
E v o l D i r

October 1, 2005

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

Forward

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

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

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



Forward	1
Conferences	2
GradStudentPositions	11
Jobs	20
Other	44
PostDocs	63
WorkshopsCourses	78
Instructions	80
Afterward	81

Conferences

ArizonaStateU SMBE2006 May24-28	2	Malta MediterraneanSeagrass May29-Jun3 2	6
Atlanta Bioinformatics Nov17-19	3	Montpellier BiolMedSociety Sept23	7
Berlin Bioinformatics Oct10	3	PacificGroveCA ConservGenetics Sept25-28	7
Chicago EvoDevo Oct20-23	3	TucsonAZ Genomics Jan12-14	7
ClemsonU SEEPAGE Sept23-25 3	4	ULeiden EvolSynthesis Sept16 2	8
Edinburgh PopGenetics Dec13-16	5	UMichigan MicroEvol	8
Fribourg ParasiteResistance Oct3-4	5	UMichigan MicroEvol May6 Nominations	9
IowaStateU Morphometrics May29-Jun2	5	USussex HumanAltruism	9
KarlFranzensU QuantTraitVariation Sept26-28	6	WellesleyCollege NEMEB Nov5	10
London Speciation Nov9	6		

ArizonaStateU SMBE2006 May24-28

CALL FOR SYMPOSIA for 2006 Conference on Genomes, Evolution, and Bioinformatics (ANNUAL SMBE MEETING 2006)

The 2006 annual meeting of the Society for Molecular Biology and Evolution will be held from May 24-28, 2006, at the Arizona State University in Tempe. The Organizing Committee invites individuals to present their proposals for potential symposia ideas. Symposia proposals should include:

Cover sheet including symposium title and all information for point of contact Brief abstract including clear description of topic and rationale for its presentation to the society Identify up to four potential participants, affiliations, and what each may specifically contribute

Successful proposals will be identified based on their clarity, innovation, and relevance to the theme of the 2006 meeting: Genomics, Evolution, and Bioinformatics. In addition, proposals that support an emerging field or discipline that reflects the unique and specific interests of the SMBE will also be targeted. Both the society and the committee are especially interested in proposals that highlight diversity in science and include underrepresented groups.

Each symposium will have three to six speakers, with each speaker allotted 25 minutes (plus 5 minutes for questions). The organizers will provide support for the symposium proposer and invited speakers in the form of registration fees. In exceptional cases, the conference organizers are also prepared to provide hotel and airfare reimbursements for invited speakers. All proposals will be considered in the order submitted and proposers will be notified of the committee's decision at the latest by November 15, 2005.

All queries and symposia proposals should be addressed to symposia@smbe.org. Proposals may be received as a Word or PDF attachment via email and must be received on or before November 1, 2005.

Organizing committee Sudhir Kumar, Jeffrey Touchman, and Brian Verrelli George Poste & Jeffrey Trent, Honorary Co-chairs www.biodesign.org/efg www.biodesign.org www.tgen.org Brian C. Verrelli, Ph.D. Center for Evolutionary Functional Genomics The Biodesign Institute Assistant Professor, School of Life Sciences Address: Life Sciences C-344 Arizona State University Tempe, AZ 85287-4501 Tel: 480-965-0398 Fax: 480-965-6899 <http://sols.asu.edu/faculty/-bverrelli.htm> E-mail: brian.verrelli@asu.edu

bvc1972@yahoo.com

Atlanta Bioinformatics Nov17-19

Reminders Online abstract submissions open until September 30 2005 NIH travel grant for PhDs and post-doctoral fellows: nomination due Sep 30 2005. Early registration due October 14 2005 Conference schedule available online Check hotel information on conference website

5th Georgia Tech ORNL International Conference on Bioinformatics, in Silico Biology

“Computational Genomics and Evolutionary Biology” November 1719, 2005, Atlanta, Georgia, USA

Home Page: <http://opal.biology.gatech.edu/-conference/> ORGANIZED BY

Georgia Tech Oak Ridge National Lab

Selected papers will be published in a special issue of BIOINFORMATICS journal (Oxford University Press)

IMPORTANT DATES

November 1719, 2005 Conference time September 30, 2005 Poster Abstract submissions due October 14, 2005 Early Registration due

CONFIRMED INVITED SPEAKERS:

Natalia Komarova, Rutgers University Michael Lynch, Indiana University, Bloomington Pierre Baldi, University of California, Irvine Philip Bourne, University of California, San Diego Volker Brendel, Iowa State University Julio ColladoVides, UNAM, Cuernavaca, Mexico Andrew Ellington, University of Texas at Austin Dmitrij Frishman, University of Munich & MaxPlank, Germany Alex Kondrashov, NCBI / NIH John McDonald, Georgia Tech Jeffrey Thorne, North Carolina State University

STEERING/PROGRAM COMMITTEE

Conference Chairs: Mark Borodovsky, Georgia Tech Eugene Koonin, NCBI / NIH

Program Chairs: Eva K. Lee, Georgia Tech and Emory University Andrey Gorin, Oak Ridge National Laboratory

[PLEASE ACCEPT OUR APOLOGIZES IF YOU RECEIVE MULTIPLE COPIES]

Georgia Tech Conference Announcement
<conf@opal.biology.gatech.edu>

Berlin Bioinformatics Oct10

Dear colleague,

This is to inform you of the upcoming

INTERNATIONAL BCB-WORKSHOP ON MACHINE LEARNING IN BIOINFORMATICS

to be hold at the Magnus House in Berlin on October 10, 2005.

Invited Speakers include

David Wild (Claremont, CA) Gunnar Rätsch (Tübingen) Alessandro Verri (Genova) Jason Hsu (Columbus, OH) Cesare Furlanello (Trento) Mike Showe (Philadelphia, PA) James Reid (Milano)

For detailed information please see <http://-compdiag.molgen.mpg.de/ibcb2005/> Please circulate this announcement to interested scientists in your environment.

Best regards, Rainer Spang Berlin Center for Genome Based Bioinformatics and Max Planck Institute for Molecular Genetics

Rainer Spang <spang@molgen.mpg.de>

Chicago EvoDevo Oct20-23

Final Announcement and Extension of Call for Abstracts Deadline:

We announce the fourth biennial conference on the Developmental Basis of Evolutionary Change at the University of Chicago during 20-23 October 2005. This four-day, graduate student-organized conference has a tradition of assembling, at the intersection of evolution and development, a fellowship of faculty and student conferees of diverse intellectual interests. As such, it has been a fertile occasion for initiating unexpected collaborations and probing new ideas.

WE EXTEND THE ABSTRACT SUBMISSION DEADLINE TO 1 OCTOBER FROM 20 SEPTEMBER. The early registration deadline remains 8 October.

The conference will open with keynote addresses by Peter Holland of the University of Oxford and Naomi Pierce of Harvard University. The themes of the four plenary sessions are Sensation and Sensory Networks; History and Philosophy of Evolutionary and Developmental Thought; Ecology, Development and Evolution; and Genetic Regulation, Evolution and Development. The confirmed speakers for each plenary session can be found at the end of this announcement.

In addition, poster sessions and concurrent sessions comprising shorter, submitted talks from faculty, post-docs, and students will be held on a variety of topics within developmental and evolutionary biology.

The meeting is designed as a special opportunity for more junior members of the scientific community to interact with more established members in an intimate environment and to encourage scientific exchange; including not only the poster and concurrent sessions, but also dinners and receptions during the course of the meeting.

For more information about the conference, including registration and abstract submission, please visit the conference website, <http://dbec.uchicago.edu>. As conference attendance is limited, we encourage you to secure a spot soon.

If you have any questions, please, contact the conference organizers, Todd Martin and Alex Wolf, at dbec@pondside.uchicago.edu.

The confirmed speakers are:

Keynote Addresses Peter Holland, University of Oxford
Naomi Pierce, Harvard University

Sensation and Sensory Networks John Carlson, Yale University
Bernd Fritzsche, Creighton University
Walter Gehring, Universität Basel
William Jeffery, University of Maryland
Steve Kay, The Scripps Research Institute
Dan-E Nilsson, Lunds Universitet
Richard Vogt, University of South Carolina

History and Philosophy of Evol. And Developmental Thought
James Griesemer, University of California,
Davis
Jonathan Kaplan, Oregon State University
Gerd Müller, Universität Wien
Lynn Nyhart, University of Wisconsin-Madison
Robert Richards, University of Chicago
Michael Richardson, Universiteit Leiden
William Wimsatt, University of Chicago

Ecology, Development and Evolution
Jessica Bolker, University of New Hampshire
Josh van Buskirk, The University of Melbourne
Rachel Collin, Smithsonian Tropical Research Institute
Tom Juenger, The University of Texas at Austin
Margaret McFall-Ngai, University of Wisconsin-Madison
Douglas Schemske, Michigan

State University Paul Turner, Yale University

Genetic Regulation, Evolution and Development
Sean Carroll, University of Wisconsin-Madison
William Cresko, University of Oregon
Veronica Hinman, California Institute of Technology
Frederik Nijhout, Duke University
Patricia Simpson, University of Cambridge
Kevin White, Yale University
Gregory Wray, Duke University

tmmartin@uchicago.edu tmmartin@uchicago.edu

ClemsonU SEEPAGE Sept23-25 3

SEEPAGE REGISTRATION DEADLINE EXTENDED TO FRIDAY, SEPT. 2, 2005

Thanks to a University server glitch, my lab web page was down most of Aug. 31. So if you couldn't get registered, we will still accept your registration through Friday this week (2 Sept.). Try <http://www.clemson.edu/-biosci/temp2> if you cannot get through to the Ptacek lab web page. Sorry for the extra trouble.

SEEPAGE 2005-SEPTEMBER 23-25 South-East Ecology, Population Genetics and Evolution 31st Annual Meeting

Hosted by Clemson University, Department of Biological Sciences

SEEPAGE, first organized in 1974 by Drs. James Murray, Janis Antonovics and David West, serves as a forum for the presentation and discussion of a wide range of both empirical and theoretical research in ecology, evolution, genetics and organismal biology. The Southeast portion of the name derives from the regional location of the meeting, but does not mean it's an exclusive atmosphere. The meeting is open to all scientists from any geographic region and research from around the world. Postdocs and graduate students are especially encouraged to present contributed talks (15 min) in a friendly and low-key environment of collegial exchange.

This year's annual meeting will be held at Camp Kanuga, Hendersonville, North Carolina, USA (<http://www.kanuga.org/> - for more info about the camp)

SATURDAY NIGHT KEYNOTE SPEAKER: Dr. David McCauley, Vanderbilt University
SPECIAL GUEST SPEAKER: Dr. Felix Breden, Simon Fraser University

The weekend will also include contributed 15-minute talks, a poster session, and spirits!

Visit the webpage for updates, details and registration form! (<http://people.clemson.edu/~mptacek/> - click on SEEPAGE 2005) or <http://www.clemson.edu/biosci/temp2> REGISTER NOW! Registration deadline is September 2, 2005

NOTE - For questions or more information email Michele (kittell@clemson.edu) or Margaret: (mptacek@clemson.edu).

“Margaret B. Ptacek” <mptacek@CLEMSON.EDU>

Edinburgh PopGenetics Dec13-16

Population Genetics Group conference, Edinburgh, December 2005

The homepage for the meeting is

<http://web.bio.ed.ac.uk/public/conferences/-PopulationGenetics2005/index.html> PLEASE NOTE THAT

THIS IS JUST FOR INFORMATION AT PRESENT, BECAUSE THE INFORMATION IS NOT YET CORRECTE AND THE PAYMENT WEB SITE IS NOT YET FUNCTIONAL.

PLEASE DO NOT ATTEMPT TO REGISTER. FULL REGISTRATION AND PAYMENT WILL BE POSSIBLE SOON.

The deadline for registration will be at the beginning of November.

The dates and place are Tuesday December 13th - Friday December 16th, 2005

Heriot-Watt University, Edinburgh

- Professor Deborah Charlesworth Institute of Evolutionary Biology, School of Biological Sciences, University of Edinburgh, Ashworth Lab., King's Buildings, West Mains Rd., Edinburgh EH9 3JT, UK

phone 131-650-5751 Fax: 131-650-6564

Deborah Charlesworth <deborah.charlesworth@ed.ac.uk>

Fribourg ParasiteResistance Oct3-4

SYMPOSIUM: EVOLUTIONARY ECOLOGY OF

PARASITE RESISTANCE AND TOLERANCE IN PLANTS AND ANIMALS (3-4 October 2005, Fribourg/Switzerland)

Dear colleagues,

we have extended the registration deadline by 10 days to September 12.

For registration please go to the website: <http://www.unifr.ch/biol/ecology/resistevoeco>. There you can also find a preliminary program of the symposium.

In this symposium, we will discuss recent progress in the study of the evolution of resistance and tolerance to parasites (herbivores, fungal and bacterial pathogens, arthropods, etc.) in both plants and animals.

Invited speakers: - Janis Antonovics (University of Virginia, USA) - Yannis Michalakis (CNRS, Montpellier, France) - Paul Schmid-Hempel (ETH Zurich, Switzerland) - Michael Siva-Jothy (University of Sheffield, UK) - Sharon Strauss (UC Davis, USA) - Peter Tiffin (University of Minnesota, USA)

Best regards, Thomas Steinger (thomas.steinger@unifr.ch) Dieter Ebert (dieter.ebert@unibas.ch) Heinz Müller-Schärer (heinz.mueller@unifr.ch)

IowaStateU Morphometrics May29-Jun2

GEOMETRIC MORPHOMETRICS WORKSHOP

IOWA STATE UNIVERSITY AMES, IOWA, USA

May 29 - June 2, 2006

An NSF-sponsored Morphometrics workshop will be held at Iowa State University, Ames, Iowa, USA from May 29 to June 2, 2006. The instructors will be: Dean C. Adams (Iowa State University), F. James Rohlf (SUNY Stony Brook), and Dennis E. Slice (University of Vienna). Keynote speaker: Fred L. Bookstein (University of Washington).

This is a 1-week workshop which provides a comprehensive introduction to both the theory and methods for the analysis of biological shape. Emphasis is on understanding the theoretical background of the field, as well as the practical mechanics of both landmark and outline methods for shape analysis. The main objective of the workshop is to provide students with sufficient knowledge of these approaches that they will be able

to effectively and correctly apply them to their own research programs. Applications in Ecology and Evolution will be emphasized.

The workshop is limited to 20 participants who will be provided with travel grants that include room and board during the workshop. Applications must be received by OCTOBER 1, 2005 to receive full consideration.

Further details on the workshop and application procedure may be found at: <http://www.public.iastate.edu/~dcadams/GMWorkshop/> Dean C. Adams Assistant Professor Department of Ecology, Evolution, and Organismal Biology Department of Statistics Iowa State University Ames, IA 50011 tel: (515) 294-3834 fax: (515) 294-1337 web: <http://www.public.iastate.edu/~dcadams>

Dean Adams <dcadams@iastate.edu>

KarlFranzensU QuantTraitVariation Sept26-28

The Institute of Zoology at Karl-Franzens University of Graz, Austria, would like to announce the "Kerner von Marilaun Workshop 2005 – Demonstration of natural selection by quantitative trait variation analysis - to be held on September 26-28. The meeting is sponsored by the Austrian Academy of Sciences (Commission for Interdisciplinary Ecological Studies) and the University of Graz. The meeting consists of a one-day open symposium (limited to a maximum of 80 people), and a two-day closed workshop. Those interested in attending the open-day (there is no fee), should return a registration form, or contact us as soon as possible. The invited speakers include: Comparative morphology: Jos Snoeks (Africa Museum Trevuren); Molecular Phylogenetics: Axel Meyer (University of Konstanz); Population genetics: Christian Schlötterer (Univ. of Veterinary Medicine Vienna); Cichlid mate choice and speciation: George Turner (University of Hull); Quantitative Trait Loci analysis: Craig Albertson (Harvard School of Dental Medicine); Alastair Wilson (University of Edinburgh); FST - QST analysis: Robert Latta (Dalhousie University). A more formal description of the symposium, schedule of talks, and registration form can be found at <http://www.kfunigraz.ac.at/zoowww/-workshop/KVM-20051.html> Thanks,

Steve

Steven Weiss Dr. Karl-Franzens University of Graz
Institute of Zoology Universitätsplatz 2 A-8010 Graz
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steven.weiss@uni-graz.at steven.weiss@uni-graz.at

London Speciation Nov9

Speciation Symposium

The Natural History Museum, Cromwell Road, London - Wednesday 9 November 2005

Everyone interested in speciation is warmly invited to attend. The symposium will be held in the Flett Lecture Theatre (use Exhibition Road entrance to the Museum and follow signs), beginning at 12.45 and ending at about 18.00. There will be an invited presentation by Patrik Nosil and 10 other talks (programme available on request).

Registration is not required and admission is free. However, if you are interested in joining us for dinner after the meeting, please let one of us know so that we can try to book a table.

Roger Butlin (r.k.butlin@sheffield.ac.uk) and Ralph Harbach (reh@nhm.ac.uk)

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

Malta MediterraneanSeagrass May29-Jun3 2

Mediterranean Seagrass Workshop 2006 - Second Announcement We are pleased to announce that abstract submission is now open!

Please visit the 'abstract submission and publications' page at <http://events.um.edu.mt/msw2006/-Abstracts.html> for further details. You will also be notified of registration details and forms, since this will be available soon. We take this opportunity to remind you of the following important dates: 15th October 2005: Close of abstract submission 15th December 2005: Notification of abstract acceptance 28th February 2006: Close of early registration 30th April 2006: Close of registration 30th May 3rd June 2006: MSW 2006

Please visit the web page <http://events.um.edu.mt/-msw2006/index.html> for further details Thank you!

The MSW 2006 Organising Committee

gpro@szn.it

Montpellier BiolMedSociety Sept23

05/09/05

Chers collègues,

la première réunion du groupe de pensée: "Biologie, Médecine et Société" (BMS) se tiendra au centre IRD de Montpellier, salle 151, le 23 septembre à 16h. Comme prévu, le thème développé sera le débat sur l'"Intelligent Design" (ID; en Français: le "dessein intelligent"). Je commencerai par exposer les termes du débat, une discussion libre suivra. Vous êtes les bienvenus pour me faire parvenir vos points de vue écrits d'ici là. Un compte-rendu sera diffusé à la suite de la réunion.

Comptant sur votre présence,

Dear Colleagues,

the first meeting of the think tank "Biology, Medicine and Society" (BMS) will be held at the IRD center in Montpellier (France), room 151, 23rd September, 4:00 PM. As already scheduled, the topic to be developed will be the "Intelligent Design" (ID) controversy (in French: "dessein intelligent"). I will start the meeting by a talk on the present state of the debate. The debate will be then open to discussion. Meanwhile you are welcome to send your written points of view. A report will be circulated after the meeting.

looking forward to seeing you on the 23rd,

Michel Tibayrenc, MD, PhD Editor -in-chief Infection, Genetics and Evolution (Elsevier) <http://www.elsevier.com/locate/meegid> Director Unit of Research 165 "Genetics and Evolution of Infectious Diseases" UMR CNRS/IRD 2724 IRD, BP 64501 34394 Montpellier cedex 5, France Tel. 33 4 67 41 61 97 (secretary) 33 4 67 41 62 07 (direct) Fax 33 4 67 41 62 99 Email Michel.Tibayrenc@mpl.ird.fr Website <http://gemi.mpl.ird.fr> Michel.Tibayrenc@mpl.ird.fr

PacificGroveCA ConservGenetics Sept25-28

There is still room at the second Conservation Genetics Conference to be held at the Asilomar Conference grounds in Pacific Grove, CA September 25-28.

CONGEN II will feature a dynamic program of speakers from the across the spectrum of Genetics and Conservation Biology. Major topics will be: Adaptive genetic variation, Phylochronology and Demographic history, Genome approaches to conservation, and Technical advances in high throughput analysis. Invited speakers, contributed papers and poster sessions will promote interactions among senior scientists, young faculty, grad students and undergraduates across the wide variety of biological systems studied by conservation geneticists

A schedule of speakers and activities can be found at <http://palumbi.stanford.edu/cg/>. For more information, or to register, email Tim Knight at trknight@stanford.edu.

trknight@stanford.edu

TucsonAZ Genomics Jan12-14

GENOMICS OF CLOSELY RELATED ORGANISMS
January 12-14, 2006 Marriott University Park Hotel,
Tucson, Arizona

The University of Arizona IGERT Program in Genomics is sponsoring an international meeting on the genomics of closely related organisms. It will bring together leading researchers on genome evolution of both prokaryotes and eukaryotes, including empirical, theoretical, and computational approaches. The meeting will take place at the Marriott University Park Hotel adjacent to the University of Arizona campus in Tucson, January 12-14, 2006. The format of the meeting will allow considerable time for informal discussion and interaction among participants. Participation by graduate students and postdoctoral fellows is strongly encouraged, and discounted rates for registration will be

available. For registration and more information, please visit

www.genomics.arizona.edu/meeting2006.html Speakers: Jeffrey Bennetzen, University of Georgia David Haussler, University of California Santa Cruz Philip Hugenholtz, Lawrence Berkeley Joint Genome Institute Austin Hughes, University of South Carolina Peter Keightley, University of Edinburgh Bruce Lahn, University of Chicago Manyuan Long, University of Chicago Kateryna Makova, Pennsylvania State University Nancy Moran, University of Arizona Elaine Ostrander, National Institute of Health Svante Paabo, Max Planck Institute for Evolutionary Anthropology, Leipzig Eduardo Rocha, Centre National de la Recherche Scientifique, France Joana Silva, The Institute for Genomics Research Patricia Wittkopp, University of Michigan Mariana Wolfner, Cornell University

— Michael Nachman Professor, Department of Ecology and Evolutionary Biology Director, IGERT Program in Genomics BioSciences West Bldg. University of Arizona Tucson, AZ 85721

Phone: (520) 626-4595 (office), 626-4747 (lab) Fax: (520) 621-9190 Email: nachman@u.arizona.edu

ULeiden EvolSynthesis Sept16 2

Extending the Synthesis Integrating micro- and macro-evolutionary scales

September 16, 2005, 1-Day Symposium in Leiden, The Netherlands

Speakers: Niles Eldredge, John Thompson, Paul Brakefield, Sergey Gavrillets, Ryan Gregory, David Jablonski, Rich Lenski, William Miller.

This Symposium has grown out of a Working Group organized by Niles Eldredge and John Thompson at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California.

