landscapes and are subject to multi-locus genetics and local ecological interactions. More detailed information about this approach is available through the following reprints: * Doebeli M & Dieckmann U (2003). Speciation along environmental gradients. Nature 421: 259 264 http://www.iiasa.ac.at/ ˜ dieckman/ reprints/DoebeliDieckmann2003.pdf and http://-www.iiasa.ac.at/ ˜dieckman/reprints/Tautz2003.pdf * Dieckmann U & Doebeli M (1999). On the origin of species by sympatric speciation. Nature 400: 354 357 http://www..iiasa.ac.at/-˜dieckman/reprints/DieckmannDoebeli1999.pdf and http:// www.iiasa.ac.at/ ˜ dieckman/reprints/-TregenzaButlin1999.pdf * Doebeli M & Dieckmann U (2004). Adaptive dynamics of speciation: Spatial structure. In: Adaptive Speciation, eds. Dieckmann U, Metz JAJ, Doebeli M & Tautz D, pp. 140 167. Cambridge University Press http://www.iiasa.ac.at/-˜dieckman/reprints/ DoebeliDieckmann2004.pdf

Candidates will have a PhD in theoretical biology, physics, applied mathematics, or computer science. Previous experience with individual- based models will be an asset, and good programming skills in a compiled language like C will be important.

This position is for one year and can be extended for two additional

— / —

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

MacquarieU FunctionalGenomics

Plant ecology/global change/evolutionary history/functional genomics. We are seeking an outstanding Postdoctoral-level researcher to work at the ARC-NZ Research Network for Vegetation Function. The Network is convened by Mark Westoby and Ian Wright at Macquarie University (Sydney, Australia). The successful candidate's role will be high-impact research through collaboration with one or more Network working groups. Working group participants are leading researchers from nearly 50 universities and research organizations in Australasia, Europe and the Americas. Current topics span from functional genomics through ecophysiology and functional ecology to global change and evolutionary history. Selection criteria for this position include knowledge at the leading edge of research in at least one of these fields, excellent skills in numerical modeling or statistics, and a talent for theory, data synthesis, and for writing for publication. The position is available for a period of 3 years full-time with probationary period of 1 year. Additional information is available at http://www.vegfunction.net/research/postdoc.htm, and any enquiries should be directed to the Network administrator, Robyn Delves (rdelves@bio.mq.edu.au). Please visit http://www.jobs.mq.edu.au to apply online. Closing date for the position is 4 September, 2006.

Dr Ian Wright Dept. of Biological Sciences, Macquarie University 2109, Australia phone +61 2 9850 4228 fax +61 2 9850 8228 iwright@bio.mq.edu.au http:/-/www.bio.mq.edu.au/ecology/wright/wright.htm http://www.bio.mq.edu.au/ecology/vegfunction/ Ian Wright <iwright@bio.mq.edu.au>

Smithsonian SeabirdGenetics

Seabird Evolutionary Genetics Postdoc at Smithsonian Institution

A postdoctoral research position conducting genetic and phylogeographic analyses of seabirds is available in the Genetics Program of the Smithsonian Institution in Washington, DC. The position is available for one year, with the possibility of additional years. We will be investigating genetic structure and systematics of a variety of seabird taxa in different geographic regions. Applicants should have a background in molecular (PCR, DNA sequencing and microsatellite analysis) methods and phylogeographic and phylogenetic analyses. Experience in seabird biology/genetics is a plus. Some fieldwork in coastal regions and oceanic islands is expected. Please send a letter of application detail-

ing your experience, a full curriculum vitae, examples of your work (pdfs), and the names, addresses, phone numbers and email addresses of at least two references who know your work and abilities. Email application materials to Dr. Rob Fleischer (fleischerr@si.edu), Dr. Betty Anne Schreiber (SchreiberE@aol.com) and Dr. Terry Chesser (chessert@si.edu). The position will begin no later than January 2007. Review of applications will begin on 1 September 2006.