Place: Large Lecture Theatre, Institute of Biology, Leiden University, Kaiserstraat 63, Leiden from 9.45 to 17.30. Maps etc: <http://biology.leidenuniv.nl/-ibl> Further information and registration: brakefield@rulsfb.leidenuniv.nl. Light lunch will be organized for registered attendees; Indonesian Dinner with the speakers is available at 25 Euros per head for registration by 5 September.

Paul Brakefield, Institute of Biology, Leiden, The

Netherlands

Draft Program:

9.45 am Opening and Introduction by Niles Eldredge

9.50-10.30 The ecology of stasis: Species interactions and the coevolutionary process Prof. John Thompson, Dept. of Ecology and Evolutionary Biology, University of California, Santa Cruz, USA

coffee

11.00-11.45 Macroevolutionary theory and genomes-at-large Ryan Gregory; Dept of Integrative Biology, University of Guelph, Canada

11.45-12.30 Dynamic patterns of adaptive radiation Sergey Gavrillets, Dept of Ecology & Evolutionary Biology, Dept of Mathematics, University of Tennessee, Knoxville, USA

Lunch 12.30-13.45

13.45-14.30 The fossil record and the origin of evolutionary novelties, David Jablonski, Dept. of Geophysical Sciences, University of Chicago, Chicago, USA

14.30-15.15 On species and the rate of speciation in the fossil record, William Miller III, Dept. of Geology, Humboldt State University, Arcata, USA

tea

15.45-16.15 On the role of developmental constraints in morphological evolution, Paul Brakefield, Institute of Biology, Leiden, NL

16.15-17.00 Testing evolutionary predictability and contingency by experiments with *E. coli*, Richard Lenski, Department of Microbiology and Molecular Genetics, Michigan State University, East Lansing, USA

17.00-17.45 A new synthesis: From ecology and genetics to extinctions and turnovers, Niles Eldredge, American Museum of Natural History, New York, USA

brakefield@rulsfb.leidenuniv.nl

UMichigan MicroEvol

Last call - Nominations due by this Friday, September 30....

CALL FOR NOMINATIONS

UNIVERSITY OF MICHIGAN YOUNG SCIENTISTS SYMPOSIUM: MICROEVOLUTIONARY PROCESSES UNDERLYING BIODIVERSITY

The Ecology and Evolutionary Biology department at the University of Michigan invites the nomination of outstanding young scientists to take part in a symposium focused on the microevolutionary processes underlying biodiversity to be held May 6, 2006. Topics of interest include: (1) identifying genetic basis of morphological, physiological, or behavioral variations within species or between closely related species; (2) elucidating genetic or biogeographic causes of reproductive isolation and speciation; and (3) understanding evolutionary forces driving speciation and phenotypic evolution. Eight scientists will be selected to present their work.

Senior graduate students (will receive their Ph.D. within one year), postdoctoral researchers, and new assistant professors (< 2 years service) are eligible. Graduate students and postdocs should be nominated by their advisor. Assistant professors may nominate themselves or be nominated by a colleague.

Nominations must include a curriculum vitae and can be sent electronically to opodlaha@umich.edu (subject line: "Nominee for Young Scientists Symposium") or by mail to "Young Scientists Symposium, Department of Ecology and Evolutionary Biology, 2019 Natural Science Bldg., 830 North University, Ann Arbor, MI 48109-1048". All nominations must be received by September 30. Selected participants will be contacted by November 1, 2005.

Organizers: Jianzhi George Zhang jianzhi@umich.edu
Priscilla Tucker ptuck@umich.edu Patricia Wittkopp wittkopp@umich.edu Ondrej Podlaha opodlaha@umich.edu

wittkopp@umich.edu wittkopp@umich.edu

species or between closely related species; (2) elucidating genetic or biogeographic causes of reproductive isolation and speciation; and (3) understanding evolutionary forces driving speciation and phenotypic evolution. Eight scientists will be selected to present their work.

Senior graduate students (will receive their Ph.D. within one year), postdoctoral researchers, and new assistant professors (< 2 years service) are eligible. Graduate students and postdocs should be nominated by their advisor. Assistant professors may nominate themselves or be nominated by a colleague.

Nominations must include a curriculum vitae and can be sent electronically to opodlaha@umich.edu (subject line: "Nominee for Young Scientists Symposium") or by mail to "Young Scientists Symposium, Department of Ecology and Evolutionary Biology, 2019 Natural Science Bldg., 830 North University, Ann Arbor, MI 48109-1048". All nominations must be received by September 30. Selected participants will be contacted by November 1, 2005.

Additional information will soon be available at www.eeb.lsa.umich.edu. Organizers: Jianzhi George Zhang jianzhi@umich.edu Priscilla Tucker ptuck@umich.edu Patricia Wittkopp wittkopp@umich.edu Ondrej Podlaha opodlaha@umich.edu

Patricia J. Wittkopp Assistant Professor Department of Ecology and Evolutionary Biology Department of Molecular, Cellular and Developmental Biology 1061 Natural Science Building 830 N. University University of Michigan Ann Arbor, MI 48109-1048 tel: 734-763-1548 (office) fax: 734-763-0544

wittkopp@umich.edu wittkopp@umich.edu

UMichigan MicroEvol May6 Nominations

CALL FOR NOMINATIONS

UNIVERSITY OF MICHIGAN YOUNG SCIENTISTS SYMPOSIUM: MICROEVOLUTIONARY PROCESSES UNDERLYING BIODIVERSITY

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USussex HumanAltruism

Dear Friends and Colleagues,

This email is to inform you of a one-day meeting entitled Understanding Human Altruism. The meeting will be held at the University of Sussex on Tuesday, 11 October 2005.

The purpose of the meeting is two-fold. First, it will be an opportunity to hear some recent results in the field of human altruism. If you are interested in making a presentation, then please let me know ASAP, providing a title and a short abstract. This should be submitted to altruism@sussex.ac.uk.

Secondly, the day will be an opportunity to organise fund-raising efforts and collaborative research on human altruism. In addition, if participants feel that a UK-based centre for studies on human altruism would be useful, then this meeting could serve as an opportunity to decide on the basic structure and activities of such an organisation.

Speakers at the meeting will include some of the main contributors of research in the area of human altruism and cooperation. Among them are:

Robert Boyd (University of California)

Robin Dunbar (University of Liverpool)

Simon Gaechter (University of Nottingham)

Herbert Gintis (Santa Fe Institute)

Mark Van Vugt (University of Kent)

David Sloan Wilson (State University of New York)

Presentations at the meeting will cover topics such as reputation and altruism, group selection, reciprocity, experimental economics, and theoretical evolutionary studies.

The registration fee for the meeting is £30 for students, and £45 for all others. (That is 30 UK pounds for students, and 45 UK pounds for all others.) This covers admission, coffee, tea, and a light lunch. Only registered delegates will be admitted. To register, please fill out a registration form, which you can find at www.lifesci.sussex.ac.uk/altruism . Send it by as an email attachment to altruism@sussex.ac.uk , or send it by post to:

Joel Peck School of Life Sciences The University of Sussex Brighton BN1 9QG UK

Your registration must arrive by Monday, 3 October 2005. Payments must be in the form of a cheque in UK Pounds, drawn on a UK bank, and made out to The University of Sussex. Alternatively, delegates may register now, and defer payment until their arrival at the meeting. However, delegates paying on the day of the meeting must pay in cash, except by prior arrangement with the conference organisers at altruism@sussex.ac.uk .

altruism@sussex.ac.uk .

The first talk will begin at 9:30AM, and the programme will continue until early evening. A full programme will be soon be available on www.lifesci.sussex.ac.uk/-altruism . The meeting will be held at the University of Sussex Conference Centre, located in Bramber House on the main University-of-Sussex campus in Brighton, East Sussex, UK. (Maps of the campus are available on <http://www.sussex.ac.uk/about/campusmap.html> .)

Many thanks!

Yours, Joel Peck School of Life Sciences The University of Sussex Brighton BN1 9QG UK

j.r.peck@sussex.ac.uk j.r.peck@sussex.ac.uk

WellesleyCollege NEMEB Nov5

Dear Colleague,

We're hosting this year's NEMEB (New England Molecular Evolutionary Biologists) Meeting here at Wellesley College. This is the 16th annual NEMEB and we are hoping for a good turnout. Attached is a flyer announcement that we hope you will forward to your colleagues or post in a visible area in your lab/department. For more information about the meeting please visit us at <http://www.wellesley.edu/Biology/Faculty/-webAndrea/Nemeb2005/Main/main.html> .Please remember there is no registration fee for the meeting and that the deadline for abstract submissions is October 14th. We look forward to seeing you in Wellesley, MA on November 5, 2005.

Andrea Sequeira Assistant Professor Department of Biological Sciences Wellesley College Wellesley, MA 02481 (781) 283-3376 (office and voice mail) (781) 283-3079 (lab) (781) 283-3642 (fax)

asequir@firstclass.wellesley.edu

GradStudentPositions

Biodiversity hotspots fellowships	11	UAlberta EvolGenomics	16
ETH Zurich EvolEcol of Immunity	11	ULausanne PopGenet	17
GeorgiaSouthernU BioInvasions	11	UVienna StatisticalGenetics	17
Goettingen MolPhylogenetics	12	UZurich EvolEcol	18
MasseyU CloverEvol	13	UZurich EvolGenetics Orangutans	18
MaxPlanckInstCologne PlantBreeding	13	UppsalaU AnimalEvolEcol	19
NCStateU QuantitativeTraits	14	UppsalaU EvolEcolGenetics	19
OxfordU SequenceAnalysis	15		
Trondheim EvolBiol	15		

Biodiversity hotspots fellowships

Understanding and Conserving the Earths Biodiversity Hotspots (HOTSPOTS)

HOTSPOTS is a successful multi-site Host fellowship for Early Stage Research Training (EST) of the European Commission. The project extends from 2005 onwards for an initial 4-year funding period.

HOTSPOTS has now entered contract negotiation with the European Commission and will shortly advertise nine EuroPhD fellowships (provided that contract negotiation complete successfully in September/October 2005). Applications will be open on 6 Oct, interviews are expected on 28 Nov - 2 Dec 2005, with starting dates early 2006.

The HOTSPOTS consortium also encourages postdoc applications.

FOR FURTHER DETAILS, see <http://www.kew.org/-hotspots> V.Savolainen@kew.org

ETH Zurich EvolEcol of Immunity

PhD Position

Evolutionary Ecology of Immune Defence

ETH Zurich, Switzerland

A PhD position will soon be available to work on the evolutionary ecology of immune defence. Topics include the evolutionary significance of specificity and phenotypic plasticity in invertebrate immunity. To address

these questions, we will use the flour beetle *Tribolium castaneum* as a model organism. Applications should include a CV, a statement of research interests and experience, as well as the names and e-mail addresses of two references who could be contacted.

For further information, please contact: Joachim Kurtz (joachim.kurtz@env.ethz.ch) or Paul Schmid-Hempel (psh@env.ethz.ch).

Dr. Joachim Kurtz

ETH Zurich Experimental Ecology Universitatsstr. 16
ETH-Zentrum, CHN J12.1 CH-8092 Zurich Switzerland

Phone: + 41 44 633 6032 Fax: + 41 44 632 1271

E-mail: joachim.kurtz@env.ethz.ch

WWW: <http://www.eco.ethz.ch> <http://www.mpil-ploen.mpg.de/english/evoleco/staff/kurtz.htm> *****

joachim.kurtz@env.ethz.ch joachim.kurtz@env.ethz.ch

GeorgiaSouthernU BioInvasions

Subject Line: Seeking Masters Students for Biological Invasions

I am seeking undergraduates interested in pursuing graduate studies at the Masters level. The goal of this NSF-funded project is to study the ecological and genetic basis of invasiveness in plants. The research involves a combination of approaches (e.g. molecular phylogenetics, field work) for exploring the biology of *Silene latifolia* in both its native (Europe) and introduced (North America) ranges. The Department of Biol-

ogy (www.bio.georgiasouthern.edu) at Georgia Southern University has a relatively large and active group with research programs in ecology and evolutionary biology. Please pass this information to any potentially interested undergrads. For more information please contact Lorne Wolfe (wolfe@georgiasouthern.edu); (www.bio.georgiasouthern.edu/wolfe).

– Lorne M. Wolfe Department of Biology Georgia Southern University Statesboro, Georgia. 30460-8042

wolfe@georgiasouthern.edu Phone: 912-681-0848 Fax: 912-681-0845 <http://www.bio.georgiasouthern.edu/~wolfe> Lorne Wolfe <wolfe@georgiasouthern.edu>

Goettingen MolPhylogenetics

Göttingen, Germany: Research Associate (PhD) position in molecular phylogenetics and phylogenomics.

We invite applications for a research associate position in a project funded by the German Research Foundation (DFG) A combined phylogenomic and palaeontological approach to resolve deep phylogenetic incongruences among Phylum Porifera“ in the newly established DFG Priority Programme 1174: ”Deep Metazoan“ The project is located in the Department of Geobiology (Working group of Junior Prof. Dr. Gert Wörheide) of the Geoscience Centre of the University of Göttingen (Germany). The Dept. of Geobiology is also part of the Göttingen Centre for Biodiversity and Ecology.

Topic: The phylogenetic relationships among lower metazoan groups (i.e. diploblast taxa Porifera, Ctenophora, Cnidaria) are still under hot debate and are far from being resolved. Uncertainty also exists about whether poriferans (sponges) are monophyletic or paraphyletic. If the latter turns out to be corroborated, it has significant implications for the evolution of ”higher“ animals, as it would suggest that the most recent common ancestor of Eumetazoa was similar to an adult sponge. This project will use, for the first time, a combined phylogenomic, bioinformatic and palaeontological approach aiming to resolve phylogenetic incongruences at the base of the metazoan tree and firmly date cladogeneses and first appearances of poriferan clades. The main responsibilities of the successful candidate will be 1) to construct cDNA libraries of major poriferan lineages and prepare for large scale EST sequencing; 2) to work towards a multi-marker molecular phylogeny of main poriferan lineages; 3) to carry out

phylogenomic analyses of EST- and genome sequences. This project will be carried out in close collaboration with Prof. Morgenstern (Bioinformatics) and Prof. Reitner (Precambrian/Cambrian diploblast fossil record).

We are seeking a highly motivated applicant with excellent molecular- phylogenetic skills, both in the lab and in silico, demonstrated by an above-average MSc (or equivalent, e.g. German Diplom”) degree in a related field.

The successful candidate will join a young and dynamic lab focussing on micro- and macroevolution in marine invertebrates. More information about the lab can be found at www.geobiology.nu . The opportunity to enrol in the new PhD study course Biodiversity and Ecology“ will be given.

Requirements: Degree in Biology (MA, MSc, or equivalent degree); very good and demonstrated knowledge of molecular lab techniques and understanding of molecular evolution including methods to infer molecular phylogenies and state-of-the art computer programs for such analyses; excellent English language skills. Good working knowledge of UNIX/LINUX and Perl or Python strongly desirable.

Deadline for applications: 01 October 2005. The position is available for 2 years and will be paid according to the German BATIIa salary scheme (part time).

Application: Send application including letter of intent, CV, PDF’s of publications (if available), and details of 2 referees as PDF (only) by email or snail mail to Gert Wörheide (gert.woerheide@geo.uni-goettingen.de). Only applications stating the keyword ”DEEP-PORI“ will be accepted.

The Department of Geobiology of the Geoscience Centre of the University of Göttingen offers an excellent multidisciplinary research environment, its particular strength being due to the close interaction between Geosciences, the Göttingen Centre for Biodiversity and Ecology and the Biological Faculty including Bioinformatics. More information about the department at www.geobiologie.uni-goettingen.de.

The University of Göttingen is an equal opportunity employer. Women and members of minority groups including disabled persons are strongly encouraged to apply.

Gert Wörheide Junior Professor for Geobiology Geoscience Centre Göttingen Dept. of Geobiology Goldschmidtstr.3 37077 Göttingen, Germany

Centre for Biodiversity and Ecology University of Göttingen

phone: +49-(0)551 39 14 177 mobile: +49-(0)178 537

22 33 fax: +49-(0)551-39 79 18

gert.woerheide@geo.uni-goettingen.de

www.geobiology.nu www.geobiologie.uni-goettingen.de

MasseyU CloverEvol

PhD Scholarship - Massey University, New Zealand

A Bright Futures Enterprise/AgResearch Scholarship (value NZ\$25,000 p.a.) is available for an Australian/New Zealand citizen to undertake a PhD at Massey University in Palmerston North, under the joint supervision of Dr. Nick Ellison (AgResearch) and Assoc. Prof Peter Lockhart (Allan Wilson Centre for Molecular Ecology and Evolution, Massey University). The successful candidate will undertake a project that seeks to identify historical ethnobotanical trade routes, the ancestral centre of genetic diversity and biogeographic origin of white clover. The study will involve phylogenetic and population genetic analyses of nuclear and chloroplast molecular markers in accessions representing both landraces and wild populations selected on the basis of geographical location and environmental conditions of individual collection sites. The successful applicant will have a strong undergraduate background in molecular genetics, population genetics/phylogenetic analysis.

Enquires can be made to: Susan Wight (Executive Officer AWCME) email: s.m.wright@massey.ac.nz <http://awcmee.massey.ac.nz> -

Susan Wright Executive Officer Allan Wilson Centre for Molecular Ecology and Evolution Massey University Private Bag 11-222 Palmerston North Tel: +64 6 350 5448 New Zealand Fax: +64 6 350 5626

<http://AWCMEE.massey.ac.nz>

s.m.wright@massey.ac.nz

MaxPlanckInstCologne PlantBreeding

PhD: Evolution of gene regulation in Cologne, Germany

A PhD position is available at the Max Planck Institute for Plant Breeding Research in Cologne, Germany;

starting in October 2005 to join a newly funded group in the department of Genetics and Plant Breeding (dir. Prof. Maarten Koornneef).

Applicants with interest in a combination of evolutionary biology and molecular studies of diversity are invited to apply. A background in plant biology and/or gene regulation is not a prerequisite.

Our group is interested in evaluating the role played by cis-regulatory regions in adaptive evolution. For this, we are studying the evolutionary dynamics of functional non-coding regions within and among closely related species of the Arabidopsis genus. Our ultimate goal is to relate this diversity to its ecological role in natural environments. Cis-regulatory evolution remains largely unexplored and there is plenty of room for investigating novel evolutionary concepts and ideas. Take the chance to step into this exciting research area !

The successful applicant will examine whether or not the history of functional cis-regulatory differences is associated to adaptive evolution. For this, he/she will examine three closely related Arabidopsis species that differ substantially in their life history and ecology : Arabidopsis thaliana, A. halleri and A. lyrata. He/She will focus on genes involved in the regulation and production of flavonoids, which are plant secondary metabolites involved in plant-environment interactions, and as such likely to play a role in adaptive evolution. First, he/she will identify interspecific cis-regulatory changes that are relevant for phenotypic evolution. Subsequently he/she will investigate how these cis-regulatory regions vary within and among species at both nucleotide and functional levels, with the double goal of characterizing the genetic basis of promoter functional changes and reconstructing their recent evolutionary fate.

The Max Planck Institute offers an outstanding environment for carrying out ambitious and innovative research. The Department of Genetics and Plant Breeding brings together plant molecular biologists, quantitative geneticists and evolutionary biologists to investigate the causes and consequences of plant natural variation. The Institute benefits from a superb interdisciplinary scientific community, with world class molecular biology being performed and active contacts with outstanding evolutionary geneticists located in the nearby University of Cologne.

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

tional Airport. Low cost air companies operate at the local airport (Köln-Bonn) and can take you anywhere in Europe in a couple of hours.

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

! New address !

Juliette de Meaux Group Leader

Max Planck Institute for Plant Breeding Research Carl-
von-Linné Weg 10 50829 Cologne

Tel: +49 (0) 221 50 62 465 e-mail:
<<mailto:demeaux@mpiz-koeln.mpg.de>>
demeaux@mpiz-koeln.mpg.de

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

NCStateU QuantitativeTraits

Department of Genetics at North Carolina State University

Research Training Program in the Genetic Architecture of Quantitative Traits

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

Quantitative, or complex, traits are affected by multiple interacting genes, each of which have small effects and are sensitive to the environment. Understanding the molecular nature of genetic variation for quantitative traits will have an enormous impact on medicine, livestock and crop breeding, and the study of evolution. For over half a century North Carolina State University has been a leading center for research in quantitative genetics. To enable future scientists to advance our understanding of the genetic architecture of quantitative traits, we offer a research and training program that in-

tegrates quantitative, population, molecular and developmental genetics, statistics and molecular evolution.

Our program offers:

* \$20,772 stipend with tuition and health insurance * Travel allowance and research funds * State-of-the-art research facilities * Internationally recognized faculty with expertise in theoretical and experimental quantitative genetics * A stimulating academic environment near the University of North Carolina at Chapel Hill, Duke University and the Research Triangle Park * A beautiful and affordable location with a pleasant climate between the beaches and the Appalachian mountains

US citizens and permanent residents are eligible for Fellowships. The Department of Genetics is strongly committed to promoting diversity in the scientific community and encourages applications from individuals of historically under-represented minority groups.

Training Faculty

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

Robert Anholt: Molecular and quantitative genetics of olfaction.

William Atchley: Developmental quantitative genetics and molecular evolution.

Philip Awadalla: Coalescent estimates and the evolutionary significance of recombination.

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

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

Gregory Gibson: Molecular and quantitative variation in developmental pathways in Drosophila.

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

Patrick Hurban: Elucidation of biological networks.

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

James Mahaffey: Drosophila developmental genetics.

Trudy Mackay: Molecular quantitative genetics in Drosophila.

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

Michael Purugganan: Molecular genetics of morpholog-

ical evolution in plants.

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

Jeffrey Thorne: Statistical methods for analysis of sequence data.

Bruce Weir: Statistical methods for characterization of population structure, detecting human disease genes and individual identification.

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

For information and application materials, contact:

Director of Graduate Programs Department of Genetics North Carolina State University Raleigh, NC 27695-7614 Telephone: 919-515-2292 <http://www.cals.ncsu.edu/genetics/> Julie Pederson <jdpeders@unity.ncsu.edu>

OxfordU SequenceAnalysis

Marie Curie PhD studentship, Oxford University, Department of Zoology

A PhD studentship is being offered for the upcoming academic year (beginning October 2005) in the Department of Zoology, Oxford University. Candidates interested in analysing gene sequences using computational techniques are encouraged to apply. The topic of the project is flexible, however projects addressing evolution in serially sampled populations (e.g. infectious disease) are especially encouraged.