Robert C. Fleischer Genetics Program National Museum of Natural History National Zoological Park Smithsonian Institution 3001 Connecticut Ave., NW Washington, DC 20008-0551, USA phone 202-633-4190; fax 202-673-0040 fleischerR@si.edu (note yet another new email address) USE STREET ADDRESS

FleischerR@si.edu

UBern CichlidMolGenet

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

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

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

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

Prof Ole Seehausen Aquatic Ecology & Evolution

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

http://www.fishecology.ch/

UCSanFrancisco HumanMouseEvol

Post-doc position available: Human and Mouse genetics

A vacancy has arisen within the Balmain Lab at UCSF http://cancer.ucsf.edu/balmain/index.php for a postdoctoral position studying the genetic basis of susceptibility to development of cancer. We are seeking a scientist with experience in mouse/human genetics and a strong bioinformatics background. The techniques involve extensive analysis of genomic and gene expression microarrays of RNA and DNA from mouse and human tumors and normal tissue samples. The selected individual will be working in a team environment to identify patterns of gene expression or genomic changes in tumors that can be associated with tumor susceptibility, diagnosis or prognosis. Extensive experience in the preparation and analysis of microarray data is essential, together with knowledge of network analysis, gene pathway analysis, and basic programming skills. Experience in the use of both Windows and Linux-based systems and in the use of graphics visualization tools would be an advantage. Salary will be based on NIH guidelines.

Requirements: PhD in biology, bioinformatics, genetics or related field

To apply please send an up to date CV and 3 references to

Gillian Hirst, PhD

Manager for Balmain and Akhurst Labs

ghirst@cc.ucsf.edu.

UChicago MolluscanEvol

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

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

skidwell@uchicago.edu

UChicago PopGenet

POSTDOC IN POPULATION GENETICS, UNIVERSITY OF CHICAGO

A postdoctoral position in population genetics is available in Molly Przeworski's group at the University of Chicago.

The specific research project is flexible, but must be related to adaptation in humans, either through modeling, data analysis or statistical methodology development. Additional research in the group currently focuses on (i) Developing approaches to estimate parameters of speciation models (ii) Learning about human recombination rates from linkage disequilibrium and pedigree data, (iii) Examining the evolution of genes that contribute to human disease.

Our group enjoys close ties with other labs within the Human Genetics department. Moreover, it benefits from the large and outstanding community of researchers in population genetics, statistics and genomics at the University of Chicago.

Applicants for the position must have either a background in population genetics or come from a quantitative field such as statistics and have a strong interest in genetics. Computational skills are essential. Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of recommendation) should be emailed to Molly Przeworski at <mfp@uchicago.edu>.

Molly Przeworski Dept. of Human Genetics University of Chicago http://www.genes.uchicago.edu/-przeworski.html

UChicago TranscriptionFactorEvol

Applications are invited for a postdoctoral position with Ilya Ruvinsky in the Department of Ecology & Evolution at the University of Chicago.

Our research focus is on understanding the patterns and functional consequences of cis-regulatory as well as transcription factor evolution. We are also investigating the control of pan-neuronal gene expression. Currently, we are using C. elegans and related nematodes as primary model systems. These projects offer a variety of exciting opportunities for researchers interested in experimental as well as computational approaches.

The University of Chicago has an outstanding group in Evolutionary Genetics and active and growing groups in Genomics and Evolution of Development. Our laboratory enjoys close ties with several laboratories within the University. This exciting environment is ideally suited for research and training.

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/or 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) future research interests and (4) 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>

UExeter SexualConflict

Post-Doctoral opportunity Tom Tregenza, David Hosken and Paul Eady have a 3 year junior postdoctoral RA appointment available from September 1st 2006 (earliest) on Sexual Conflict Coevolution - Population Size, Divergence and the Emergence of New Variation. This is a NERC funded project joint with David Hosken and Paul Eady using artificial evolution in populations of the bruchid beetle Callosobruchus maculatus. The RA will be based at the Centre for Ecology and Conservation at the University of Exeter Cornwall Campus which is home to a large and dynamic evolutionary ecology research group (http://-www.uec.ac.uk/biology/research/index.shtml). Potential candidates should have or be very close to submitting a PhD in a related subject and have an interest in sexual selection. The project involves lots of beetle pushing, but we're expecting a string of good publications out of it, and you can always go to the beach/surfing in the evenings.