Due to residency restrictions, only non-UK EU residents will be considered.

Anyone interested in applying should contact Beth Shapiro (beth.shapiro@zoo.ox.ac.uk) or Andrew Rambaut (andrew.rambaut@zoo.ox.ac.uk)

Dr. B. Shapiro Henry Wellcome Ancient Biomolecules Centre Research Fellow, Laboratory for Viral Evolution Oxford University, Depts. of Zoology and Statistics Oxford, OX1 3PS, UK +44 (0) 1865 271272 <http://evolve.zoo.ox.ac.uk>

Trondheim EvoBiol

*Norwegian University of Science and Technology (NTNU)** Faculty of natural science and technology ? Department of Biology

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* *

PhD position in evolutionary biology/behavioural ecology

* *

*The Department of Biology, *Norwegian University of Science and Technology (NTNU) announces a vacant PhD fellowship on the program ?Effects of captive breeding on genetic variation and life history traits?. Applications are invited for a 3-year PhD position, possibly 4 years, with Prof. Gunilla Rosenqvist and Dr. Christophe Pélabon at the Department of Biology.

Applicants are obliged to engage on an organised PhD training program, and appointment requires approval of the applicant's plan for a PhD (dr.scient) study. A contract regarding the period of appointment and the obligations of the PhD fellow must be signed by the Fellow and the University. The Department has 36 members of faculty (professors and associate professors) and about 70 PhD students and post docs. The department incorporates research programs in cell biology, molecular biology, plant and animal physiology and ecophysiology, ethology, evolutionary biology, population genetics, aquatic and terrestrial ecology, biodiversity, aquaculture, and marine biology, with considerable collaboration between the disciplines. More information about the Department of Biology can be found at: <http://www.bio.ntnu.no/> This PhD project is integrated within a larger research program that aims to estimate the effects of different captive breeding programs on genetic variation and life history traits using the guppy (*Poecilia reticulata*) as a model. The project takes advantage of a breeding program conducted now for nine generations with different breeding designs in terms of degrees of polygyny. Genetic variance at the molecular level and on quantitative traits will be estimated and compared between the different treatments. Life history and behavioural traits will also be analyzed and compared between the captive and wild fish. These results will be used to test predictions from theoretical models on the loss of genetic variation with drift. The proposed research project is likely to involve international as well as Norwegian collaborative work.

Applicants should have the minimum qualification of internationally recognized masters degree (or the equivalent, e.g. UK honours degree). Applicants should have a background from behavioural ecology, preferably relating to evolutionary biology and/or life history the-

ory. Some knowledge in molecular biology is also an advantage.

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The appointment of the PhD fellow will be made according to national guidelines for appointment of PhD fellows at universities and university colleges.

The appointment will be made according to the general regulations regarding university employees. The government work force of Norway should reflect the diversity of the population, and this is an 'Equal Opportunities position'. The annual salary of the PhD position is NOK 292.000,- per year (code 1017, level 39 according to the government pay-scale for university employees). There is 2% deduction for superannuation.

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For a detailed project description and further information about this PhD position, please contact Professor Gunilla Rosenqvist (phone: +47 73 59 62 96; fax: +47 735 913 09; email: gunilla.rosenqvist@bio.ntnu.no <<mailto:gunilla.rosenqvist@bio.ntnu.no>>), or Dr. Pélabon (phone: +47 73 59 62 82; fax: +47 73 59 13 09; email: christophe.pelabon@bio.ntnu.no <<mailto:christophe.pelabon@bio.ntnu.no>>). Further information about the Department can be obtained at: <http://www.bio.ntnu.no/eng/> //

The application should include information of education, exams and relevant experience. Certified copies of certificates and other documents should be enclosed. The application should include information on why the applicant considers him- or herself specifically suited for the fellowship. Theses, publications and all other scientific material that the applicant wants to be considered should be enclosed. Multi* *-authored publications will be considered but, in cases where the impact of the applicant on the publication is not evident, a brief description of the role of the applicant in the work should be enclosed.

Within the application deadline, applicants should submit in 3 copies:

- the application (in English)
- a CV (in English)
- certified copies of certificates of education and other relevant documents
- three referees with e-mail addresses and phone number.

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Applications should be sent to* *Faculty of natural science and technology Norwegian University of Science

and Technology, 7491 Trondheim, Norway. Reference number: NT-50/05. Application deadline: 21 October 2005.

> >

Christophe Pelabon <christophe.pelabon@bio.ntnu.no>

UAlberta EvolGenomics

Graduate Student Research Opportunities at the University of Alberta.

I am seeking highly motivated students interested in pursuing graduate study at either the MSc or Phd level in the fields of Molecular Ecology and Ecological Genomics in the Department of Biological Sciences at the University of Alberta (<http://www.biology.ualberta.ca/programs/-graduate/prospective/>) to start in Sept 2006. Research in my lab is focussed on studying the maintenance and adaptive significance of molecular and quantitative genetic variation in wild populations using molecular markers such as microsatellites and SNPs as primary tools.

Projects

Research projects typically involve close collaboration with field biologists and ecologists. The following are some potential topics that could form the basis of graduate student project work, but I would also encourage potential applicants to suggest other ideas.

- Phylogeography and population structure of North American mountain goats
- Genetic analysis of maternal performance and condition in marine mammals
- Landscape genetic risk assessment of CWD transmission in wild cervids

The Department of Biological Sciences has a core lab fully equipped for molecular genetic analyses with state-of-the-art automated DNA sequencing apparatus (<http://www.biology.ualberta.ca/facilities/>).

Funding and Application details:

Potential applicants (see Admission Requirements via <http://www.biology.ualberta.ca/programs/-graduate/prospective/>) are encouraged to contact me directly to discuss their interests and suitability (d.coltman@sheffield.ac.uk). A variety of sources of funding for some international (U.S., U.K, Australia or New Zealand) as well as Canadian students with high academic standing are available (follow links on

<http://www.biology.ualberta.ca/programs/graduate/-prospective>).

Completed applications requiring funding should be submitted to the department no later than March 1, 2006*

Please also note that students holding an NSERC PGS are also entitled to the Walter H. Johns Graduate Fellowship, which covers tuition and fees, plus approximately \$700 each year that recipient holds the NSERC. The current approximate value/year is \$4,622. They also receive a Faculty of Science Graduate Entrance Scholarship worth \$2,000 in Year 1.

Contact details

Dr. David W. Coltman Associate Professor Department of Biological Sciences CW 405, Biological Sciences Centre University of Alberta Edmonton, Alberta Canada T6G 2E9 David.coltman@ualberta.ca 780-492-7255

ULausanne PopGenet

A postdoctoral position (2.5 years) and a PhD studentship (4 years) are available at the department of Ecology and Evolution in my group (<http://www.unil.ch/dee/page6764.html> and <http://www.unil.ch/dee/page6764.html>) to investigate the consequences of non additive gene actions on the evolutionary potential of species. The successful candidates will develop an individual based model to simulate the evolution of populations anchored to realistic landscapes. At the same time, statistical methods to analyse the data will be developed. The type of questions that will be addressed are -What type of relation is expected between differentiation at molecular markers and that obtained from traits with different genetic architectures? -How do these traits react to demographic bottlenecks? Under various mating systems, how well do genetic markers estimate pedigree inbreeding and relatedness?

Candidates should be theoretically minded biologists, with a solid background in mathematics, statistics and computing. Fluency in C/C++ as well as S is a plus. The PhD studentship will involve some teaching, some of which is in french.

The University of Lausanne (<http://www.unil.ch/central/page2192.en.html>) provides excellent facilities, a lively intellectual and social environment and is beau-

tifully located in Switzerland at the shore of Lake Geneva.

To apply for the position or for more information, please contact me (jerome.goudet@unil.ch). The positions will stay opened until filled

- Prof. Jerome GOUDET Dep. Ecology & Evolution, Biophore, quartier Sorges Uni. Lausanne , CH-1015 Lausanne Switzerland <http://www.unil.ch/dee> <http://www.unil.ch/popgen> Tel: +41 21 692 42 42 Fax: +41 21 692 42 65 Secr:+41 21 692 42 60

jerome.goudet@unil.ch jerome.goudet@unil.ch

UVienna StatisticalGenetics

Research Positions in Statistical Genetics

Applications from highly qualified candidates are invited for two research positions (one at Ph.D. and one at Post-Doc level) at the University of Vienna. Two year contracts are offered for both positions.

The successful candidates will be part of the research project Mathematics and Evolution: Mathematical and Statistical Analysis of Ecological and Genetic Diversity, aiming at a close interaction between mathematics, statistics, and evolutionary genetics and ecology. (Associated researches are: Reinhard Bürger, Ulf Dieckmann, Andreas Futschik, Christian Schlötterer.) Upon appointment, the applicants are expected to participate in the development and evaluation of statistical methods for genomic approaches aiming at the identification of selected genomic regions (hitchhiking mapping).

Qualifications:

Ph.D. position: A master degree either in statistics, or in mathematics, or in evolutionary genetics; high motivation for interdisciplinary research on the development and evaluation of statistical methodology for population genetic problems. Strong background in computer programming.

Post-Doc position: A doctorate and some research experience in one of the above mentioned fields; interest in statistics and population genetics; research experience documented by publications is desirable.

The starting date of the contract is negotiable and should be between January and July 2006. The salary follows the university scheme for researchers at the respective levels of qualification. For a Ph.D. position, this is about 27.600 Euros per year (before taxes and so-

cial insurance), for a Post-Doc, it is about Euro 45.800 Euros (before taxes and social insurance).

Applicants should send a statement of research interest including possible starting dates, a curriculum vitae including publications, and two reference letters either by mail or by e-mail to:

Dr. Andreas Futschik Dept. of Statistics University of Vienna Universitaetsstr. 5/9, A-1010 Vienna Austria
e-mail: andreas.futschik@univie.ac.at

The search will continue until both positions are filled.

UZurich EvolEcol

PhD position in Evolutionary Ecology

Clonal diversity, genotypic interactions and coevolution in asexual antagonists

A 3-year PhD project is available from December 1st 2005 in the Ecology group of the Institute of Zoology at the University of Zürich, Switzerland. The position is funded by the Swiss National Science Foundation. The project will exploit the unusual but natural situation of clonal hosts (aphids) being attacked by clonal parasitoids (thelytokous wasps) to powerfully test for genotype-specificity in host-parasitoid interactions and to elucidate the role of parasitoids in maintaining host genotypic diversity. This work will combine extensive field sampling with population genetic analyses and laboratory experiments.

I seek a highly motivated candidate with a strong interest in evolutionary ecology and genetics. Experience with molecular methods is an asset. If interested, please send your application before 30 September 2005 by e-mail (preferred) or snail mail to the address below. Applications should include a CV, a statement of research interests and experience, as well as the names and e-mail addresses of two references who could be contacted.

Christoph Vorburger Institute of Zoology University of Zürich Winterthurerstrasse 190 8057 Zürich Switzerland Tel: +41 44 635 49 83 Fax: +41 44 635 68 21 e-mail: christoph.vorburger@zool.unizh.ch
<http://www.zool.unizh.ch/static/ecology/people/cvorburger/>

UZurich EvolGenetics Orangutans

A three-year Ph.D. position is available from January 1, 2006 at the Anthropological Institute and Museum at the University of Zurich, Switzerland. The project will involve population genetics, phylogeography, as well as paternity and relatedness analyses. The position is for three years, beginning in January 2006. The remuneration package is very competitive with a salary of about 42200 Swiss Franks per annum. A Masters degree (or equivalent) is a prerequisite for acceptance into the Ph.D. program at the University of Zurich.

The genetics group in the Anthropological Institute focuses on evolutionary genetics of primates, in particular great apes, but also other large-brained mammals. In particular, we are interested in male cooperation and reproductive strategies, as well as the nature of cultural behaviour. Using modern DNA techniques, our current work focuses on genetic relationships among cooperating individuals, quantifying reproductive success, and linking social correlates with population genetic and phylogeographic patterns.

Another major interest is the nature and transmission of culture in both primates and cetaceans. Studying the convergent evolution of culture in both terrestrial and marine habitats will help to understand what have led to the rise of human culture.

The successful candidate is expected to work at least 10 hours a week on other projects in the Institute.

Interested candidates should submit a Curriculum vitae and statement of research interests, along with a list of two references, by email or post to the address given below by October 15, 2005. Any questions on the position should be directed to Dr. Michael Krützen (michael.krutzen@aim.unizh.ch).

Dr. Michael Krützen Anthropological Institute and Museum University of Zurich Winterthurerstr. 190 CH-8057 Zurich / Switzerland Phone: + 41 44 63 55412 Facsimile: +41 44 635 6804 michael.krutzen@aim.unizh.ch
michael.krutzen@aim.unizh.ch

UppsalaU AnimalEvolEcol

Postgraduate (PhD) position (“doktorandtjänst”) in Animal Ecology

The Department of Ecology and Evolution at the University of Uppsala seeks a PhD candidate for the project “The evolution of ornaments in *Sabethes* mosquitoes”.

Male-female coevolution of reproductive behavior, morphology and physiology is well documented in many taxa. Yet, the evolutionary processes responsible for such concerted evolution is poorly understood in most cases, and this is particularly true for the evolution of costly ornaments. In the current project, neotropical mosquitoes of the genus *Sabethes* will be used as a model system. The aquatic larvae of these insects are inconspicuous but the adults are iridescent and wear colorful ornaments on their mid-legs. The aim of this PhD project is to assess sexual selection on, and constraints on the evolution of, ornaments in this group of insects. The candidate will use a variety of different methods, such as manipulative behavioral studies and artificial selection experiments on laboratory populations of these mosquitoes as well as comparative studies and field work.

The successful candidate should have a MSc (or equivalent) in biology/ecology and a strong interest in evolutionary biology and behavioral ecology. The candidate will join a collaborative research group, currently consisting of 3 other PhD students, 3 post-doctoral associates and one senior scientist (Göran Arnqvist). The latter will function as a supervisor (see <http://www.ebc.uu.se/zooeko/GoranA/GA.html>) and the candidate will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (see http://www.ebc.uu.se/-index_eng.htm). This position is financed by the Swedish Research Council and is for four full years, and the successful candidate will receive a postgraduate fellowship the first year (14.400 SEK/month) and a postgraduate position year 2-4 (18.700 - 20.900 SEK/month).

Applications should include (1) personal information/background, (2) complete CV (3) a description of undergraduate training, (4) an authorized copy of the undergraduate degree and (5) the names and email addresses of two-three referees. Applications should be sent to Göran Arnqvist, Dept. of Animal Ecology,

EBC, Norbyvägen 18D, University of Uppsala, SE-752 36 Uppsala, Sweden. Please feel free to contact Göran Arnqvist by email (Goran.Arnqvist@ebc.uu.se) or by phone (+46-18-4712645) for more information. Closing date for applications is October 28, 2005, and tentative starting date is January 1, 2006.

Associate Professor Göran Arnqvist Animal Ecology Department of Ecology and Evolution Evolutionary Biology Centre University of Uppsala Norbyvägen 18d SE - 752 36 Uppsala Sweden

Email: Goran.Arnqvist@ebc.uu.se Phone: +46-18-471 2645 Fax: +46-18-471 6484 New! Homepage with complete PDF downloads and more at: <http://www.ebc.uu.se/zooeko/GoranA/GA.html>
goran.arnqvist@ebc.uu.se goran.arnqvist@ebc.uu.se

UppsalaU EvolEcolGenetics

A Ph.D. student position in Evolutionary/ Ecological Genetics is available in the Department of Evolutionary Biology at the Evolutionary Biology Centre, Uppsala University, with Jennifer Leonard.

The research group uses genetic markers to study changes in late Pleistocene megafaunal populations associated with environmental changes, historic changes in wild populations due to human impact, ancient and recent domestic dogs in America as a proxy for ancient humans, and modern phylogeography of widespread mammals. There will be considerable opportunity for the student to develop their own interests related to the expertise of the group.

The Evolutionary Biology Centre (www.ebc.uu.se) is situated in recently-built localities in central Uppsala and is equipped with facilities for large-scale sequencing, genotyping and expression analysis. The working atmosphere is international with a regular recruitment of post-docs from abroad. The Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, housing some 400 scientists and graduate students, with research programs in ecology, population biology, paleontology, systematics, genetics, genomics, functional genomics and developmental biology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated close to Stockholm.

Prospective students should possess a B.S., B.A. or

M.S. degree and should be highly motivated, independent, have good organizational and lab skills, and be able to communicate (both written and verbal) in English. The research project will involve the study of genetic changes through time in natural populations by employing ancient DNA techniques. Previous experience with ancient DNA is not required. The precise project is flexible and will depend on the interests and skills of the successful candidate.

More information about the department is available at: <http://www.egs.uu.se/evbiol/index.html> For more

information, please contact Jennifer Leonard at Jennifer.Leonard@ebc.uu.se

To apply, please send (1) a letter stating your interests, (2) a c.v., and (3) a list of potential references to: Jennifer.Leonard@ebc.uu.se – Jennifer Leonard Department of Evolutionary Biology Uppsala University Norbyvägen 18D SE-752 36 Uppsala (Sweden) Tel. +46-18-471 6462 ***NOTE CHANGE***** Fax. +46-18-471 6310 Jennifer.Leonard@ebc.uu.se <http://www.egs.uu.se/evbiol/Persons/Jennifer.html> <http://www.egs.uu.se/evbiol/Persons/Jennifer.html>

Jobs

BarnardCollege EvolMolCellDev	21	UCLA EvolBiology	33
Bogota TropicalParasitology	21	UCincinnati MolGenetics	33
CedarCrestCollege EvolutionaryCellBiol	21	UFlorida ChairAnthro	34
HarvardU ResTech FungalEvol	22	UFlorida PlantPopGenetics	34
HumboldtStateU Bioinformatics	22	UGeorgia 2 MolEvol Theory	35
HunterCollege EvolAnthropology	23	UGeorgia EvolBiol	35
IndianaU DaphniaGenomics	23	UGeorgia PlantSystematics	36
InstZoology London ResTech	24	UHouston 2 EvolBiol	36
IowaStateU MicrobialEvolEcol	24	UHull EvolPopGenetics	36
KansasStateU EcologicalGenomics	25	UIdaho EvolBiol	37
KentStateU EvolBiol	25	UIdaho FishEvolBiol	37
LaTrobeU EvolGenetics	26	UIllinois LabTech	38
MBL WoodsHole CompBiol	26	ULiverpool EvolBiol	38
MBL WoodsHole GeneExpression	27	UMemphis ChairBiol	39
McMasterU ComputBiology	27	UMinnesota OrganismalBiologist	39
MississippiStateU PlantSystematics	28	UNewMexico EvolAvianBiol	40
NortherArizonaU PathogenEvol	28	UTennessee TheoEvol	40
PurdueU QuantEcol	29	UTexasArlington 4 EvolBiol	41
RanchoSantaAna BotanicGarden Director	29	UToronto GenomicsPopGenetics	42
TexasStateU BiologyChair	30	UTuebingen TheoBiol	42
UAlabama EvoDevo	31	UWyoming EcolGenetics	42
UAlbany EvolAnthro	32	WashingtonStateU ComputBiol	43
UAlberta EvolBiol	32	WesternWashingtonU EvolutionaryBotany	44
UArizona 2 MicrobialEvol	32		
UCDavis Bioinformatics	33		

Tenure-Track Assistant Professor of Biological Sciences

The Department of Biological Sciences at Barnard College, Columbia University, seeks a full-time, tenure-track Assistant Professor (starting August 2006) to participate in undergraduate teaching and engage in an active, funded research program. The successful applicant will use laboratory techniques to investigate molecular processes, preferably in a microbial, invertebrate, or cultured cell system. Before applying, please see www.barnard.edu/biology/mcddbjob.htm. Teaching responsibilities include participation in the Introductory Biology sequence and advanced lecture and laboratory courses in Molecular Biology. Ph.D. and postdoctoral experience is required; teaching experience is desirable.

Applicants should send cv, research and teaching statements, three representative publications and three letters of recommendation to: Molecular, Cellular, Developmental Biology Search Committee, Dept. Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027 (e-mail: ljohnson@barnard.edu). Review of applications will begin October 15. Barnard College is an Equal Opportunity Employer. Women and members of under-represented minorities are encouraged to apply.

– Kristen Shepard

Assistant Professor Barnard College Department of Biological Sciences 1205 Altschul Hall 3009 Broadway New York, NY 10027

Phone: 212-854-2731 Fax: 212-854-1950

Bogota TropicalParasitology

Parasitólogo Tropical/Entomólogo (fecha de cierre corregida)

El Departamento de Ciencias Biológicas, Universidad de los Andes (Bogotá, Colombia) requiere profesor/investigador de planta de tiempo completo en Parasitología Tropical con énfasis en Entomología. Los aspirantes deben poseer título de Ph.D., preferiblemente con experiencia posdoctoral, así como en docencia e investigación, y disposición a proponer y gestionar proyectos de investigación en el campo de la parasitología. Son especialmente bienvenidos candidatos con experiencia previa en biología y genética poblacional de parásitos e insectos vectores del neotrópico y el desarrollo de investigación operativa en este campo.

Se espera del candidato seleccionado que interactúe como profesor y orientador de estudiantes de pre y postgrado del Departamento de Ciencias Biológicas. Enviar hoja de vida, copia de publicaciones, una breve descripción del programa de investigación y docencia, y dos cartas de recomendación antes del 21 de NOVIEMBRE del año 2005 a:

Comité de Contrataciones Profesorales Atención: Svetlana de Arteaga <svde@uniandes.edu.co> Departamento de Ciencias Biológicas Universidad de Los Andes Carrera 1 No. 18A-70 Apartado Aéreo 4976 Bogotá, Colombia

Tropical Parasitologist/Entomologist (closing date corrected)

The Department of Biological Sciences, Universidad de los Andes (Bogotá, Colombia), seeks to fill a position in Tropical Parasitology with emphasis on Entomology. The applicants must possess a Ph. D. title, preferably with postdoctoral experience, as well as in teaching and research, and disposition to propose and manage research projects in the field of the Parasitology. It is desirable that the applicants have previous experience in biology and population genetics of parasites and tropical insects vectors, and the development of operational research in this field.

It is expected that the chosen candidate to interact as teacher and adviser of undergraduate and postgraduate students of our Department. Send curriculum vitae, copies of recent publications, a brief description of research and teaching program, and two letters of recommendation before NOVEMBER 21, 2005 to:

Faculty Search Committee Attention: Svetlana de Arteaga <svde@uniandes.edu.co> Departamento de Ciencias Biológicas Universidad de Los Andes Carrera 1 No. 18A-70 P.O.Box 4976 Bogotá, Colombia

samadrin@uniandes.edu.co

CedarCrestCollege EvolutionaryCellBiol

Tenure-Track Assistant Professor of Biology

Cedar Crest College seeks a cell biologist using molecular approaches, with expertise in physiology, development, or a related area, for a tenure-track Assistant Professor position beginning Fall, 2006. Responsibilities include core courses, upper level courses in cell

and molecular biology, and development of an active research program involving undergraduates.

The successful candidate will join the Department of Biological Sciences, comprised of 10 full-time faculty, with programs in Biology, Genetic Engineering, Biodiversity & Conservation Biology, Bioinformatics, Neuroscience, and Nuclear Medicine Technology. Outstanding facilities include confocal and fluorescence microscopes, DNA sequencers, cell culture facilities, and a biological computing laboratory. Details are available at: <http://www.cedarcrest.edu/biology> Ph.D. required; postdoctoral experience preferred. Please submit CV, statements of teaching philosophy and research plans, and three letters of reference. Supplemental materials supporting teaching and research qualifications are welcome. Apply to: Dr. Kent Fitzgerald, Chair, Department of Biological Sciences, Cedar Crest College, 100 College Drive, Allentown, PA 18104. Applications must be received by October 31, 2005 to ensure full consideration. Responses will be sent only to those under consideration. EOE.

Richard M. Kliman Associate Professor Dept. of Biological Sciences Cedar Crest College 100 College Drive Allentown, PA 18104 (610) 606-4666, ext. 3501 rmkliman@cedarcrest.edu www2.cedarcrest.edu/academic/bio/rkliman

HarvardU ResTech FungalEvol

TECHNICIAN PRINGLE LABORATORY ECOLOGICAL GENETICS/MYCOLOGY HARVARD UNIVERSITY CAMBRIDGE, MA USA

The Pringle laboratory is looking for a full-time lab manager/research technician. The lab studies the ecology and evolution of fungi, and is broadly interested in ecological genetics, mutualism, and community ecology, including experiments directed at understanding cooperative associations between fungi and plants, individuality in filamentous fungi, and senescence in a variety of species. Applicants must be genuinely fascinated by basic research. The laboratory is housed at Harvard University in Cambridge, MA, a vibrant intellectual community near myriad cultural resources. The technician will work under the direct supervision of the PI (Anne Pringle) and will assist in ongoing research and be responsible for general lab maintenance. Research will involve a variety of experiments related to the interests described above. Lab management will include the

purchase of lab supplies and equipment, maintenance of commonly used lab stocks, upkeep of fungal cultures, and general paperwork related to university protocols, e.g. inventory of chemicals. This position requires an independent, organized, and motivated individual with demonstrated skills and experience in molecular techniques. Applicants should have at minimum knowledge of DNA extraction protocols, PCR, gel electrophoresis, cloning of PCR products, and sequencing. Analytical skills should include PCR primer design, DNA sequence alignment, and basic phylogenetics. Experience with website creation and maintenance would be a plus. As the lab is recently established much of the initial work will involve equipment set up and creation of lab protocols. Above all, I am looking for someone who is personable, motivated and enthusiastic about working in a group environment.

Information about the Pringle laboratory can be found at <http://www.oeb.harvard.edu/faculty/pringle/> Informal inquiries can be directed to Anne Pringle at pringle@oeb.harvard.edu.

Formal applications should be made online through the Harvard University Employment Database: <<http://atwork.harvard.edu/employment/jobs/>><http://atwork.harvard.edu/employment/jobs/> Enter Requisition #24159. Please send a letter describing your research interests and experience, a resume, and contact information for three references.

Applications will be reviewed beginning September 19, 2005 and will be accepted until a suitable candidate is found.

Harvard University is an equal opportunity, affirmative action, non-smoking workplace.

–
Anne Pringle, Ph.D. Assistant Professor Organismic and Evolutionary Biology Harvard University 16 Divinity Avenue Cambridge, MA 02138 USA

pringle@oeb.harvard.edu (617) 496-9707

For packages (including FedEx) please add my room number: BioLabs 3103. For packages (including FedEx) please add my room number: BioLabs 3103.

HumboldtStateU Bioinformatics

Tenure-Track Faculty Position in MOLECULAR BI-

MOLECULAR BIOLOGY/BIOINFORMATICS (HHMI Supported)

Humboldt State University, Department of Biological Science is seeking applicants for an HHMI supported full-time tenure-track position at the Assistant Professor level with expertise in MOLECULAR BIOLOGY and BIOINFORMATICS to begin in fall 2007. Applicants must have a Ph.D. with postdoctoral or equivalent experience preferred, a strong background in molecular biology and the use of bioinformatics tools to solve biological problems. The successful candidate will be expected to develop an active, externally funded, research program involving undergraduate and master's level students and be committed to excellence in teaching at both levels. The successful candidate will be expected to teach courses in molecular biology & genetics and bioinformatics and to contribute to our inquiry-based lower-division core courses. For details please visit <http://www.humboldt.edu/~biosci/>. Send a curriculum vitae, a statement of research plans, three related publications, a three-part statement of teaching including philosophy, experience (especially with non-traditional pedagogy), and preferences for upper-division elective courses, and have three letters of recommendation sent to Chair, Bioinformatics search committee, Department of Biological Sciences, Humboldt State University, Arcata, CA 95521. Closing date: 7 November 2005. Humboldt State University is an Affirmative Action/Equal Opportunity employer.

– Dr. Brian S. Arbogast Department of Biological Sciences Humboldt State University Arcata, CA 95521

Phone: 707 826 4180 Fax: 707 826 3201
Web: www.humboldt.edu/~bsa2 Brian Arbogast
<bsa2@humboldt.edu>

HunterCollege EvoAnthropology

HunterCollege.BioAnthro

Position Vacancy Notice

Hunter College seeks candidates for an appointment to a tenure track position in physical anthropology effective 01 Sept. 2006. We seek an Assistant Professor, but are authorized to consider appointment at a higher rank, including Professor, for a truly exceptional individual. We seek candidates with an emphasis on hominid paleoanthropology. Subspecialities of interest include (but are not limited to) morphology, development, and life history from an explicitly evolutionary

perspective. Candidates must have a strong and active research and publication program, including field and/or laboratory components. The Ph.D. is required at the time of appointment.

Send CV, personal statement and the names of 3 references to Gregory A. Johnson, Chair, Department of Anthropology, Hunter College CUNY, 695 Park Avenue, New York, NY 10021-5085 U.S.A., or by email to gjohnson@hunter.cuny.edu <<mailto:gjohnson@hunter.cuny.edu>>. Applications should be received by 01 Jan. 2006 to receive full consideration. Visit the department on the Web at <http://maxweber.hunter.cuny.edu/anthro/> Hunter College is an Affirmative Action / Equal Opportunity / Americans with Disabilities Act / Immigration Reform and Control Act employer. Women and members of traditionally disadvantaged populations are especially encouraged to apply.

–
“Michael E. Steiper” <msteiper@hunter.cuny.edu>

IndianaU DaphniaGenomics

The Center for Genomics and Bioinformatics (CGB Indiana University, Bloomington) carries out research in genomics, bioinformatics and is a principle laboratory of the Daphnia Genomics Project. This project creates genomic resources for a developing model organism in ecological and evolutionary genomics research. These resources include a 9-fold sequence coverage of the genome that was produced by the U.S. Department of Energys Joint Genome Institute in collaboration with the Daphnia Genomics Consortium. As a result, Daphnia will soon have the best characterized genome among Crustacea and will ultimately be used to address issues relating to the genome structure of the arthropods.

The CGB has an immediate opening for a Research Fellow to help create and implement algorithms that will rigorously test and help improve the assembly of the genome sequence. The research fellow will also participate in the exploration and interpretation of the data. This position is initially funded for one year and is ideal for investigators who have recently completed their graduate studies in the field of computer science / bioinformatics, or who are in the final stages of completing their dissertations. However, all candidates with expertise in computer programming and prior experience

with genome sequencing projects are encouraged to apply, including visiting scientists. We offer a competitive salary (\$57,000 plus benefits) and access to state of the art facilities.

Specifically, this project aims to improve the assembly of the *Daphnia* genome by developing two computational methods for detecting misassembled regions, one based on pattern statistics and another based on clone coverage statistics. These independent algorithms are already proven to accurately detect false assemblies in microbial genome sequencing projects. These two algorithms will be refined and combined to provide a probabilistic support index for scaffold junctions and will function on much larger and more complex eukaryotic genomes, including *Daphnia*. A significant outcome is the creation and implementation of a support index along localized regions of genome sequence assemblies to indicate regions of high and low confidence.

Applications will be accepted until October 31, 2005. Interested candidates may contact John Colbourne for further information (by sending email to jobs@cgb.indiana.edu). Please submit a CV and a description of your background and interests, and have three (3) letters of recommendation sent directly to the address below. Be sure to refer to Research Fellow CGB-008 within your cover letter.

Position #CGB-008 Attn: Research Fellow Center for Genomics and Bioinformatics Indiana University 1001 E. 3rd St. Bloomington IN 47405-3700

Indiana University is an affirmative action equal opportunity employer.

Center for Genomics and Bioinformatics, Indiana University 915 East Third Street, Bloomington, Indiana USA 47405-7107 Office Phone (812) 856-0966 - Lab Phone (812) 856-0418 *Daphnia* Genomics Consortium - <http://daphnia.cgb.indiana.edu/> jcolbour@cgb.indiana.edu jcolbour@cgb.indiana.edu

InstZoology London ResTech

INSTITUTE OF ZOOLOGY ZOOLOGICAL SOCIETY OF LONDON

RESEARCH TECHNICIAN POST CONSERVATION GENETICS AND MOLECULAR ECOLOGY Starting salary GBP 17,122 p.a. pro-rata (pay award pending) Applications are invited for the post of research technician on a DEFRA-funded project to investigate

the effect of habitat restoration in agricultural landscapes on bumblebees. Molecular genetic techniques will be used to estimate the number of bumblebee colonies utilising patches of wildflowers. Experience in molecular biology techniques, particularly microsatellite genotyping, will be an advantage. The post is for eight months and is available from 1st October 2005. For informal enquiries contact: Dr Andrew Bourke (andrew.bourke@ioz.ac.uk) or Dr W.C. Jordan (bill.jordan@ioz.ac.uk Tel: 020 7449 6631). Applications, with a current CV and names and full contact details of three referees, should be sent to Human Resources, Zoological Society of London, Regent's Park, London NW1 4RY, UK (email HR@zsl.org), from whom further details are available.

CLOSING DATE: 22 September 2005

Read about ZSL's work on <http://www.zsl.org> REGISTERED CHARITY NO. 208728

Bill Jordan <w.jordan@ucl.ac.uk>

IowaStateU MicrobialEvolEcol

The Department of Ecology, Evolution & Organismal Biology at Iowa State University seeks a tenure-track Assistant Professor focusing on microbial processes that influence population, community, or ecosystem dynamics, or microbial interactions with other organisms. Applicants may possess expertise in any taxonomic group(s) that may be considered microbial, including fungi, prokaryotes, or protists. The successful candidate will join a dynamic department of 31 faculty (<http://www.eeob.iastate.edu>) who use integrative approaches that bridge disciplines and span multiple levels of biological organization. Applicants must have a Ph.D. in a biological science and are expected to develop a nationally recognized research program and contribute to undergraduate and graduate teaching. Please submit curriculum vitae, statements of research and teaching interests, three reprints and have three letters of recommendation sent to: Dr. Jim Raich (jraich@iastate.edu), Search Committee Chair, EEOB Department, Iowa State University, Ames, IA 50011-1020, by October 31, 2005 to guarantee consideration. Electronic applications are encouraged. ISU is an Equal Opportunity / Affirmative Action Employer.

dlavrov@iastate.edu dlavrov@iastate.edu

KansasStateU EcologicalGenomics

ASSISTANT PROFESSOR KANSAS STATE UNIVERSITY ECOLOGICAL GENOMICS

The Division of Biology at Kansas State University invites applications for a tenure-track Assistant Professor position beginning in the 2006/2007 academic year. We seek an individual who will establish a strong, extramurally funded research program in ecological genomics. Ecological genomics is a new integrative field of study that seeks to understand the genetic mechanisms underlying adaptive responses of organisms to their natural environment. We prefer a candidate with expertise in microbial ecological genomics. However, outstanding applicants engaged in ecological genomic studies of plants or animals are encouraged to apply. This individual will be an integral part of our research initiative in Ecological Genomics (<http://www.ksu.edu/ecogen>), and will contribute to graduate and undergraduate instruction in the Division. A Ph.D. or equivalent and post-doctoral training are required. The position will include a competitive salary and start-up package. Additional information is available on our website (<http://www.k-state.edu/ecogen/recruit-AsstProf-1.html>).

Applicants should submit a comprehensive curriculum vitae, statement of research and teaching interests, representative publications, and have three letters of reference sent to: Chair; Ecological Genomics Search Committee; Division of Biology; Kansas State University; 232 Ackert Hall; Manhattan, KS 66506-4901. Review of applications will begin on October 15, 2005 and will continue until the position is filled.

KSU is an Equal Opportunity/Affirmative Action Employer, and encourages diversity among its employees.

Doris Merrill Ecological Genomics, KSU Biology 785-532-3482, dmerrill@ksu.edu

KentStateU EvolBiol

MICROBIAL ECOLOGIST. Applications are invited to fill a tenure track position in the Department of Biological Sciences (www.kent.edu/biology) at the level of

Assistant Professor beginning in August 2006. This position will enhance the Department's emphasis on processes and properties in freshwater ecosystems. Departmental strengths include a strong aquatic ecology program, an on-campus research wetland, superb core research facilities, diverse field sites, and competitive start-up packages. The successful candidate is expected to establish a high-quality, extramurally funded research program and exhibit a commitment to excellence in graduate and undergraduate education. Applicants must have a Ph.D. degree in a related discipline and post-doctoral experience.

Applicants should send: (i) a curriculum vitae and relevant reprints; (ii) a summary of research experience indicating the applicant's most important contributions; (iii) detailed plans for future research; (iv) a statement of teaching philosophy; and (v) three letters of recommendation. Materials should be sent to: Chair, Microbial Ecologist Search Committee, Department of Biological Sciences, Kent State University, P.O. Box 5190, Kent, Ohio 44242-0001, FAX: 330-672-3713. Review of applications will begin September 30, 2005 and continue until the position is filled.

Kent State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from candidates who would enhance the diversity of the University's faculty.

NEUROSCIENCE. Applications are invited to fill a tenure-track position in KentState's Department of Biological Sciences (www.kent.edu/biology) at the level of ASSISTANT PROFESSOR beginning in August 2006. This position is part of an ongoing expansion of the faculty in biological sciences. Departmental strengths include programs in neurobiology, physiology, and molecular biology, superb core research facilities, and competitive startup packages. Research in all areas of neuroscience will be considered. The successful candidate is expected to establish an extramurally funded research program and exhibit a commitment to excellence in graduate and undergraduate education. Applicants must have Ph.D. degree in a related discipline and postdoctoral experience.

Applicants should send a CV, statements of research and teaching interests, and three letters of recommendation to: Chair, Neuroscience Search Committee, Department of Biological Sciences, KentStateUniversity, P. O. Box 5190, Kent, OH 44242-0001, Fax: 330-672-3713. Review of applications will begin October 20, 2005, and continue until the position is filled.

Kent State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from candidates who would enhance the diversity of the University's faculty.

ENVIRONMENTAL MICROBIOLOGIST. Applications are invited to fill a tenure-track position in KentState's Department of Biological Sciences (www.kent.edu/biology) at the level of Assistant Professor. This position is part of an ongoing expansion of the faculty in biological sciences. We seek a research-focused microbiologist able to apply modern molecular techniques to the study of environmental microbiology. Individuals must have a strong commitment to collaborative and interdisciplinary research. The successful candidate is expected to establish a high-quality, extramurally funded research program and exhibit a commitment to excellence in graduate and undergraduate education. Applicants must have a Ph.D. degree in microbiology, biology or a related discipline, and post-doctoral experience. The university provides superb core research facilities, field research sites, and a competitive startup package.

Applicants should send: (i) a curriculum vitae and relevant reprints; (ii) a statement of research and teaching interests including plans for future research and (iii) three letters of recommendation. Materials should be sent to: Chair, Environmental Microbiologist Search Committee, Department of Biological Sciences, Kent State University, P.O. Box 5190, Kent, Ohio 44242-0001, FAX: 330-672-3713. Review of applications will begin October 20, 2005 and continue until the position is filled.

KentStateUniversity is an Affirmative Action/Equal Opportunity Employer and encourages applications from candidates who would enhance the diversity of the University's faculty.

ECOSYSTEM/WATERSHED ECOLOGIST. Applications are invited to fill a tenure track position in Kent State's Department of Biological Sciences

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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>

LaTrobeU EvolGenetics

School of Molecular Sciences Department of Genetics
La Trobe University

Lecturer (Level B) or Senior Lecturer (Level C) Full-time, Continuing Position, Commencing January 2006

Applications are invited for a full-time continuing Lecturer/Senior Lecturer position in the Department of Genetics, School of Molecular Sciences, Faculty of Science, Technology and Engineering.

Applicants should have a PhD or equivalent and post-doctoral research experience as well as a record of research achievement preferably in the area of molecular ecological/evolutionary genetics. The appointee will be expected to contribute to the teaching of undergraduate courses in genetics and evolution to students in the Faculty of Science, Technology and Engineering, to establish, or have established a research group to complement existing research programs in the Department and to supervise Honours and Postgraduate students.

Remuneration package: \$66,547 to \$79,024 (Level B) and \$81,517 to \$93,997 (Level C) per annum, which includes 17% employer superannuation.

Position no: 50000676 Campus: Bundoora

Closing date: Friday 16 September 2005

Applicants must obtain a position description and details of how to apply by visiting our website at www.latrobe.edu.au/jobs/ or Email: Personnel@latrobe.edu.au or telephone (03)9479 1365, quoting appropriate reference numbers. La Trobe University is an Equal Opportunity Employer.

Dr Yvonne Parsons Department of Genetics
La Trobe University, Victoria 3086, Australia
Ph: 61(0)3 9479 2256 Fax: 61(0)3 9479 2480
<http://www.latrobe.edu.au/genetics/staff/parsons/-homepage/> Y.Parsons@latrobe.edu.au

MBL WoodsHole CompBiol

COMPUTATIONAL BIOLOGY RESEARCH ASSISTANT [RAI AMC], Josephine Bay Paul Center, Full-Time, Non-Exempt

The Marine Biological Laboratory is seeking applicants for a full-time year round Research Assistant I position in the Josephine Bay Paul Center for Comparative Molecular Biology and Evolution. This position is part of the Center's Global Infectious Disease Program and will involve computational biology research and tool development in relation to an expanding Generic Model Organism Database effort (see <http://gmod.mbl.edu>).

Duties include but are not limited to computational biology and bioinformatics aspects of ongoing genome, gene expression and gene annotation projects in important human pathogens such as Giardia, Trypanosoma and Schistosoma. Additional information about the center and the McArthur lab may be found at: <http://jbpc.mbl.edu/mcarthur>. This position is available immediately. Continuation is contingent on performance and available funds.

The position requires a B.Sc. in computer science, biology or a related hybrid degree. Must be skilled in design, construction and maintenance of relational databases. Specific skills with MySQL, HTML, Perl, web-based graphical interfaces and systems administration of database servers strongly desired. Experience with Sun Grid Engine, Beowulf clusters or other forms of parallel computing strongly desired. Specific training in computational biology, bioinformatics or genomics is desirable, but training will be provided if needed. Must be a clear communicator as the project involves informal teaching and collaboration with multiple laboratories in the parasitology research community.

Applicants should submit a cover letter, curriculum vitae and a list of three or more references, including telephone numbers and email addresses. Please send materials to: Marine Biological Laboratory, Attn: Human Resources, reference code [RAI AMC], 7 MBL Street, Woods Hole, MA 02543; telephone 508 289-7422; or email materials with RAI AMC reference code to: resume@mbledu An Equal Opportunity/ Affirmative Action Employer/Non-smoking workplace

Deadline: Until a suitable candidate is identified.

mcarthur@mbledu mcarthur@mbledu

MBL WoodsHole GeneExpression

GENE EXPRESSION RESEARCH ASSISTANT [RAI SAGE], Josephine Bay Paul Center, Full-Time, Non-Exempt

The Marine Biological Laboratory is seeking applicants for a full-time year round Research Assistant I position in the Josephine Bay Paul Center for Comparative Molecular Biology and Evolution. This position is part of the Center's Global Infectious Disease Program and will involve examination of global gene expression in the important human pathogen *Schistosoma mansoni*.

Duties include but are not limited to the molecular biology aspects of examination of global gene expression in the important human pathogen *Schistosoma mansoni*. The primary method will be Serial Analysis of Gene Expression (<http://www.sagenet.org>) Additional duties will include analysis of gene expression data in preparation for publication. Training in high-throughput genomics and computational biology will be provided. Questions regarding the exact duties and responsibilities may be addressed to mcarthur@mbledu. Additional information about the center and the McArthur lab may be found at: <http://jbpc.mbl.edu/mcarthur>. This position is available immediately. Continuation is contingent on performance and available funds.

The position requires a B.Sc. in molecular biology. Must be familiar with as many of the following as possible: DNA and RNA extraction, cDNA construction, restriction digests, PRC, RT-PCR, cloning and plasmid preparation, DNA sequencing.

Applicants should submit a cover letter, curriculum vitae and a list of three or more references, including telephone numbers and email addresses. Please send materials to: Marine Biological Laboratory, Attn: Human Resources, reference code [RAI SAGE], 7 MBL Street, Woods Hole, MA 02543; telephone 508 289-7422; or email materials with RAI SAGE reference code to: resume@mbledu An Equal Opportunity/ Affirmative Action Employer/Non-smoking workplace

Deadline: Until a suitable candidate is identified.

mcarthur@mbledu mcarthur@mbledu

McMasterU ComputBiology

COMPUTATIONAL BIOLOGY ASSISTANT PROFESSOR McMASTER UNIVERSITY DEPARTMENT OF BIOLOGY

McMaster University is a research-intensive institution and leading centre for biological and biomedical research. The Department of Biology is expanding and over the past two years has filled six new faculty posi-

tions. We invite applications for a tenure-track position in Computational Biology at the Assistant Professor level. Target start date for the position is July 1, 2006.