Technician We also have vacancy for a 0.8 time technician based with Paul Eady in Lincoln. This position will primarily involve beetle measuring and other assays.

Please contact Dr T. Tregenza Royal Society Research Fellow Centre for Ecology & Conservation School of Biosciences University of Exeter Cornwall Campus Penryn TR10 9EZ

T.Tregenza@Exeter.ac.uk Tel: (+44) 1326 371862 Fax: (+44) 1326 253638

Reprints of publications can be downloaded from my website: http://www.selfishgene.org/Tom/

DJ Hosken <D.J.Hosken@exeter.ac.uk>

UGeorgia CropWildGeneFlow

A postdoctoral position is available to study sunflower crop-wild hybridization in the Burke lab at the University of Georgia. This position will primarily involve mapping fitness-related QTLs in fully genotyped experimental hybrid populations reared under natural conditions. Candidates should have a strong background in population and/or quantitative genetics. Experience with large-scale field experiments as well as the application of molecular markers to evolutionary questions is desired. Funds are currently available to support this position for up to three years, and the successful candidate will be given the opportunity to develop independent lines of inquiry as time permits.

To apply, please send your CV, a statement of research interests, and letters from three references to:

John M. Burke, Ph.D. University of Georgia Department of Plant Biology Miller Plant Sciences Athens, GA 30602

or via e-mail to: jmburke@uga.edu

Informal inquiries are also encouraged. Review of applications will begin immediately and continue until the position is filled.

For more information about the UGA Department of Plant Biology, please visit:

http://www.plantbio.uga.edu/ Information on the Burke lab can be found at:

http://www.theburkelab.org/ –

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

"John M. Burke" <john.m.burke@vanderbilt.edu> "John M. Burke" <john.m.burke@vanderbilt.edu>

WorkshopsCourses

CSHL ComputationalGenomics Nov8-14

Course announcement - Application deadline, July 15, 2006

Cold Spring Harbor COMPUTATIONAL & COMPARATIVE GENOMICS November 8 - 14, 2006 Application Deadline: July 15, 2006

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, dentifying 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; participants should be comfortable using the Unix operating system and a Unix text editor.

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.

Over the past few years, the course has been expanded to cover more algorithms and exercises on comparative genomics and genome databases.

For additional information and the lecture schedule and problem sets for the 2005 course, see:

http://fasta.bioch.virginia.edu/cshl05 To apply to the course, fill out the form at:

http://meetings.cshl.edu/courses/-courseapplication.asp "William R. Pearson" <WRP@VIRGINIA.EDU>

EdinburghU Coinfection Aug4-5

Dear all,

You are invited to attend an interdisciplinary workshop on co-infection biology, to be held 4-5 August at the University of Edinburgh. Details appear below.

If you would like to attend, please e-mail Simmi Mahajan (smahajan@staffmail.ed.ac.uk) to register.

See you in Edinburgh! cheers, Andrea L Graham

Co-infection Common Ground 4-5 August 2006 A workshop on the ecology, evolutionary biology, epidemiology, & immunology of multi-parasite infections

Talks and discussion sections are scheduled from 1-7pm

on 4 Aug and 10am-6pm on 5 Aug.