Candidates must hold a Ph.D. in Biology or a related field, possess at least one year of postdoctoral experience, and have a productive research record in an area of Computational Biology. We encourage applications from a broad range of individuals applying mathematics, statistics, and/or computer science to the study of biological questions. Research areas include but are not limited to bioinformatics, developmental biology, genomics, molecular biology, molecular evolution, neurobiology, ecology, population biology, population genetics and systems biology. We encourage candidates with strong genomics and bioinformatics/genetics background to apply. We also encourage individuals who would be interested in interacting with members of the recently established Centre for Environmental Genomics and Biotechnology, individuals who run a laboratory component, and/or individuals who could significantly interact with other laboratory or field scientists in the Department to apply.

The successful applicant will be expected to establish and maintain an independent and externally funded research program and contribute to the education of undergraduate and graduate students.

Applicants should submit a curriculum vitae, a statement of their research interests, a statement of their teaching interests and experience, and three of their most important publications. Applicants should arrange for three letters of recommendation to be sent to - Dr. G.B. Golding, Search Committee Chair, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario L8S 4K1, Canada. Evaluation of applicants will begin October 21, 2005.

McMaster University is strongly committed to employment equity within its community, and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates, including women, members of visible minorities, Aboriginal persons, members of sexual minorities and persons with disabilities.

Brian Golding

MississippiStateU PlantSystematics

MULTIPLE FACULTY POSITIONS IN BIOLOGI-

CAL SCIENCES

As part of an ongoing expansion, the Department of Biological Sciences, Mississippi State University (www.msstate.edu/dept/biosciences), invites applications for multiple tenure-track faculty positions, beginning August 16, 2006. The Department of Biological Sciences is focused on enhancing its international research reputation and expanding the doctoral program. During this round of recruitment we are specifically interested in the following areas: Cell Biology, Evolution, Immunology, Microbial Genetics and Plant Systematics. Successful applicants will be encouraged to take advantage of our state-of-the-art infrastructure in proteomics, genomics, and computing capabilities at the MSU campus, including the Life Sciences & Biotechnology Institute (www.mafes.msstate.edu/biotech) and Engineering Research Center (www.erc.msstate.edu). The successful candidates will be required to develop externally funded research programs and to direct graduate students and will contribute to the teaching mission of the department. To apply send CV, reprints of three representative publications and a concise statement of current and future research interests (1 page), and identify areas of teaching competence. Applicants should arrange for at least three letters of reference to be submitted. Screening will begin October 31, 2005 and will continue until the positions are filled. Applications should be sent to: Nara Gavini (Faculty-Search@biology.msstate.edu) Head, Department of Biological Sciences, P.O. Box GY, Mississippi State University, Mississippi State, MS 39762.

Mississippi State University is An Affirmative Action/Equal Opportunity Employer

Walter Diehl <wdiehl@biology.msstate.edu>

NortherArizonaU PathogenEvol

Research Specialist/Technician-Northern Arizona University

The Center for the Study of Dangerous Pathogens 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*, 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 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 the NAU Human Resources Department at 928-523-2223, HR.Contact@nau.edu, or go to the NAU HR Jobs website at <http://hr.nau.edu/m/content/view/-3/25/>. Reference Vacancy# 555057. Jim Schupp, B.S., M.B.A. Assistant Director of Research Keim Genetics lab Northern Arizona University Biology Department Box 5640 Flagstaff, AZ 86011-5640 james.schupp@nau.edu 928-523-1120 928-523-0639 FAX J

James.Schupp@NAU.EDU

PurdueU QuantEcol

The Department of Forestry and Natural Resources at Purdue University is seeking applicants for the position of Assistant Professor of Wildlife Ecology, specializing in quantitative approaches to studying wildlife populations or communities. This is a tenure-track, academic-year appointment with teaching and research responsibilities.

RESPONSIBILITIES: The successful candidate will be expected to develop a vigorous, externally funded research program emphasizing the development and/or application of quantitative methods and analytical tools to study behavioral, population or community processes of wild vertebrates. Possible focal areas include but are not limited to statistical modeling of population attributes, spatial ecology in complex landscapes, metapopulation biology, conservation biology, population- or community-level effects of anthropogenic disturbance, and population-level consequences of individual behavior. Abundant opportunities exist for col-

laborative research that align strategically with existing departmental strengths in fragmentation ecology, land-use change modeling, disturbance ecology, and population genetics as well as university-wide initiatives in climate change and ecological sustainability. Contemporaneous searches are being conducted in Aquatic Community Ecology and Climate Change Ecology, providing the candidate with a strong incoming cohort of colleagues for collaboration. The successful candidate also will teach an upper level course in vertebrate population dynamics, contribute to an undergraduate course in wildlife ecology and a wildlife field practicum, and develop a graduate course in area of expertise.

QUALIFICATIONS: A Ph.D. in wildlife ecology, quantitative ecology, conservation biology or related field. Expertise in the application of quantitative techniques and/or modeling of ecological processes for the study and management of vertebrate wildlife populations in human-dominated landscapes is desired.

SALARY: Salary will be commensurate with experience and training.

CLOSING DATE: November 15, 2005, or until filled.

APPLICATION PROCESS: Submit: (1) a cover letter, including the names of three people who have been asked to send letters of reference by the position closing date; (2) a curriculum vitae; and (3) statements of research and teaching experience and interests. Application packets should be addressed to Robert K. Swihart, Chair, Wildlife Ecology Search Committee, Purdue University, Department of Forestry and Natural Resources, 715 West State Street, West Lafayette, Indiana 47907-2061. Questions may be directed to the Search Committee Chair via telephone (765-494-3590) or email (rswhart@purdue.edu).

Purdue University is an Equal Access/Equal Opportunity /Affirmative Action Employer. Women and minorities are encouraged to apply.

“DeWoody, James Andrew” <dewoody@purdue.edu>

RanchoSantaAna BotanicGarden Director

Job Announcement: Director of Research and Chair, Graduate Program in Botany

Rancho Santa Ana Botanic Garden (RSABG) seeks a successful leader, scholar and administrator to direct its

research programs and to serve as Chair of the Graduate Program in Botany, Claremont Graduate University.

RSABG is a 78-year-old non-profit organization dedicated to promoting botany, conservation, and horticulture to inspire, inform, and educate the public and the scientific community about California's native flora. The Garden conducts programs in research, graduate education, public and professional education, and rare plant conservation. Facilities include a one-million specimen herbarium with worldwide representation, a living plant collection of over 3,000 species and varieties on 86 acres, research laboratories, greenhouse, nursery, seed storage facilities, and a 50,000-volume research library. The Garden also publishes the scientific journal *Aliso*.

RSABG has an active, broad-based, internationally recognized research program in systematic and evolutionary botany, and is the Botany Program for Claremont Graduate University by an affiliation agreement, awarding masters and doctorate degrees. Over 90 highly trained students have received Masters of Science or Doctor of Philosophy degrees since inception of the program.

Qualifications: Reporting to the Executive Director, this endowed position will have overall responsibility for management of the Garden's research programs, including oversight of the graduate Botany Program (as Department Chair), as well as supervision of the herbarium and research library. The Director will also participate in teaching graduate-level courses in botany and maintain an active externally-funded research program, with a scientific focus that will complement and strengthen the current research at the institution. The Director of Research will be fully committed to graduate education, a well-regarded researcher, a skilled communicator, and an excellent administrator and manager. Required are a doctorate in botany or a related field, with specialization in some aspect of plant systematics or evolutionary biology preferred, and an excellent and ongoing track record of scientific publication and extramural funding. The Director of Research will be expected to hold an Associate or Full Professorship at Claremont Graduate University, which will be co-terminous with the appointment as Director of Research.

To apply, send a letter of interest and curriculum vita to Patrick S. Larkin, Executive Director, Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, CA 91711. Letters of reference will be requested later. For more information contact Mr. Larkin directly at (909) 625-8767,

ext. 220 or by e-mail at Patrick.Larkin@cgu.edu <<mailto:Patrick.Larkin@cgu.edu>>. The search will remain open until the position is filled.

The Botanic Garden values a diverse community and is committed to equal opportunity in employment. In addition to meeting fully its obligations under federal and state law, RSABG is committed to creating a community in which a diverse population can live and work in an atmosphere of tolerance, civility, and respect for the rights and sensibilities of each individual, without regard to economic status, ethnic background, political views, sexual orientation, or other personal characteristics or beliefs.

Ann Joslin Director of Community Relations & Botany Program Coordinator Rancho Santa Ana Botanic Garden 909.625.8767, ext. 251 www.rsabg.org

Selected by the Editors of Los Angeles Magazine BEST of LA 2005

ann.joslin@cgu.edu

TexasStateU BiologyChair

Chair, Department of Biology The College of Science at Texas State University-San Marcos is inviting applications for the position of Chair in the Biology Department.

Position: The chair is the chief academic officer of the department assuming a broad range of responsibilities, supported by an office staff of three full-time administrative assistants. Nationally competitive salary and start-up package are negotiable.

Department: Our dynamic Department covers the full spectrum of the biological sciences, with a strong commitment to integrating molecular, organismal and field biology (see www.bio.txstate.edu). The Department offers an interdisciplinary Ph.D. in Aquatic Resources and Master's degrees in Biology, Aquatic Biology, Wildlife Ecology, Education, and Population and Conservation Biology. Externally funded research, representing all the disciplinary areas of our faculty, is supported by international, federal, state and private research and resource management agencies. The Department has 34 tenured and tenure-track faculty, almost 950 undergraduate majors, 100 Master's and 30 Doctoral students.

University: Texas State is a large university (over 27,000 students) with a commitment to quality instruction, an increasing emphasis on scholarship and research and a commitment to attaining Hispanic Serving Institute status. Additional resources associated with the Department include the 4200-acre Freeman Ranch, the San Marcos Springs and River ecosystem, the River Systems Institute, and state and federal fish hatcheries. San Marcos, a historic town of 40,000, is centrally located within Texas at the edge of the scenic Hill Country 30 miles south of Austin.

Qualifications: Applicants must have an earned doctorate, a sustained record of professional achievement, supervisory experience in a Ph.D. program and be tenureable at the level of Full Professor in our Department. Desirable experience includes previous administration or management experience, a record of building interdisciplinary programs, working effectively with many constituencies, and developing and strengthening research programs and facilities.

Application: Consideration of applications will begin October 15, 2005, and will continue until the position is filled. Candidates should submit, by mail, a CV, statements of research interests, academic vision and administrative style, copies of representative publications, and the names and addresses of five references. Submit materials to:

Dr. Paula S. Williamson, Chair, Biology Chair Search Committee Department of Biology Texas State University-San Marcos 601 University Drive San Marcos, TX 78666

Texas State University is an equal opportunity educational institution and is committed to increasing the number of women and minorities in faculty and senior administrative positions.

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

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

The Department of Biological Sciences at The University of Alabama invites applications for a tenure-track Assistant Professor position in Evolutionary Developmental Biology to begin August 2006. We seek candidates whose research utilizes modern molecular approaches to study the evolution of developmental mechanisms in either plant or animal systems. The successful applicant will be expected to interact with and strengthen existing research groups in developmental genetics, cellular biology, neurobiology, molecular evolution, and/or systematics.

Candidates must have a Ph.D. and postdoctoral research experience. The appointee will be expected to develop an active, externally funded research program and to work closely with graduate and undergraduate students as a director of research and as an advisor. The successful candidate is expected to have an interest in developing quality instruction at the undergraduate and graduate levels. The University of Alabama is a recipient of a Howard Hughes Medical Institute Undergraduate Science Education Program grant and an NSF IGERT graduate training grant. The Coalition for Biomolecular Products and the Center for Freshwater Studies offer opportunities for interdepartmental collaborations.

To apply, send a curriculum vitae and a letter of application that includes research goals, teaching philosophy and proposed courses, and have at least three letters of reference sent to: Evolutionary Developmental Biology Search, Department of Biological Sciences, Box 870344, The University of Alabama, Tuscaloosa, AL 35487. Initial email inquiries may be directed to the chair of the search committee, Dr. Janis O'Donnell (jodonnell@bama.ua.edu). However, full applications must be submitted in hard copy to the address above. Review of applications will begin on December 16, 2005 and will continue until the position is filled.

For more information, visit our website at <http://www.as.ua.edu/biology/> The University of Alabama is an Equal Opportunity/Affirmative Action employer and welcomes applications from women and members of minority groups.

— Dr. Leslie Rissler Assistant Professor Ecology and Systematics Department of Biological Sciences 307 Mary Harmon Bryant Hall Box 870345 University of Alabama Tuscaloosa, AL 35487

office: 205-348-4052 lab: 205-348-4039
rissler@bama.ua.edu <http://www.as.ua.edu/biology/-rissler.htm> rissler@bama.ua.edu

UAlbany EvolAnthro

The Department of Anthropology, University at Albany ? SUNY seeks a biological anthropologist at the assistant professor level. The candidate will contribute to the interdepartmental human biology major, and programs in anthropology in the context of a four field anthropology department. Specific research focus is open but should complement existing strengths. The candidate must have a strong research record, and will be expected to develop an externally funded research program. It is desirable that the candidate be able to teach either human osteology, biomedical anthropology, molecular anthropology, or a cross disciplinary course. Ph. D. required. Position contingent on final budget approval. Salary commensurate with experience. Applicants must address in their applications their abilities to work with and instruct a culturally diverse population. Finalists will be asked to give a presentation. Applicants should send by November 7, 2005 a cover letter, research and teaching statements, CV, contact information for three references, copies of teaching evaluations, and no more than three publications to: David Strait, Dept. of Anthropology, University at Albany, 1400 Washington Ave, Albany, NY, 12222. The University at Albany is an EO/AA/IRCA/ADA employer.

David Strait, Ph. D. Department of Anthropology University at Albany 1400 Washington Avenue Albany, NY 12222

office phone: (518) 442-4717 lab phone: (518) 442-4699 fax: (518) 442-5710 e-mail: dstrait@albany.edu
 web page: www.albany.edu/anthro/fac/strait.htm
 Human Biology: www.albany.edu/anthro/-undergrad/human%20biology.htm David Strait
[<dstrait@albany.edu>](mailto:dstrait@albany.edu)

UAlberta EvolBiol

Assistant or Associate Professor Plant Evolutionary Biology and Systematics Department of Biological Sciences, University of Alberta

http://www.biology.ualberta.ca/news_events/-

employment/ UNIVERSITY OF ALBERTA ?
 The Department of Biological Sciences invites applications for a tenure-track position at the Assistant or Associate Professor level in plant evolution and systematics. Excellent applicants will be considered from a range of subdisciplines (systematics, population genetics, evolutionary ecology, etc.), who have expertise in phylogenetic analysis and plant taxonomy. The successful candidate will be expected to serve as the Director of the Department's vascular plant herbarium (ALTA). The candidate must have a strong record of research and demonstrated potential for excellence in teaching. The University of Alberta offers a competitive salary commensurate with experience and an excellent benefits plan. The Department of Biological Sciences (<http://www.biology.ualberta.ca/>) consists of 70 faculty members and 275 graduate students, offering an exciting environment for collaboration with strong research groups in evolution and systematics, ecology, and plant biology. Exceptional infrastructure includes extensive research collections in diverse taxa (<http://www.museums.ualberta.ca/>) field stations, plant growth facilities, and service units in molecular biology, plant/soil chemical analysis, microscopy, imaging, and GIS. Candidates should submit a curriculum vitae, a one-page summary of research plans, a statement of teaching interests and reprints of their three most significant publications electronically to positions@biology.ualberta.ca or by mail to Dr. L. S. Frost, Chair, Department of Biological Sciences, CW 405 Biological Sciences Bldg, University of Alberta, Edmonton, Alberta, Canada T6G 2E9. Applicants must also arrange for three letters of reference to be sent to the Chair. Closing Date: October 15, 2005. The effective date of employment will be July 1, 2006. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal peoples.

Steve Kembel <steve.kembel@ualberta.ca>

UArizona 2 MicrobialEvol

FACULTY POSITIONS

DEPARTMENT OF ECOLOGY & EVOLUTIONARY

BIOLOGY**DEPARTMENT OF BIOCHEMISTRY & MOLECULAR BIOPHYSICS****UNIVERSITY OF ARIZONA**

Two tenure track positions are available as part of a new initiative in genome-based microbial science at the University of Arizona. We are searching for applicants with independent research programs within each of two broad areas: 1) microbial evolution and/or ecology, including emphases such as comparative genomics, evolution and ecology of infectious disease agents, or environmental genomics, and 2) protein structure and function on a genomic scale, including systems biology and proteomics in microbial systems. In both positions, computational and/or experimental research programs are welcome. Research organisms can be bacterial, archaeal or eukaryotic. The positions may begin as early as January 2006. Curriculum vitae and statements of research and teaching interests must be submitted online at <<http://www.uacareertrack.com/->www.uacareertrack.com>. The first position (#33412) will be in the Department of Ecology & Evolutionary Biology. Three letters of recommendation should be sent to Amanda Burke, Microbial Genomics Search, EEB Department BSW 310, 1041 E. Lowell U of A, Tucson AZ 85721. The second position (#33450) will be in the Department of Biochemistry & Molecular Biophysics. Three letters of recommendation should be sent to Margaret Gomez, Microbial Genomics Search, BMB Department BSW 362B2, 1041 E. Lowell U of A, Tucson AZ 85721. Applicants may apply to both positions. Review of applications will begin October 14 and continue until position is filled. The University of Arizona is an EEO/AA Employer - M/W/D/V. - Dr. Michael Worobey Department of Ecology and Evolutionary Biology University of Arizona Tucson, AZ 85721 tel: (520) 626-3456 fax: (520) 621-9190 worobey@email.arizona.edu worobey@email.arizona.edu

UCDavis Bioinformatics
Bioinformatics in Plant Genomics Programmer

Department of Evolution & Ecology, University of California, Davis

Senior level bioinformatician is being sought to lead all bioinformatics elements of a NSF-funded association

genetics study in pine. Resequencing and haplotype mapping will be conducted for 10,000 genes. Salary range \$4,209.00 - \$7,874.00/month, depending on qualifications. For information contact Dr. David Neale (db-neale@ucdavis.edu, 530-754-8431). To apply: <http://-jobs.hr.ucdavis.edu/jm/ViewVacancy?id=3814>

Robert D. Westfall, Quantitative Geneticist Sierra Nevada Research Center PSW Research Station, USDA Forest Service Fall-Spring: Summer: PO Box 245 . c/o Inyo National Forest, Box 429 Berkeley, CA 94701 USA Lee Vining, CA 93541 USA PH: 510-559-6438 760-647-3026 FAX: 510-559-6499 760-647-3027 email: bwestfall@fs.fed.us

Bob Westfall <bwestfall@fs.fed.us>

UCLA EvolBiology

The Department of Ecology and Evolutionary Biology at UCLA invites applications for an OPEN RANK, TENURE-TRACK, FACULTY POSITION in Evolutionary Biology, broadly defined. The expected start date is September, 2006. Candidate must have a Ph.D.; postdoctoral experience is desired. Salary is commensurate with education and experience. Successful candidates are expected to maintain a rigorous research program, and to contribute to undergraduate and graduate teaching. UCLA has outstanding academic support for faculty, including access to the UC Natural Reserve System, a campus-wide Institute of Pure and Applied Mathematics, several departments with computational and evolutionary biology interests, and attractive startup packages. Submit a CV, statements of research and teaching interests, and names and addresses of three references online to <http://www.eeb.ucla.edu/-Evolutionist>. Please contact Charles Taylor (taylor@biology.ucla.edu) for additional information. Reviews of applications will begin September 30, 2005. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

Charles Taylor <taylor@biology.ucla.edu>

UCincinnati MolGenetics

FACULTY POSITION IN ANIMAL MOLECULAR

LAR GENETICS/GENOMICS. The Department of Biological Sciences, University of Cincinnati (www.biology.uc.edu) intends to fill a tenure-track position at the Assistant or Associate rank by September 2006 pending budgetary approval. We seek a broadly trained animal geneticist who integrates across levels of organization to understand behavioral, evolutionary, or ecological processes; research areas could include genetics of behavior, neuroscience, comparative genomics, quantitative genetics, or development, and could employ empirical, computational or modeling approaches. Development of a rigorous, externally funded research program and training of MS and Ph.D. students is expected. Teaching duties may include participation in undergraduate/graduate courses in genetics and molecular biology, and the candidates specialty. Applicants must have a Ph.D. or equivalent degree; postdoctoral experience will be advantageous. Applicants should submit a curriculum vitae, statements of research and teaching interests, and three letters of recommendation to: Faculty Search Committee, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006. Review of applicants will begin October 14, 2005. The University of Cincinnati is an equal opportunity/affirmative action employer. Women, minorities, veterans and persons with disabilities are encouraged to apply.

Ron DeBry Department of Biological Sciences University of Cincinnati Cincinnati, OH 45221-0006 (513) 556-9743 ron.debry@uc.edu

“Ronald W. DeBry”

UFlorida ChairAnthro

THE UNIVERSITY OF FLORIDA invites applications for Chair of the Department of Anthropology, professor rank, effective August 1, 2006. With 34 faculty and 23 affiliated faculty from other centers and departments, 180 graduate students and 325 undergraduate majors, it is among the largest anthropology departments in the nation. The department supports a holistic, four-field approach to anthropology with a strong commitment to field and laboratory research. The department strongly values collegiality, an interdisciplinary focus and the free exchange of ideas among our diverse faculty. Applicants for Chair must have: 1) an earned doctorate and scholarly credentials commensurate with professorial rank at a major research-intensive institution, 2) an active research program with a record of good external

funding, 3) effective communication and organizational skills, 4) demonstrated teaching skills and 5) experience as a leader/administrator at a major scholarly institution. In addition, international experience and an ability to interact with other disciplines, departments and programs are highly desirable. The University of Florida is a doctoral research-intensive university with approximately 48,000 students in the 16 colleges and professional schools on campus. UF is one of the most comprehensive universities in the United States, encompassing virtually all academic and professional disciplines, including nationally renowned medical centers, a college of agriculture, and programs in African Studies, African American Studies, Latin American Studies, Women's Studies, Gerontology and Asian Studies, all of which have collaborative relationships with the anthropology department. The Search Committee seeks a pool of candidates with wide diversity in ethnicity and gender. Consideration of completed applications begins December 1, 2005. Applications postmarked after that date will not be reviewed. Salary will be commensurate with qualifications. Applicants should submit: 1) a letter explaining their interest in the position, 2) a separate statement describing their administrative experience and their approach to the responsibilities of a Department Chair, 3) a full Curriculum Vitae and 4) contact information for four persons who can supply letters of reference. Send the application to: Chair Search Committee, Department of Anthropology, University of Florida, P.O. Box 117305, Gainesville, FL 32611-7305.

– Connie J. Mulligan, PhD Associate professor Department of Anthropology 1112 Turlington Hall PO Box 117305 University of Florida Gainesville, FL 32611 Office: B119 Turlington Hall Tele: (352) 392-2253, ext 248 Fax: (352) 392-6929 email: mulligan@anthro.ufl.edu website: <http://www.clas.ufl.edu/~users/mulligan/Webpage/index.html> Connie Mulligan <mulligan@anthro.ufl.edu>

UFlorida PlantPopGenetics

PLANT POPULATION GENETICS

The Department of Botany at the University of Florida invites applications for a tenure-track, ASSISTANT PROFESSOR in the area of plant population genetics to begin in August 2006. Preference will be given to applicants with postdoctoral experience and who use molecular methods and/or theoretical approaches

to address questions relating to evolutionary processes, phylogeography, conservation, and/or ecological interactions. Applicants who can complement and bridge existing strengths in the department are desired. A strong commitment to both undergraduate and graduate teaching and training is required. The successful applicant will be expected to develop a nationally recognized research program, and will be a member of the University of Florida Genetics Institute (<http://www.ufgi.ufl.edu/>). Applicants should send a curriculum vita, brief statements of research interests and teaching philosophy, and a selection of reprints (no more than four) to: Genetics Search Committee, Department of Botany, 220 Bartram Hall, P.O. Box 118526, University of Florida, Gainesville, FL 32611-8526 (<http://web.botany.ufl.edu/>). Candidates should request three referees to submit letters of recommendation. Application materials should be received by Monday, December 5th, 2005. We value diversity as a component of excellence and encourage members of underrepresented groups to apply.

– Kim Holloway University of Florida: Botany Department 220 Bartram Hall: P.O. Box 118526 Gainesville, FL 32611 Phone (352) 392-1175 Fax (352) 392-3993 <http://web.botany.ufl.edu> holloway@botany.ufl.edu holloway@botany.ufl.edu

UGeorgia 2 MolEvol Theory

TWO FACULTY POSITIONS IN EVOLUTIONARY BIOLOGY

As part of a long-term commitment to building strengths in evolutionary biology, the Department of Genetics at the University of Georgia plans to hire five new faculty in evolutionary biology over the next three years. This year, we invite applications for two tenure-track positions in evolutionary biology at the Assistant Professor level. For one position, we have a preference for a scientist working in the field of molecular evolution. For the second position, we are looking for an evolutionary biologist whose work includes a strong theoretical component. Future faculty lines will be in the areas of ecological genetics, evolutionary genomics, and evolution & development. Applications should be sent by email as a single PDF file that includes a cover letter, CV, statements of research and teaching interests, and representative publications, by October 14, 2005 to the appropriate e-mail address be-

low. Three letters of recommendation should be sent by the references, either in PDF format to the appropriate e-mail address, or in hard copy, to the Molecular Evolution Search Committee or the Evolutionary Biology/Theory Search Committee, Department of Genetics, University of Georgia, Athens, GA 30602-7223. Applicants interested in applying for both positions should send two separate applications. For information about the department, see <http://www.genetics.uga.edu>. For the molecular evolution position, please send applications to: molevol@uga.edu. For the evolutionary biology/theory position, please send applications to: evo-biol@uga.edu.

The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

Tina Weidemann <guthrie@uga.edu>

UGeorgia EvolBiol

The following ad will appear in the Sept. 16 issue of Science.

Systematic and Evolutionary Biology

The Plant Biology Department at the University of Georgia has an opening for an Assistant or Associate Professor in Systematic and Evolutionary Biology. We seek a systematic biologist who uses innovative approaches to address fundamental questions about plants, algae or fungi in areas such as phylogenetics, molecular evolution, speciation or genome evolution. The successful candidate is expected to develop a vigorous, externally-funded research program and to teach and train undergraduate and graduate students in systematics. Cover letter, curriculum vitae, short statements of research interests and teaching philosophy and no more than five reprints should be assembled into a single pdf file and submitted online at <http://www.plantbio.uga.edu/positions.html>. Candidates should request four referees to submit letters of recommendation to the same site or by mail to Systematic and Evolutionary Biology Search Committee, Plant Biology Department, University of Georgia, Athens, GA USA 30602-7271. Applications received by November 4, 2005 are assured full consideration. The Franklin College of Arts and Sciences is committed to increasing the diversity of its faculty and strongly encourages applications from individuals in under-represented groups. UGA is an Equal Opportunity Employer.

Shu-Mei Chang Plant Biology Department 2502 Miller Plant Sciences Bldg University of Georgia Athens, GA 30602 <http://www.plantbio.uga.edu/~chang/-chang.html>

chang@plantbio.uga.edu

UGeorgia PlantSystematics

Jobs:

Systematic and Evolutionary Biology

The Plant Biology Department at the University of Georgia has an opening for an Assistant or Associate Professor in Systematic and Evolutionary Biology. We seek a systematic biologist who uses innovative approaches to address fundamental questions about plants, algae or fungi in areas such as phylogenetics, molecular evolution, speciation or genome evolution. The successful candidate is expected to develop a vigorous, externally-funded research program and to teach and train undergraduate and graduate students in systematics. Cover letter, curriculum vitae, short statements of research interests and teaching philosophy and no more than five reprints should be assembled into a single pdf file and submitted online at <http://www.plantbio.uga.edu/positions.html>. Candidates should request four referees to submit letters of recommendation to the same site or by mail to Systematic and Evolutionary Biology Search Committee, Plant Biology Department, University of Georgia, Athens, GA USA 30602-7271. Applications received by November 4, 2005 are assured full consideration. The Franklin College of Arts and Sciences is committed to increasing the diversity of its faculty and strongly encourages applications from individuals in under-represented groups. UGA is an Equal Opportunity Employer.

sjardeleza@plantbio.uga.edu
sjardeleza@plantbio.uga.edu

UHouston 2 EvolBiol

TWO FACULTY POSITIONS IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the

University of Houston invites applications for two tenure-track Assistant, Associate or Full Professor positions in the Division of Ecology and Evolution (http://bchs.uh.edu/faculty_res_div.php). Candidates are welcomed from all areas of Ecology and Evolutionary Biology. Each position requires an earned doctorate and postdoctoral experience. The successful candidates are expected to maintain nationally competitive externally funded research programs and participate in graduate and undergraduate teaching. The Department has spacious laboratories and offers competitive startup packages. Please submit curriculum vitae, list of publications, statement of research interests, and arrange for three letters of recommendation to be sent directly to: Dr. Dan Graur, Search Committee Chair, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5001. Review of applications will begin on October 24, 2005.

UH is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans and persons with disabilities are encouraged to apply.

Dan Graur <dgraaur@uh.edu>

UHull EvolPopGenetics

Professor/Reader in Evolutionary/Population Genetics/Molecular Ecology and Lecturer in Evolutionary/Population Genetics/Molecular Ecology

DEPARTMENT OF BIOLOGICAL SCIENCES

Applications are invited for two posts in the area of evolutionary / population genetics. We wish to make one appointment at senior level (Reader or Professor, (ref. EM371) and one at Lecturer level (ref. EM372). The posts will be tenable from 1 January 2006 (or as soon as possible thereafter) in the Department of Biological Sciences (<http://www.hull.ac.uk/biosci>).

Candidates for the senior appointment should have an international research reputation in evolutionary or population genetics, including areas such as molecular ecology, bioinformatics, behaviour and conservation genetics and evolutionary approaches to gene function and developmental biology. Although the department's molecular and chemical ecology research group currently has strength in the study of fish and aquatic invertebrates (further information: <http://www.hull.ac.uk/biosci>), applicants with interests in model and terrestrial systems, plants and micro-

organisms are also encouraged to apply. Candidates should have a strong record of publication in high-profile journals and, for appointment at senior level, of leadership of a dynamic research group supported by grant income from competitive sources.

There will be a generous start-up package, including technical support.

Salary will be on the relevant University Lecturer / Professorial scale, as appropriate.

Informal enquiries should be directed to Dr Jörg Hardege: tel. +44(0) 1482 465187 or 465496; email, j.d.hardege@hull.ac.uk (Head of Department) or Professor George Turner (g.f.turner@hull.ac.uk Director of Research).

For further information and details of how to apply, tel: 01482 465557 (textphone: 01482 466851), fax: 01482 466660, email: science-recruitment@hull.ac.uk (quoting the post reference).

Closing date: 28 October 2005

For online information see <http://www.hull.ac.uk/> L.L.Spoose@hull.ac.uk

UIdaho EvolBiol

Evolutionary Biology, with focus on spatially structured evolution, protein evolution, or genome evolution

The Department of Biological Sciences at the University of Idaho invites qualified individuals to apply for a tenure-track position in evolutionary biology, starting date fall 2006. Preference will be given to individuals at the assistant professor rank. Topics of interest include spatially structured processes of evolution, protein evolution, or genome evolution. This includes areas such as adaptive evolution, population divergence and speciation, applied evolution, and functional organization of genomes. You will have the opportunity to conduct interdisciplinary research with other faculty that participate in the Initiative for Bioinformatics and Evolutionary Studies (IBEST; <http://www.ibest.uidaho.edu/ibest>)), a group of faculty and students from the biological, computational and mathematical sciences engaged in interdisciplinary research in a supportive and collaborative environment. Current strengths of IBEST include population genetics, molecular phylogenetics, molecular ecology, and experimental evolution. The successful candidate will have

access to exceptional computational resources through IBEST. The department also enjoys strong interactions with biology faculty at nearby Washington State University (7 mi away). The successful candidate will contribute to undergraduate teaching and will teach graduate students in their area of specialization. A competitive salary and start-up package will be provided. A Ph.D. in Biology or related field is required; post-doctoral experience desirable. For more on the Dept of Biological Sciences, see <http://www.sci.uidaho.edu/-biosci/>. Moscow, Idaho is a university town nestled in the rolling Palouse hills, with exceptional quality of life, including easy access to lands ranging from alpine ranges to Hells Canyon to sagebrush to white-water rivers. Moscow and its sister city Pullman (7 mi away) are located 80 miles from Spokane, Washington, and an hour's flight from Seattle. For more info see <http://www.webpages.uidaho.edu/~pellmyr/Prospectivegradstudents.htm>.

Detailed application materials can be found at <http://www.webs.uidaho.edu/AppTrack/agency/applicant/-login.asp>. Send inquiries to pellmyr@uidaho.edu. Review of applications will begin on October 15, 2005; those received by that date will receive priority.

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

pellmyr@uidaho.edu

UIdaho FishEvolBiol

Fish Reproductive Biology Faculty Position

The Department of Biological Sciences at the University of Idaho invites qualified individuals to apply for a tenure-track position in fish reproductive biology. Preference will be given to individuals at the assistant professor rank. We seek an outstanding investigator with research interests that complement current areas of strength in fish reproductive biology within the department. Areas of potential interest include, but are not restricted to, the evolution of reproductive systems, neuroendocrinology, and reproductive behavior. The applicant will have the opportunity to conduct interdisciplinary research with other faculty in the Department, other Colleges at the University of Idaho, and the Center for Reproductive Biology (<http://www.crb.wsu.edu>) <<http://www.crb.wsu.edu>>, a joint initiative between nearby Washington State University and the University of Idaho. The University of Idaho has exceptional

live fish holding facilities for both warm water (e.g. zebrafish) and cool water (e.g. trout) species maintained through the Aquaculture Research Institute (<http://webs.uidaho.edu/aquaculture>). The applicant will be expected to teach at both the undergraduate and graduate levels. A competitive salary and start-up package will be provided. A Ph.D. in Biology or a related field is required and postdoctoral experience is preferred. For more information and to apply online, visit: <http://www.hr.uidaho.edu>. Send inquiries to biofac@uidaho.edu. Review of applications will begin on October 14, 2005; those received by that date will receive priority.

Moscow, Idaho is a university town nestled in the rolling Palouse hills, with exceptional quality of life, including easy access to lands ranging from alpine ranges to Hells Canyon to sagebrush to whitewater rivers. Moscow and its sister city Pullman (7 mi away) are located 80 miles from Spokane, Washington, and an hours flight from Seattle. For more info see <http://www.webpages.uidaho.edu/~pellmyr/-Prospectivegradstudents.htm>. The University of Idaho is an affirmative action equal opportunity employer.

Thanks,

Scott

Scott Nuismer Assistant Professor Department of Biological Sciences University of Idaho Moscow, ID 83844 (208) 885-4096 phone (208) 885-7905 fax http://www.webpages.uidaho.edu/~snuismer/Nuismer_Lab/

Nuismer <snuismer@uidaho.edu>

UIllinois LabTech

Research Specialist in Life Sciences Department of Animal Biology University of Illinois at Urbana-Champaign

The Department of Animal Biology at the University of Illinois at Urbana-Champaign seeks a full time Research Specialist in Life Sciences. Responsibilities include assisting with molecular, genetic, behavioral and field studies and supervising undergraduate researchers and general maintenance of the lab and fish stocks. A bachelor's degree in biology or a closely related field and laboratory experience is required. Training in molecular biology, behavioral biology or ichthyology is helpful, but not mandatory.

The position is available as soon as possible after the

closing date. The salary range is \$23,000-26,000 and includes health insurance. To ensure full consideration, applications must be received by November 15, 2005. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date.

To apply, submit a letter of application, vitae and names of three references to Becky Fuller, Department of Animal Biology, University of Illinois, 515 Morrill Hall, Urbana, IL 61891. Phone (217) 333-9065, e-mail: fuller@life.uiuc.edu. Applications may be submitted via e-mail.

The University of Illinois is an Affirmative Action, Equal Opportunity Employer.

Becky Fuller <fuller@life.uiuc.edu>

ULiverpool EvolBiol

Lecturerships/Snr Lecturerships/Readerships School of Biological Sciences, University of Liverpool, UK Deadline 16th Sept., Ref B/548

Several positions are available among the following areas (not all of them relevant to Evoldirers): Population Biology or Ecology of Infectious Disease Marine Biology Quantitative Biology Model Organisms Integrated Physiology Protein function and analysis (Other areas may also be considered)

We have all the usual things one expects of a good department; sexy new building, genomics kit, aspirations of greatness, etc. We are keen to bring in researchers at all levels who can build on existing strengths within the department.

If interested, please follow further information and instructions on <http://uniwww.connect.org.uk/jobs/-jb305304.html> Information on the University of Liverpool can be found at: <http://www.liv.ac.uk> Dr. Steve Paterson Lecturer in host-parasite biology School of Biological Sciences University of Liverpool LIVERPOOL, UK L69 7ZB

Tel. 0151 795 4521 Fax. 0151 795 4408 email s.paterson@liv.ac.uk Rm. 202 Biosciences Building <http://pcwww.liv.ac.uk/~stevep11/PatHome.html> Steve Paterson <S.Paterson@liverpool.ac.uk>

UMemphis ChairBiol

The University of Memphis Chair, Department of Biology

Applications and nominations are invited for the position of Chair of the Department of Biology at The University of Memphis. Applicants should have the academic rank of Professor or be near to achieving such rank. They must have an established research program, a commitment to academic excellence, and strong interpersonal and administrative skills. The Department is seeking candidates possessing a successful history of research, extramural grant support, and teaching in any of the basic areas of the biological sciences. Candidates with backgrounds in integrative biology are encouraged to apply. The starting date is flexible with an anticipated start date on or after August 2006.

The University of Memphis is a comprehensive state university with an enrollment of approximately 21,000 students. The Department of Biology offers B.S., M.S., and Ph.D. degrees in Biology. There are approximately 30 faculty, 14 staff, 50 full-time graduate students, and 700 majors in the department. The department administers the Meeman Biological Field Station and the Ecological Research Center, and is closely affiliated with the Integrated Microscopy Center and the W. Harry Feinstone Center for Genomic Research.

Additional information: Departmental information (<http://biology.memphis.edu>), University information (<http://www.memphis.edu>), or contact Dr. Joan T. Schmelz at (901) 678-2419 or jschmelz@memphis.edu.

Applicants should submit a letter of application, separate statements of research and teaching interests, a statement of administrative philosophy, and a complete curriculum vitae including a list of five references to: Chair, Search Committee, Department of Biology, The University of Memphis, Memphis, TN 38152. Review of applicants will begin November 1, 2005, and may continue until the position is filled. Women and minority candidates are encouraged to apply. The University of Memphis is an Affirmative Action/Equal Opportunity Employer.

mbeck@memphis.edu

UMinnesota OrganismalBiologist

This ad to be featured in the 30 September issue of Science

ASSISTANT PROFESSOR/CURATOR - ORGANISMAL BIOLOGIST Bell Museum of Natural History University of Minnesota

The Bell Museum of Natural History at the University of Minnesota announces a 9-month tenure-track position for an assistant professor and museum curator (www.bellmuseum.org/curator.html). The successful candidate will have an active, specimen-based research program involving amphibians, reptiles, or non-insect invertebrates, emphasizing a conceptual focus such as biodiversity, biogeography, coevolution, comparative biology, conservation, evo-devo, paleontology, phylogenetics, population processes, or other related topical areas. In addition to maintaining an innovative, extramurally funded research program, the successful candidate will be expected to contribute to the education mission of the University, curate either the Amphibian & Reptile or Invertebrate collection, and help maintain scientific content and accuracy in the museum's outreach programs. A Ph.D. is required and post-doctoral experience is preferred. Bell Museum curators hold tenure in a variety of academic departments across the University and the tenure-home for this position will be determined based on the research focus and potential curricular contributions of the successful applicant. Please send a CV; up to five selected reprints; statements of research, teaching, and curatorial interests; and names and full contact information of three references to Search Committee, Bell Museum of Natural History, 10 Church St. S.E., University of Minnesota, Minneapolis, MN 55455-0104. Applications will be considered beginning 11 November 2005. The University of Minnesota is an equal opportunity educator and employer.

Sharon Jansa Curator of Mammals, Bell Museum of Natural History Assistant Professor, Ecology, Evolution and Behavior University of Minnesota 1987 Upper Buford Circle St. Paul, MN 55108

phone: (612) 624-6293 fax: (612) 624-6777
jansa003@umn.edu

277-0304 FAX turnert@unm.edu

UNewMexico EvolAvianBiol

(This ad to be featured in the 16 September issue in Science)

FACULTY POSITIONS IN ARTHROPOD AND AVIAN BIOLOGY Department of Biology University of New Mexico

The Department of Biology seeks two full-time, tenure track or tenured colleagues in arthropod and avian biology and to serve as Curators of the Bird and Arthropod collections of the Museum of Southwestern Biology (MSB). We seek colleagues who will establish and maintain vigorous, independent research programs, are committed to excellence in teaching at both the undergraduate and graduate levels, and are enthusiastic about joining a broadly-based and collaborative Biology Department and Natural History Museum. The successful applicants should be engaged in collections-based research and have curatorial experience.

Both positions are available at the start of the fall semester, 2006. Successful applicants must have a Ph.D. and preferably post-doctoral experience in a relevant discipline by start date of position. Applicants should submit a cover letter, curriculum vitae and a statement of research and teaching interests, including a vision for the future of collections-based research and of natural history museums such as MSB. Applicants should have at least three letters of recommendation sent to: Chair of Arthropod Biology (Dr. Tom Turner) or Avian Biology (Dr. Joe Cook) Search Committees, UNM Biology Department, MSC03-2020, 1 University of New Mexico, Albuquerque, NM 87131-0001. Preference will be given to Assistant Professors, but hires at the Associate rank will also be considered. Applications must be received by 25 October 2005 for best consideration, but will be considered until position is filled. See <http://biology.unm.edu> or msb.unm.edu for complete job details and additional information.

The University of New Mexico is an equal opportunity/affirmative action employer & educator. Women and underrepresented minorities are encouraged to apply.

Thomas F. Turner Dept. of Biology and Museum of Southwestern Biology MSC 03-2020 University of New Mexico Albuquerque, NM 87131

(505) 277-7541 office (505) 277-4191 laboratory (505)

UTennessee TheoEvol

Faculty Position: Theoretical Ecology and/or Evolution

The Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville, seeks to fill a tenure-track position in theoretical computational ecology and/or evolution at the Assistant or Associate Professor level, to start August 1, 2006. Attractive research areas include complex ecological or evolutionary systems, problems at multiple spatial scales, and analysis of evolutionary and ecological data at broad spatial or temporal extent. Teaching will include courses in theoretical ecology or evolution.

For information about department visit eeb.bio.utk.edu. Candidates should apply to Dr. Sergey Gavrilets, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN 37996. Applicants should send a CV, statements of research and teaching goals, up to 5 reprints, and arrange for three reference letters to be submitted. Applications will be reviewed beginning September 30, 2005.

The university welcomes and honors people of all races, creeds, cultures, and sexual orientations, and values intellectual curiosity, pursuit of knowledge, and academic freedom and integrity.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

Marguerite A. Butler Department of Ecology and Evolutionary Biology University of Tennessee 569 Dabney Hall Knoxville, TN 37996-1610

Phone: 865-974-7894 Lab: 865-946-1764 FAX: 865-974-3067 <http://eeb.bio.utk.edu/pages/faculty/butler.htm>
<http://eeb.bio.utk.edu/pages/faculty/butler.htm>

UTexasArlington 4 EvolBiol

FOUR JOBS AT THE UNIVERSITY OF TEXAS AT ARLINGTON: EVOLUTIONARY GENOMICS, BIOINFORMATICS, MICROBIOLOGY, & CELL BIOLOGY

The Department of Biology at the University of Texas at Arlington seeks two genomicists/bioinformaticists, one microbiologist, and one cell biologist to contribute to active research groups in these areas. We are very interested in candidates whose research is at the interface of genetics or genomics, and evolution or ecology. Salaries and start-ups will be highly competitive. The Department offers both M.S. and Ph.D. degrees, and the majority of our graduate students (about 70 in total) conduct research in evolution and ecology. The Department is very research-oriented, is well equipped for molecular work with a major expansion in this area (new labs and state-of-the-art equipment, including core sequencing and microarray facilities), has an extensive, newly constructed animal care facility, and offers ample laboratory space. UTA is the second-largest and fastest-growing component of the University of Texas system, with approximately 26,000 students, about 1,400 of whom are undergraduate Biology majors.