Confirmed talks/speakers include... Immunologically-mediated, parasite density-dependent fitness: In theory and in practice Mark Viney & Colin Bleay, Bristol

Dual infection and the cost of immunity during bacterial infection of the crustacean Daphnia magna Stu Killick & Tom Little, Edinburgh

Modelling microparasite-macroparasite interactions Andy Fenton, Liverpool

Are different parasite taxa independently associated with weight in Soay sheep? Barbara Craig, Louisa Tempest & Josephine Pemberton, Edinburgh

Modeling mixed malaria infections: intra-host dynamics, drug therapy and the onset of resistance David Gurarie, Case Western Reserve

Conspecific competition is a double edged sword for malaria drug resistance evolution Andrew Wargo & Andrew Read, Edinburgh

Helminth - malaria interactions. Truth or scare? Mark Booth, Cambridge

Heterogenous interspecific interactions in a host-parasite system Joe Jackson, Nottingham

Parasitology, immunology and pathology: piecing together the jigsaw in a tale of three worms Jo Lello, CSIRO

Chronic, helminth-induced immune responses during co-infection Simmi Mahajan, Constance Finney, & Judi Allen, Edinburgh

Other speakers include (titles to be confirmed): Jan Bradley, Nottingham Isabella Cattadori, Penn State Helena Helmby, London School of Hygiene and Tropical Medicine Achim Hoerauf, Bonn Steve Paterson, Liverpool Sandra Telfer, Liverpool

Full programme will be sent round to registered participants in the week leading up to the workshop.

Dr. Andrea L. Graham Institutes of Evolution, Immunology & Infection Research School of Biological Sciences University of Edinburgh King's Buildings, Ashworth Laboratories Edinburgh, Scotland EH9 3JT

Phone: +44 (0)131-650-7706 Fax: +44 (0)131-650-6564 E-mail: andrea.graham@ed.ac.uk http://-readgroup.icapb.ed.ac.uk/people/agraham.html "Andrea L. Graham" <andrea.graham@ed.ac.uk> "Andrea L. Graham" <andrea.graham@ed.ac.uk>

OeirasPortugal MolEvol July24-28

A Primer on Molecular Evolution, Phylogenetics and Phylogenomics (PMEPP06) July 24th - 28th, 2006

About 10 seats are still available for this highly practical training course. The course and documemntation are in English. Foreign applicants are very welcome. We can help to arrange for cheap accomodation in a nearby academic residence or a small hotel, on request. The deadline is July 14th at 22h00 GMT.

Instructors: HernÃn Dopazo, and Toni Gabaldon Department of Bioinformatics and Functional Genomics Node (INB) Centro de Investigacion Principe Felipe (CIPF) 46013, Valencia, Spain

How to apply: visit the webpage of the course (below) Couse duration: 5 days Cost per attendee: Eur 400,00

Summary: More than 30 years ago, Theodosius Dobzhansky claimed: âNothing in Biology makes sense except in the light of evolutionâ. Currently, the simplest Bioinformatics analysis uses species comparisons in order to hypothesise the function of an novel biological sequence. Moreover, in most Molecular Biology labs, evolutionary and phylogenetic concepts are constantly being used with more or less formality: homology, similarity, evolutionary rates, long branch attraction, rooted and unrooted trees, monophyletic group, molecular clocks, lineage effects, neutralism, cladograms, phylograms, etc. The course covers these and other major concepts in Evolutionary Biology and Phylogenetics. Attendees will acquire specific skills in using the methodology in Comparative and Evolutionary Biology problems. The course is designed to be a mixture of theoretical and practical sessions developed in 5 days, where both classic and recently introduced methods for phylogenetic reconstruction will be covered. As a outcome of the more recent developments in Genomics, the course dedicates a day to Phylogenomics. Phyml, Phylip, MEGA, TreePuzzle, MrBayes and Modeltest-Protest are some of the software resources that will be used in the practical sessions. Elementary knowledge of Biochemistry and Sequence Analysis is useful though not strictly required.