Arlington is a medium-sized city of about 300,000, located midway between Dallas and Fort Worth. It has a wide diversity of neighborhoods and housing styles, is extremely safe and family-friendly, and the cost of living is very low relative to the vast majority of comparable metropolitan areas in North America. Arlington lies at the center of the Dallas/Fort Worth metroplex, about a 20 minute drive from DFW International Airport, 20 minutes from downtown Fort Worth, and 30 minutes from downtown Dallas. Dallas and Fort Worth each have very distinct characters; both are vibrant cities that offer extensive cultural and recreational opportunities.

The following ad for these positions will appear online in Science shortly.

FOUR POSITIONS IN GENOMICS/BIOINFORMATICS, MICROBIOLOGY, & CELL BIOLOGY

The University of Texas at Arlington

The Department of Biology at The University of Texas at Arlington invites applications for four tenure-track positions at the rank of Assistant Professor. We seek:

Two genomicists/bioinformaticists to contribute to the departments growing strength in this area. Research interests may include population, evolutionary or ecological genetics/genomics; quantitative or developmental genetics; gene expression and regulation; and related

areas.

Send applications to: Dr. James Robinson, Chair of Genomics/Bioinformatics Search Department of Biology, University of Texas at Arlington, Box 19498 Arlington, Texas 76019-0498

One microbiologist to complement existing programmatic needs. Research interests may include genetic and/or molecular dynamics of pathogenesis, cell structure/function, biotechnology/bioremediation or microbial diversity.

One cell biologist. Research interests may include mechanisms underlying the physiology of eukaryotes or prokaryotes, with emphasis on understanding function at multiple levels (e.g., molecular, genetic, cellular, organismal and/or developmental processes).

Send Applications to: Dr. Dan Formanowicz, Chair of Micro/Cell Biology Search Department of Biology, University of Texas at Arlington, Box 19498 Arlington, Texas 76019-0498

Applicants must have a PhD and a demonstrated record of research productivity commensurate with their experience. The successful candidates will be expected to establish vigorous, extramurally funded research programs and participate in both graduate and undergraduate biology. Located in the Dallas/Fort Worth metropolitan area, UTA is a fast-growing, comprehensive university in The University of Texas System. Hiring will be contingent on the completion of a satisfactory criminal background investigation for security sensitive positions. Additional information is available at the website: <http://www.uta.edu/biology/>. Applicants should submit curriculum vitae with a cover letter clearly indicating the position(s) for which they are applying; copies of up to five significant publications; statements of research and teaching interests and philosophy; and the names, e-mail addresses, and telephone numbers of four persons who can provide letters of reference. Review of completed applications will begin October 8, 2005, and will continue until the positions are filled.

UTA is an Equal Opportunity/Affirmative Action Employer.

Paul Chippindale

esosorum@sbcglobal.net

The Department of Life Sciences, University of Toronto at Scarborough, invites applications for a tenure stream position in Genomics & Population Genetics. The appointment will be at the rank of Assistant Professor. Applicants must have a PhD, and at least one year of postdoctoral experience. The successful candidate must have experience with a battery of current techniques, and must be pursuing questions relating to genome or protein structure and evolution, quantitative trait loci and their role in resistance to disease and other environmental stresses, or other important questions in Population Genetics. Clear evidence of potential to establish a strong, independent, externally-funded research program is requisite. The candidate should have a commitment to excellence in teaching and will teach a course in Genomics and in their specialization. For further information on the research and teaching strengths of our Department, please consult the departmental website <http://www.utsc.utoronto.ca/~lifesci>. Interested applicants should submit a complete vita (that should include individual statements of research and teaching interests) and a copy of recent reprints, and arrange to have three letters of recommendation (including comments on teaching ability, publications, and research activity) sent from referees. All materials should be addressed to: Professor John M. Kennedy FRSC, Chair, Search Committee, Department of Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Scarborough, Ontario, Canada, M1C 1A4 and to persaud@utsc.utoronto.ca. The closing date for applications is October 31, 2005. Salary will be commensurate with qualifications. The position will be effective July 1, 2006. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Nate Lovejoy <lovejoy@utsc.utoronto.ca>

UTuebingen TheoBiol

(Re-advertisement)

Theoretical biologist (2 + 4 years).

We have a research associate position (German pay

scale W1) for 2+4 years (assuming positive evaluation after 2 years).

We are looking for an expert in the use of bio-mathematical tools in research and teaching, particularly in the analysis of evolutionary principles. Experience with analytical and simulation approaches on a widely accepted platform (e.g. C++, MatLab). Candidate that integrate well in our current research fields will be preferred. The latter deal with sexual conflict, sex allocation and gender expression.

Prerequisites for application are a Ph.D., international experience and papers in peer-reviewed journals in evolutionary biology. Teaching load is 4 hours per week during term (15 + 12 weeks per annum). Fluency in English is a necessity. Good knowledge of German is an advantage. Teaching will be (largely) in English.

Disabled candidates will be given preference when qualifications are equivalent. The University Tuebingen would like to increase the proportion of women in academic science and teaching and strongly encourages qualified female scientists to apply.

Send your applications to Prof. Nico Michiels nico.michiels@uni-tuebingen.de. Screening will continue until a suitable candidate is found.

The appointment will be made by the university administration.

Tuebingen is a great place to live. It is one of the oldest University towns in Europe, will much of its historical flair preserved. With 80.000 inhabitants and 20.000 students it is a very cosmopolitan and academic town in a beautiful natural setting.

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

Tel. +49 7071 29 74649 Mobile +49 170 4758003 Fax 07071 29 5634

nico.michiels@uni-tuebingen.de

www.uni-tuebingen.de/evoeco

<nico.michiels@uni-tuebingen.de>

[http://-](http://www.uni-tuebingen.de/evoeco)

Nico Michiels

UWyoming EcolGenetics

FACULTY POSITION IN Ecological Genetics

The Departments of Molecular Biology and Botany

at the University of Wyoming are seeking to fill a joint tenure-track position at the assistant professor level. We seek an interactive colleague with broad interests using innovative genetic or genomic approaches to study ecological questions. We are especially interested in individuals committed to studying ecological genetics in context of community dynamics and/or global change. However, all qualified candidates will be considered. This position is the first of five to be hired into a new, NSF funded interdisciplinary Program in Ecology (<http://uwadmnweb.uwyo.edu/botany/Ecology/>). Candidates must hold a Ph.D. in an appropriate field and have at least 2 years of postdoctoral experience. Evidence of accomplishments in both research and teaching will be essential. The successful candidate will be expected to establish an independently funded research program and participate in both the undergraduate and graduate teaching programs. The new faculty member would be expected to teach a genetics course for one semester and an additional course in his or her specialty area. The Departments are presently composed of 26 faculty members with diverse research interests supported by numerous grants. Salary and start-up packages will be competitive. The University enrolls 12,000 students including approximately 2500 graduate students. Laramie is located in southeastern Wyoming about 120 miles from Denver, Colorado. For additional information about the University and departments, see <http://www.uwyo.edu/ag/molecbio/mobio.html> and <http://www.uwyo.edu/Botany/>. Any questions can be directed to uwmbio@uwyo.edu. Candidates should email a curriculum vitae, descriptions of research plans and teaching philosophy, and three letters of recommendation to uwmbio@uwyo.edu. PDF formatting is preferred for these documents. Screening of applications will begin on November 15, 2005 and continue until a suitable candidate is identified.

The University of Wyoming is an AA/EEO employer.

David Liberles <David.Liberles@bccs.uib.no>

WashingtonStateU ComputBiol

College of Sciences, Washington State University Assistant/Associate/Full Professor Bioinformatics/Computational Biology

Notice of Vacancy Search # 4131

The College of Sciences at Washington State University invites applications for a tenure-track position in Bioinformatics/ Computational Biology to begin August 16, 2006, or later, at the Assistant/Associate/Full Professor level. Applicants must have expertise in the broadly defined fields of bioinformatics or computational biology. Areas of research interest can include any effort to bring mathematical or computational approaches to bear on important questions in biology. These may include development of data- analytical, theoretical, or computational approaches for interpreting biological data, mathematical models or computational techniques; or quantitative strategies for integrating diverse types of biological information and developing higher-level understanding of complex systems. Successful candidates will be expected to develop and maintain a vigorous research program supported by extramural funding, train graduate students, and participate in graduate and undergraduate teaching.

Required qualifications: Earned doctorate at time of application and a record of research accomplishment in bioinformatics or computational biology.

Desired qualifications: Postdoctoral experience in bioinformatics or computational biology; ability to communicate effectively with both students and colleagues; a record that indicates outstanding abilities and potential in research

Formal screening of application will begin on October 28, 2005 and will continue until filled. Send a letter of application addressing qualifications, curriculum vitae, statements of research and teaching interests, and the names of at least four referees to:

Bioinformatics/Computational Biology Search Committee c/o Chris Booker College of Sciences P.O. Box 643520 Pullman, WA 99164-3520 bookerc@wsu.edu (509) 335-5548 FAX: (509) 335-3295

Full notice of vacancy can be viewed at <http://www.hrs.wsu.edu/employment/FAPvacancies.asp?id46>. EEO/AA/ADA

– Richard Gomulkiewicz gomulki@wsu.edu PHONE: (509) 335-2527 FAX: (509) 335-3184 <http://www.wsu.edu/~gomulki/> Department of Mathematics; P.O. Box 643113 or School of Biological Sciences; P.O. Box 644236 Washington State University Pullman, WA 99164 USA

– Richard Gomulkiewicz gomulki@wsu.edu PHONE: (509) 335-2527 FAX: (509) 335-3184 <http://www.wsu.edu/~gomulki/> Department of Mathematics; P.O. Box 643113 or School of Biological Sciences; P.O. Box 644236 Washington State University Pullman, WA 99164 USA

WesternWashingtonU EvolutionaryBotany

Plant Biologist: The Biology Department at Western Washington University invites applications for a tenure track, assistant professor position, beginning September 2006. We seek individuals who are committed to undergraduate and masters student education and who will establish vigorous research programs that involve students. Ph.D. and postdoctoral experience in plant organismal biology are required. A broadly trained plant scientist studying the interactions between ecological and evolutionary forces that shape plant form and function is preferred. The applicant must provide evidence of the ability to teach plant systematics and local flora, as well as introductory and advanced courses in plant organismal biology. (Priority

Review Date: 11/11/05) See full position announcement, including all required qualifications, at <http://-biol.wwu.edu/biology/>. To apply, please submit curriculum vitae, statements of teaching and research interests, and three letters of reference. All materials should be sent to the attention of Dr. Jeffery Young, Chair: Plant Biologist Search Committee, Biology Department, Western Washington University, 516 High St., Bellingham, WA 98225-9160. AA/EOE –

Jeffery C. Young Biology Department Western Washington University Bellingham, WA 98225-9160 Phone: 360-650-3638 FAX: 360-650-3148 <http://-www.biol.wwu.edu/young/younglab.html> Jeff Young <young@fire.biol.wwu.edu>

Other

ABI AFLPs	45	Isolation distance altitude answers	54
AFLP-ABI answers	45	Katrina SELouisianaU	56
Arlequin question	46	Katrina displaced from Maritimes	56
Band purification	46	Katrina help from Dartmouth	56
Band purification answers	46	Louisiana news	56
Bootstrapping micros answers	47	Masking pheromones	56
Cleaning capillars answers	48	MolecularClocks answers	57
DNA from caviar	49	PCRbands fading	58
Drosophila BAC libraries	49	Pairwise theta rho	58
Drosophila isolines	50	Partial diallel question	59
Drosophila stocks 2	50	PeerReview bias	59
Evol bibliography	50	Phenylalanine decarboxylase source	59
EvolBiol in Europe	51	R package tree imbalance	59
Extraction kit	51	Reamplify MDEgels	60
Extraction kit 2	51	Screening micros	60
EyeReduction paper	51	Software CLC FreeWorkbench 1 01	60
Fig FigWasp samples	52	Subtractive Supressive Hybridization answer	61
Floral Emasculation	52	USanFrancisco Help	61
Fluorescent Minisatellites	52	Unnamed Conference location	61
Guppy Sex	53	VisitingFellowships ConGen	61
HarvardU EvolBiol Fellowships	53	Vistra725 SpareParts	62
Help displaced scientists	54	Website forIDvsEvol	62
Help from ETSU for those in Louisiana	54	World Grass Species Databases	63
Hurricane refugee housing	54		
Isolation distance altitude	54		

ABI AFLPs

Hi all, I have been running AFLP's in polyacrilamide gels in an ABI 377 machine, but recently I have just moved to a new lab where they have an ABI 3130 capillary system. No one in the lab have ever used the capillary machine for AFLP's analysis. So we don't have a protocol of how to prepare the samples (how much DNA, how much formamide, etc). Could any one running AFLPs in capillary systems send me their protocols, and/or gave me any useful advice? (what to do with the +3 or final amplification solution before loading it to the machine). I also was wondering how comparables will fingerprints runs in ABI 377 to the ones runs in the capillary system? Or do I have to re-run everything again in the new machine? Thanks a lot for any help in this regard Cheers Eloisa

Eloisa Lasso De Paulis Ph.D.candidate University of Illinois, Champaign-Urbana Department of Plant Biology, 265 Morrill Hall 505 S. Goodwin Ave. Urbana, IL 61801 Tel: (217) 2448914 Fax: (217) 2447246 email: elasso@uiuc.edu

AFLP-ABI answers

Dear All, Thank you, to all of you who responded to my query regarding how to proceed if switching from a ABI 377 to a capillary sequencer. Here are all responses to my question and the result of my own experience running a first set of samples this week.

My comments: I used 10um formamide, 0.3 Rox and 0.8 of the +3 solution. I first tried with 0.2 and 0.5 ROX and both of them work, but in some cases when using 0.2 ROX I had a bit fainted signal. So I am using 0.3 and so far is good. I also tried cleaning half of my samples with sephadex before the run, but it didn't make any difference in terms of the fingerprint signal. However, some people said that doing it may prolong the life of the capillary.

I also have another question for people with a lot of experience scoring peaks. How do you decide what intensity of the peak to use to decide that a peak is actually a real fragment?

And

I am trying to decide how many primer combs to use for my study (cost/informative) and I was wondering how many polymorphic loci is enough to have reliable results? In my case I am interested in identifying clones so probably I need more. Any advice? Thanks a lot again Cheers Eloisa

Answers:

Message 1)

Right now I use capillary sequencer ABI 3100 for AFLP. To load samples on a sequencer we dilute the product of selective PCR. Some people do Sephadex cleaning of the PCR product before they combine it with formamide and Rox. They suggest that by running cleaner sample you extend life span of the capillary array, but we don't do it.

Our protocol: -dilute a product of selective PCR with pure water (dilution depends on the species but usually we use 20x dilution) -prepare a mixture of Rox and formamide for n number of samples: n x 10 ul Formamide + n x 0.1 GeneScan Rox 500 -combine 1ul of diluted PCR product with 10ul Rox/formamide mix -denaturate 2 min at 92 degrees -cool down on ice -load the samples to sequencer

And about the comparison of results from capillary sequencers and ABI 377 In the previous project I had a chance to compare microsatellite patterns on ABI 377 and old capillary ABI 310. I even run PCRs in 2 different labs, run ABI and I got almost identical profiles. Small differences appeared to be due to taking peak 250bp in Rox to sizing in one lab but not in the other! You have to be more careful with AFLP because there are many more bands but I don't expect many differences in AFLP profiles from both sequencers due to electrophoresis alone. In the profiles from ABI 377 sometimes you can observe overflow from the neighboring lanes if you don't load carefully. There is of course no overflow in the capillary sequencer. Generally, the profiles should be comparable if the only thing you change is the sequencer (moving to the new lab you may have changed also PCR reagents, PCR machines etc etc). The best way to test it is to take the same PCR product and run it on both sequencers. I wouldn't rerun everything at once, just test few samples first.

Good luck! Regards,

Grazyna

Dr Grazyna Korbecka Institute of Botany Polish Academy of Sciences Lubicz 46, 31-512 Krakow Poland

Message 2) We use a bog standard AFLP kit from Gibco and buy the fluorophore as a custom primer. This is much more cost effective than buying ABI kits.

I load 1ul AFLP amplification (1/4 dilution max if you use G5 dye set)suspended in 9ul HIDI and 20ul per 900ul GS500LIZ or ROX ladder depending on which dye set you run. I'm afraid I don't know how comparable the traces are but I guess you'll be able to compare the fingerprints and they'll be no more than a 2bp shift. Hope this helps Jake Message 3)

I am also in the process of swapping from running AFLPS on an ABI377 to the ABI3130. So far I've had a few teething problems so I would be very interested in the responses you get to your email - could you post them on evoldir or forward a summary to me?

I use three selective primer pairs that are each labelled with a different dye (FAM, VIC, NED) which I run in the same lane. I make up a mix using 1ul of each of the final amp PCR products (ie 1ul FAM, 1ul VIC, 1ul NED products) then use 0.5ul of this mix with 0.5ul of size standard and 9ul of formamide to be run on the machine. (The ABI size standards are expensive so I dilute the size standard 1:5 in formamide to make it last longer - I've also heard people dilute it 1:10 but I think this is maybe too much). One of the problems that I have been having is that when my products are too strong, the capillary is unable to load the sample properly and I only get fragments up to ~150bp coming through (I should have products to ~400bp) so I need to have a play around with diluting my pcr products.

As for comparing genotypes from the 377, I've only just worked out how to get these samples into Genemapper (the software ABI supply with the machine to analyse samples) and I haven't as yet been able to compare the profiles. I'm

— / —

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>

Arlequin question

I also have a question about Arlequin. Does anyone know how to get Arlequin to recognize that you have shared haplotypes between different populations of sequence data? I've entered each mtDNA sequence with its frequency, but when Arlequin lists the haplotype information from each population, it doesn't recognize that any of the haplotypes are shared. Thanks, Amy Non University of Florida

Amy Non <anon@ufl.edu>

Band purification

Dear all, just a trivial question. We are experiencing difficulties to obtain good sequences from gel purified bands when using ABI sequencers, possibly due to carry over of contaminants, that result in very high background. Can somebody give me some hints about which protocol to use? Thanks in advance. Lorenzo Zane lorenz@civ.bio.unipd.it

Dipartimento di Biologia Università di Padova via G. Colombo 3 I-35121 Padova Italy

phone: +39 049 8276250 +39 049 8276222 fax: +39 049 8276209

Band purification answers

Dear all, here find the answers that I got to my question about how to purify bands from agarose gels for sequencing on ABI machines.

Original message was: Dear all, just a trivial question. We are experiencing difficulties to obtain good sequences from gel purified bands when using ABI sequencers, possibly due to carry over of contaminants, that result in very high background. Can somebody give me some hints about which protocol to use? Thanks in advance.

It seem that many persons did not have any particular problem with band purification, and suggested the use of the following commercial kits.

- 1.- "You can use Agarose Newseave (low melting) for running your PCR product. Then you can use gelase enzyme. After this you could use the MONTAGE-PCR column (Millipore). This will remove the potential inhibitors. This will be your DNA template for using at BigDye PCR."
- 2.- "You can use Agarose (normal melting) for your PCR fragment. Then purified with GFX Kit (Amersham). And this will be your DNA template for BD."
- 3.- Qiagene columns (3 hits).
- 4.- "I have always had good results with centrisep columns from Princeton Separations. They are spin columns that are very easy to use. They cost about \$2.00 (US)

per column. ” 5.- “We use Promega’s ”Wizard SV gel and PCR kits“, (then with BigDye v3.1, and run on an ABI-3100) with good results. I’ve always also had good results with Qiagen kits too. ”

I also had several message reporting troubles, and the following suggestions: First, it seems that re-amplification of excised bands using PCR and/or rerunning the sequencing reaction, can fix the problem. Second, two people pointed out that the problem could be at the sequence purification stage, and suggested careful purification of sequence before loading using Sephadex, or taking care to remove all ethanol before loading if using alcohol precipitation. Finally, it is suggested to be careful with high frequency wavelength UV irradiation that can damage the DNA product of your PCR and result in poor sequencing.

Thanks to all. Lorenzo Zane

Dipartimento di Biologia Università di Padova via G. Colombo 3 I-35121 Padova Italy

phone: +39 049 8276250 +39 049 8276222 fax: +39 049 8276209

Bootstrapping micros answers

Dear All,

Thank you very much for the many replies to my question on bootstrapping over individual msat genotypes.

Several people wisely advised me against forcing untreelike data into a tree and I have been getting low bootstrap support at most nodes connecting individuals. Their full explanations are below the summary of “methods” advice that I also received.

Software and Methods: POPULATIONS by Oliver Langella (suggested by Steven Weiss, Miguel Angel and Daniel Heath)

IDENTIX (suggested by Francois Bonhomme)

Microsatellite Analyzer (http://i122server.vu-wien.ac.at/MSA/MSA_download.html) (suggested by Christian Schlötterer)

SPAGeDi (Hardy & Vekemas 2002 Molecular Ecology Notes, 2:618-620) PAPA <http://www.bio.ulaval.ca/-contenu-fra/professeurs/prof-l-bernatchez.html> (both suggested by Cristina García)

Microsat 1.8 to obtain the distance matrices and then run the resulting bootstrapped distances on Phylip. The

program consensus gives you a consensus tree with bootstrap values. (suggested by Joana Morais)

>From Ella Vazquez evazquez@ecologia.unam.mx: “assignment tests” (Paetkau’s, Pritchard’s) which allows to resolve relatedness of individuals using microsatellites. See: - Pritchard JK, Stephens M, Donnelly P (2000) Inference of population structure using multilocus genotype data. *Genetics*, 155, 945-959 - Paetkau D, Calvert W, Stirling I, Strobeck, C (1995) Microsatellite analysis of population structure in Canadian polar bears. *Molecular Ecology*, 4, 347-354. - Vázquez-Domínguez E, Paetkau D, Tucker N, Hinten G, Moritz C (2001) Resolution of natural groups using iterative assignment tests: an example from two species of Australian native rats (*Rattus*). *Molecular Ecology*, 10, 2069-2078. among others.

Advice against the concept of bootstrapping for single populations: The individual animals have a pedigree. It is not necessarily treelike (for example, you have two parents, not just one). I would raise the question of whether using trees for this is the right thing to do.