The course webpage, with instructions on how to apply, is available at: http://gtpb.igc.gulbenkian.pt/-bicourses/PMEPP06/PMEPP06.html Pedro Fernandes, Course organizer

For further info on our yearly Bioinformatics training Programme, please visit: http://gtpb.igc.gulbenkian.pt pfern@igc.gulbenkian.pt

UArizona DrosophilaSpeciesCourse Oct26-29

DROSOPHILA SPECIES IDENTIFICATION WORKSHOP 2006 OCTOBER 26-29, UNIVERSITY OF ARIZONA

The Sixth Annual Drosophila Species Identification Workshop will focus on 1. The Species for which whole genome sequencing has been completed 2. The species for which BAC libraries are available 3. Four species groups: melanogaster, obscura, virilis, repleta 4. How to identify and utilize different species 5. FlyBase workshop 6. Field collection 7. Preparation of polytene chromosomes

Instructors include Patrick O'Grady, William Heed, Brant McAllister, Therese Markow, Nicolas Gompel, Steve Schaeffer, Sergio Castrezana.

Registration fee of $350 includes all instruction and materials, traditional Mexican dinner at home of Therese Markow, formal dinner at the Arizona Sonora Desert Museum with keynote speaker. Morning and afternoon coffee, fruit, muffins.

On line registration at http://-stockcenter.arl.arizona.edu/ Therese Ann Markow Regents' Professor Department of Ecology and Evolutionary Biology BSW 310 University of Arizona Tucson, AZ 85721

Office: 520 621 3323 Lab: 520 626 2772 FAX: 520 626 3522

tmarkow@arl.arizona.edu http://eebweb.arizona.edu/-faculty/markow/index.htm

UDublin Biodiversity

MSc./PgDip. in Biodiversity and Conservation School of Natural Sciences, University of Dublin, Trinity College, Ireland

This new course will provide in-depth training and experience for those looking to further their career in various aspects of biodiversity and its conservation, for students wishing to pursue further post-graduate research in this area, and for professionals already working in conservation biology wishing to obtain relevant qualifications. The course will be taught in modules, and these are grouped into theoretical components, practical research skills, and modules dealing with individual desk and experimental research projects. Students may omit the individual research project to be awarded a Post-graduate Diploma, those wishing to obtain the degree of Master in Science must complete a four month individual research project. The School of Natural Sciences has considerable research and teaching capability in biodiversity and conservation, and the course will be taught by staff who are actively engaged in a variety of relevant research projects. Staff from relevant State agencies and institutions who are active in the practical application of conservation science, and biodiversity and conservation policy, will also make contributions to the course teaching. In Spring there will be an overseas field course, the venue for this course has not yet been finalised.

The course will be taught through a variety of methods - lectures, practicals, field-based learning, guided reading and discussion groups and web-based methods. A variety of assessment procedures will also be adopted - essay writing, oral presentations, web-based tests, examinations and assessment of dissertations. The approach will be to develop, progressively, a high degree of independent thinking and academic excellence in students completing the course, providing a smooth transition for those entering both directly from undergraduate degrees, and for those entering the course from industry.

Course Director: Dr S. Waldren Further information on the course and the School of Natural Sciences is available from The School Administrator Tel.: +353-1-6082920 Email: schnatsc@tcd.ie For further information on student life in Trinity College, see http:/-/www.tcd.ie/info/prospectivestudents/ – Dr Trevor Hodkinson Department of Botany School of Natural Sciences University of Dublin, Trinity College D2, Ireland

Phone: 353-1-6081128 Fax: 353-1-6081147 Email: trevor.hodkinson@tcd.ie

hodkinst@tcd.ie

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Full programme will be sent round to registered participants in the week leading up to the workshop.

Dr. Andrea L. Graham Institutes of Evolution, Immunology & Infection Research School of Biological Sciences University of Edinburgh King's Buildings, Ashworth Laboratories Edinburgh, Scotland EH9 3JT

Phone: +44 (0)131-650-7706 Fax: +44 (0)131-650-6564 E-mail: andrea.graham@ed.ac.uk http://-/readgroup.icapb.ed.ac.uk/people/agraham.html andrea.graham@ed.ac.uk andrea.graham@ed.ac.uk

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that

'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterward

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.