Joe Felsenstein joe@gs.washington.edu Department of Genome Sciences and Department of Biology, University of Washington, Box 357730, Seattle, WA 98195-7730 USA

I would question the value of bootstrap values for a single population analyses. Nonetheless, a matrix of shared allele distances, or any other distance that can be calculated at the individual level (many msat distances can not) can be used as some kind of surrogate for a relatedness index.

Steven Weiss Dr. Karl-Franzens University of Graz Institute of Zoology Universitätsplatz 2 A-8010 Graz E-mail: steven.weiss@uni-graz.at

hmmm. you might have trouble interpreting results from a tree. if the pop is inbreeding, there will likely be very low bootstrap support for nodes connecting individuals. for my stuff, i have very well separated groups, and still get fairly low bootstrap support (50-60%) even for interpop groups, and within pops, nodes are completely unsupported. trees really are very poor ways to interpret msat data, particularly within pops, because they are inherently bad at dealing with gene flow. what exactly are you trying to get at by making a tree? there may be a more appropriate method...most PIDs should take into account uncertainty in the estimates...

Jeffrey Lozier Graduate Researcher University of California, Berkeley Environmental Science, Policy, and Management Division of Insect Biology

unless you have a really special reason for wanting to do this, I would not do what you are suggesting at all. You will be forcing obviously non-dichotomous data into a dichotomous visual presentation.

Dr Paul Sunnucks Senior Lecturer in Zoology School of Biological Sciences Monash University, Melbourne Clayton Campus 3800 Victoria Australia ph + 61 3 9905 9593 fax + 61 3 9905 5613

– Wenfei Tong Harvard University Museum of Comparative Zoology 26 Oxford Street Cambridge, MA 02138 USA

wenfei.tong@gmail.com

Cleaning capillars answers

I wrote to evoldir some weeks ago asking about tips for prolonging the life of capillars in ABI3100 machines. Here is a compilation of the responses sent to me. Thank you very much to all who replied.

Cheers, Pablo Orozco

What we usually do is to run a spatial calibration making sure that we select the option “fill out” in the spatial calibration screen. Though, if the capillary has been in storage for too long and the storage buffer has dried out or was not add to protect the capillary, that array might be damage already due to dry polymer inside it. Remember to change the anode buffer and the array buffer after you do the procedure. Ricardo

“Ricardo Guerrero” <ricardo@nmsu.edu>

We always flush the capillaries with clean polymer before running a plate, especially if the machine has sat for more than 12 hours without running.

It's: Instrument >manual control >capillaries >fill.

It seems polymer crystals are the primary reason for degraded sequences. I don't know how you would flush with buffer... I would stick with fresh polymer.

Cheers, David Hamm Dept. of Genome Sciences University of Washington

Dear Pablo: What we usually do is run a Water run every once in a while, that is supposed to extend the life of the capillaries. In any case we usually make them

last a lot more than the recommended 100 runs. Good luck, Andrea

Andrea Sequeira Assistant Professor Department of Biological Sciences Wellesley College Wellesley, MA 02481

————— Theoretically you can clean the capillars, but we never tried it before. They (not Applied Biosystems) say that you can clean it with NaOH liquid, but I don't know about the concentration. I would like to try it one day with ClNaO 2% (SodiumHypoChlorid), that's the detergent we are oxidating the plates with, to reload them again on the mashine.

Do you know you can regenerate your ABI capillary if it goes bad? Introducing....

BIOTAQ's ABI Capillary Regeneration Reagent

If you are using ABI's capillary electrophoresis systems (ABI 310, ABI 3100 & ABI 3730) for DNA sequencing or fragment analysis, chances are after 300 injections, the capillary will be most likely going bad. Usually as the number of injections performed on the ABI's capillary, the resolution and the signal intensity resulting from the capillary will decline. This is primarily due to the adsorption of proteins to the wall of the fused silica capillary.

The resolution for the fragments and peak intensity can be improved or restored by regenerating the capillaries. The regeneration procedure washes the capillaries with regeneration reagent. This cleaves the proteins into smaller fragments, reducing the number of attractive forces per protein molecule, and therefore reducing the force with which each molecule binds to the wall of the capillary. The proteins are then more easily washed away from the capillary walls. This procedure doesn't apply to the capillaries that are irreversibly blocked, these capillaries will not be restored by the regeneration procedures.

BIOTAQ's proprietary capillary regeneration reagent will allow you to regenerate your bad capillary within 5 minutes, it is simple to use and all you need to do is to rinse the capillary with this reagent, your newly regenerated capillary is ready for another 1000 more injections, which will save you lots of money for the capillary, and what is more is You can regenerate your capillary for up to three times!

If you are interested in trying our regeneration reagent, please contact us at services@biotaq.net or visit the following site for ordering information:

<http://www.biotaq.com/onsale/ABI310capillary.htm>

Related Products:

Unbeatable Price For Bare fused silica capillary tubing For Capillary Electrophoresis:

<http://www.biotaq.com/onsale/capillary.htm> US\$ 25 for High Performance ABI 310 Capillary (one capillary of 47cm):

<http://www.biotaq.com/onsale/ABI310capillary.htm>

BIOTAQ.COM INC / 13 East Deer Park Dr., Suite D, Gaithersburg, MD 20877

Dear Pablo,

We have good result with prolonging the life-span of capillary-arrays on our 3100 instruments by injecting 6-12 injections of clean formamide

— / —

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>

DNA from caviar

i am working in international sturgeon research institue of iran .i am working for extract of dna from the caviar sturgeon but with usal method i cant reach good response(good dna) .if is there any body who work a bout extract of dna please help me.thank you for your coopration , i wish you goood luck,good health,and God bless you.

Fereidoon Chakmehdouz
<chakmehdouz13@yahoo.com>

Drosophila BAC libraries

Drosophila species BAC libraries are available from Arizona Genomics Institute:

D. mercatorum: <http://www.genome.arizona.edu/orders/direct.html?library=DM__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DM__Ba
D. novamexicana: <<http://www.genome.arizona.edu/orders/direct.html?library=>

DN__Ba> http://www.genome.arizona.edu/orders/-direct.html?library=DN__Ba D. persimilis: <http://www.genome.arizona.edu/orders/direct.html?library=DP__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DP__Ba Drosophila sechellia <http://www.genome.arizona.edu/orders/direct.html?library=DS__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DS__Ba Drosophila virilis <http://www.genome.arizona.edu/orders/direct.html?library=DV_VBa> http://www.genome.arizona.edu/orders/direct.html?library=DV_VBa Drosophila willistoni <http://www.genome.arizona.edu/orders/direct.html?library=DW__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DW__Ba Drosophila yakuba <http://www.genome.arizona.edu/orders/direct.html?library=DY__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DY__Ba Drosophila americana <http://www.genome.arizona.edu/orders/direct.html?library=DA__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DA__Ba

Drosophila ananassae <http://www.genome.arizona.edu/orders/-direct.html?library=DA__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DA__Ba

Drosophila erecta <http://www.genome.arizona.edu/orders/direct.html?library=DE_TBa> http://www.genome.arizona.edu/orders/direct.html?library=DE_TBa

Drosophila grimshawi <http://www.genome.arizona.edu/orders/direct.html?library=DG__Ba> http://www.genome.arizona.edu/orders/direct.html?library=DG__Ba Drosophila mojavensis <http://www.genome.arizona.edu/orders/direct.html?library=DM_CBa> http://www.genome.arizona.edu/orders/direct.html?library=DM_CBa

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
tmarkow@arl.arizona.edu http://cis.arl.arizona.edu/-markow_lab/

Teri Markow <tmarkow@public.arl.arizona.edu>

Drosophila isolines

NEW DROSOPHILA SPECIES ISOFEMALE LINES

The Tucson Drosophila Species Stock Center has just received new Drosophila isofemale lines from the states of Hidalgo and San Luis Potosi in eastern central Mexico. Collection dates are 8/6-10/2005, from Bryant McAllister and Therese Markow. These isofemale lines will be available until November 30, 2005:

Drosophila melanogaster:

14 isofemale lines from Huejutla, San Luis Potosi.

13 isofemale lines from Vinasco, Hidalgo.

8 isofemale lines from San Luis Potosi, San Luis Potosi.

2 isofemale lines from Zacuatlipan, Hidalgo.

4 isofemale lines from Meztitlan, Hidalgo.

Drosophila simulans:

19 isofemale lines from Zacuatlipan, Hidalgo.

10 isofemale lines from Meztitlan, Hidalgo.

7 isofemale lines from San Luis Potosi, San Luis Potosi.

To order contact Dr. Stacy Mazzalupo, Manager, Tucson Stock Center

At smm@email.arizona.edu

<http://stockcenter.arl.arizona.edu/>

Teri Markow <tmarkow@public.arl.arizona.edu>

Drosophila stocks 2

*** SEQUENCING PROJECT STOCKS *** The following stocks, used in the whole genome sequencing and BAC library projects, are available from the Tucson Stock center. (<http://stockcenter.arl.arizona.edu/sequences.php3>)

SPECIES STOCK NUMBER STATUS Whole Genome Sequence (WGS) D. ananassae 14024-0371.13 Complete D. erecta 14021-0224.01 Complete D. grimshawi 15287-2541.00 Complete D. melanogaster 14021-0231.36 Complete D. mojavensis 15081-1352.22 Complete D. persim-

ilis 14011-0111.49 Complete D. pseudoobscura 14011-0121.94 Complete D. sechellia 14021-0248.25 Complete D. simulans 14021-0251.194 Complete (1X coverage) D. simulans 14021-0251.195 Complete (4X coverage) D. simulans 14021-0251.196 Complete (1X coverage) D. simulans 14021-0251.197 Complete (1X coverage) D. simulans 14021-0251.198 Complete (1X coverage) D. willistoni 14030-0811.24 Complete D. virilis 15010-1051.87 Complete D. yakuba 14021-0261.01 Complete

BAC library only D. americana 15010-0951.15 Complete D. equinoxialis 14030-0741.02 In process D. hydei 15085-1641.58 In process D. littoralis 15010-1001.11 In process D. mercatorum 15082-1521.36 Complete D. novamexicana 15010-1031.14 Complete D. repleta 15084-1611.10 In process D. albomicans On hold

Stacy Mazzalupo <smm@email.arizona.edu>

Evol bibliography

A few years ago I introduced a big downloadable bibliography of about 10,000 references on evolutionary biology, ecological genetics and population genetics. It has accumulated over many years as an aid to research, and to help a book on frequency-dependent selection for the Oxford University Press. It struck me that others might find the bibliography useful.

I have now updated it (to about 12,000 references). The bibliography is potentially valuable to others because it includes many references to papers written before computer searches became established. The files have the advantage over the Web of Science (or Google Scholar) in that they go back before the 1980s, they are much faster to obtain, and they have already been winnowed for their evolutionary interest. Many of the recent references have abstracts attached.

Please note that the bibliography contains errors and duplications, and offers no guarantees of accuracy. You should always check any reference against the original publication before quoting it.

The bibliography can be downloaded at <http://www.nottingham.ac.uk/biology/contact/academics/-clarke/special.phtml?from=peg&G=&R=1&T=&P=-1&S=The+Big+Bibliography&St=&m1=&m2=-&ID=32>

Bryan Clarke Institute of Genetics Queens Medical Centre Clifton Boulevard Nottingham NG7 2UH

Tel: +44-115-970-9397 Fax: +44-115-970-9906
Bryan Clarke <bryan.clarke@nottingham.ac.uk>

EvolBiol in Europe

This is certainly an exciting moment for Evolutionary Biology in Europe. The European Society for Evolutionary Biology conference, in Krakow, Poland, was very well attended, with a record 1,100 participants. And there are two new national societies for Evolutionary Biology.

Congratulations and best wishes to the new Italian Society for Evolutionary Biology <http://web.unife.it/-progetti/genetica/CongBiolEvol/>

The founding conference of the Spanish Society for Evolutionary Biology will take place on 22-23- September 2005, in Granada Spain <http://www.sesbe.org/> In Portugal, we have taken a first step to network Portuguese evolutionary biologists, in Portugal and abroad, by creating an electronic forum to discuss science and organize a National Conference on Evolutionary Biology. To join the forum, please visit <http://groups.google.com/group/biologia.evolutiva/> –

André Levy Unidade Eco-Etológica Instituto Superior de Psicologia Aplicada (ISPA) R. do Jardim do Tabaco, 34 1149-041 Lisbon PORTUGAL <http://pwp.netcabo.pt/andrelevy/> andrelevy@gmail.com

Extraction kit

Hi Evoldir-members,

In order to keep our extraction costs at an economic level when running an extraction robot, we are currently searching for cheap and easy to use extraction kits (for automated use!). One possibility we are considering is to duplicate the NucleoSpin tissue kit in our lab, but we are unable to obtain information on the buffer reagents and their concentrations. Does anyone use such a protocol or have useful suggestions?

Helpful suggestions are welcome at: martin.koch@uni-graz.at

Thanks to everyone

Martin

– Mag. Koch Martin Department of Zoology University of Graz Universitätsplatz 2 8010 Graz Tel.: +43 0316 8756

Extraction kit 2

Sorry, last time my e-mail address was wrong: here again....

Hi Evoldir-members,

In order to keep our extraction costs at an economic level when running an extraction robot, we are currently searching for cheap and easy to use extraction kits (for automated use!). One possibility we are considering is to duplicate the NucleoSpin tissue kit in our lab, but we are unable to obtain information on the buffer reagents and their concentrations. Does anyone use such a protocol or have useful suggestions?

Helpful suggestions are welcome at: martin.koch@uni-graz.at

Thanks to everyone

Martin

– Mag. Koch Martin Department of Zoology University of Graz Universitätsplatz 2 8010 Graz Tel.: +43 0316 8756 martin.koch@uni-graz.at martin.koch@uni-graz.at

EyeReduction paper

I recently read a paper on lines of *Drosophila* that had been kept in the lab for many years, and showed over that time a slight but significant reduction in eye size, attributed to the possibility that lab-reared flies don't need acute vision and selection diverted resources from eyes to other features. I can't seem to remember where the paper appeared—can anyone enlighten me?

Thanks, Jerry Coyne j-coyne@uchicago.edu

Jerry Coyne <j-coyne@uchicago.edu>

Fig FigWasp samples

Dear all,

We have *Ficus montana* and *Ficus septica* (around 300 individuals per species) dried leaves and seeds preserved from the following locations: Indonesian Java, Sumatra, and Krakatau islands. Also, pollinators and non-pollinators (fig wasps) of these two plant species are preserved in 96% ethanol. For some of the pollinator individuals from the above locations and from the glasshouse population extracted DNA is available. All field material was collected in spring 2001 (glasshouse material in 2002 and 2003), documentation about the locations is kept and it is suitable for DNA extractions/analyses.

I am afraid, we do not anticipate to work with this material shortly and do not have facilities for long-term storage. I would be happy if this collected material will be used for further research and therefore, I am offering you this material. If you (or anyone who you know) are interested, please contact me as soon as possible.

Monika

—

Monika Zavodna, Ph.D. Netherlands Institute of Ecology Centre for Terrestrial Ecology P.O.Box 40 6666 ZG Heteren The Netherlands phone: +31 26 4791259 fax: +31 26 4723227 email: m.zavodna@nioo.knaw.nl <mailto:m.zavodna@nioo.knaw.nl>

M.Zavodna@nioo.knaw.nl

Floral Emasculation

Dear Member of Evoldir,

I'm writing a book chapter on REPRODUCTIVE ASSURANCE AND THE EVOLUTION OF UNIPARENTAL REPRODUCTION IN FLOWERING PLANTS, and am in the process of rounding up published and unpublished data from natural plant populations on fruit and seed set by intact versus emasculated flowers (i.e. flowers that have had their anthers removed to eliminate autogamous self-pollination).

If you have conducted an emasculation experiment of this sort, I would love to include your results in my review. The data will be collated in a table and figures. Your data would only be used in this review, and you would be duly acknowledged.

If you would like to let me use your data, I need the following information for EACH population you manipulated.

Species Pollinator(s) Study area Specific study population name Means for each population of: - Mean seed fertility* of intact flowers (with sample size) - Mean seed fertility of emasculated flowers (with sample size) *Fertility might be measured as fruits per flower (i.e. "fruit set"), seeds per fruit, seeds per ovule (i.e. "seed set"), seeds per flower (the product of fruit set and seeds per fruit), or seeds per total ovule (the product of fruit set and seed set). If possible, I would like all these measures of fertility, if available. However, I would be happy to get any data I can (as long as I know what has been measured).

If you can not provide means for each population, then fertility measures for each treatment averaged across populations would still be very useful.

Thank you very much for considering this request, especially during this busy time of year.

Best wishes,

Chris Eckert

Department of Biology Queen's University Kingston, Ontario, K7L 3N6 Canada

Ph 613-533-6158 Fx 613-533-6617 eckertc@biology.queensu.ca

—

Fluorescent Minisatellites

Dear All

We are hoping to run some minisatellites but do not have radioactivity facilities.

I would be grateful if anyone could advise on any alternative methods of visualising minisatellites that are available, and where I might find details of the protocols for these.

Thanks

Tiawanna

Dr Tiawanna Taylor School of Biological and Conservation Sciences University of KwaZulu-Natal Private Bag X01 Scottsville 3209 KwaZulu Natal South Africa

Email: taylor@ukzn.ac.za Tel: +27 (0) 33 260 6032

Tiawanna Taylor <TaylorT@ukzn.ac.za>

Thomas Schlemmermeyer Universidade Estadual de Mato Grosso do Sul (UEMS) Unidade Mundo Novo BR 163, km 20,2; 79980 - 000 Mundo Novo, MS, Brasil

Thomas Schlemmermeyer
<t_schlemmermeyer@hotmail.com>

Guppy Sex

Dear All,

Already as a teenager, I bred aquarium fish (among them guppies [*Poecilia reticulata*]) with great joy, but then I came to study biology, followed by a Ph-d. in entomology.

Only by the study of evolutionary biology, it got possible for me to look through a unified framework for the whole of zoology, which even makes it possible to reconnect to my former teenager guppies.

I now try to conduct simple aquarium experiments with some 3rd and 4th year graduate students. We hope to get Guppies from Brazilian Urban River Ecosystems (I think Guppies are to be found in almost ANY Brazilian city)

A nice website which introduces into some of the fascinating questions which could be studied with urban guppies, is the site "Sex and the Single Guppy":

<http://www.pbs.org/wgbh/evolution/sex/guppy/>

Should you, however, have further suggestions, ideas, or publications about the evolutionary biology (including pop.-genetics) of Guppies (*Poecilia reticulata*), in particular Guppies from Urban ecosystems (as they can be caught with less effort), I would appreciate very much your feedback and your recommendations!

I would also like to know whether the ubiquity of Guppies came about by intensified introductions in order to combat mosquitoes, or whether the Guppies themselves, once introduced into only a few places, managed to reproduce themselves so successfully?

Are there checklists about the world occurrences of Guppies? Have all the color varieties ever been mapped and described comprehensively? Or would such an endeavor be meaningless? Is it correct that the original Guppy distribution was limited to Trinidad only?

etc. etc. etc.

Have a nice day!

HarvardU EvolBiol Fellowships

FELLOWSHIPS

The Radcliffe Institute for Advanced Study at Harvard University awards fully funded fellowships each year. Radcliffe Institute fellowships are designed to support scientists of exceptional promise and demonstrated accomplishment. Scientists, in any field, with a doctorate in the area of the proposed project by December 2004 are eligible to apply. Only scientists who have at least one published article or monograph are eligible to apply.

The stipend amount of \$55,000 is meant to compliment sabbatical leave salaries of faculty members. Fellows receive office space, computers and high speed links, and access to libraries and other resources of Harvard University during the fellowship year, which extends from early September 2006 through June 30, 2007. Residence in the Boston area is required as is participation in the Institute community. Fellows are expected to present their work-in-progress and to attend other fellows' events.

For more information, including lists of present and past fellows, visit our Web site at <<http://www.radcliffe.edu/>>www.radcliffe.edu. Apply on-line or write, call, or e-mail for an application:

Radcliffe Application Office 34 Concord Avenue, Cambridge, MA 02138 617-496-3048 - science@radcliffe.edu - <<http://www.radcliffe.edu/>>www.radcliffe.edu Erik Wm. Linnane Science Program Administrator Radcliffe Institute for Advanced Study Harvard University 38 Concord Avenue Cambridge, MA 02138

Phone: (617) 496-5545 Fax: (617) 496-5299 E-mail: elinnane@radcliffe.edu

Erik Linnane <elinnane@radcliffe.edu>

Help displaced scientists

The Biology Department at Gettysburg College can offer space to a researcher or possibly two (graduate student, post-doc, or other) who needs space to write. We can offer room in an unoccupied laboratory and access to computer / internet use, telephones, library, We will help find housing as necessary.

Contact Veronique Delesalle at Email: delesall@gettysburg.edu or Tel. 717-337-6153

Veronique A. Delesalle Chair of Environmental Studies Department of Biology and Environmental Studies Gettysburg College Gettysburg, PA 17325

Tel. 717-337-6153 Fax 717-337-6157 Email: delesall@gettysburg.edu

delesall@gettysburg.edu

Help from ETSU for those in Louisiana

Many of my colleagues at ETSU are looking for the ways to help biologists displaced by Katrina, in particular to help them keep their research program going. For example, I can offer lab space (and housing) to anyone who needs a Drosophila lab. Most likely the people who really need help are not reading EvolDir or any e-mail right now, but maybe someone knows cell phones of any colleagues in need?

I also know that our University is trying to accomodate displaced students in our classes so they don't miss an entire semester.

–

Lev Yampolsky

Department of Biological Sciences East Tennessee State University Johnson City TN 37614-1710 Phone 423-439-4359 Fax 423-439-5958

Lev Yampolsky <yampolsk@etsu.edu>

Hurricane refugee housing

Dear colleagues, Since there have been a few e-mails posted regarding offers of temporary housing for hurricane refugees, I thought you might be interested in this website sponsored by MoveOn.org Civic Action group:

www.HurricaneHousing.org If you want to open your home to hurricane refugees, you can add your name to the list on this website and you will be contacted if needed.

Cheers, Kathy – Kathleen J. Craft, Ph.D. Department of Biological Sciences Ecology and Evolution Group 845 W.Taylor St. M/C 066 Chicago, IL 60607

kcraft1@uic.edu

Isolation distance altitude

Hey, I have got a question regarding isolation by distance: I am working with microsatellites and want to test, if genetic differentiation is correlated with altitude, but I have read that this might result in artificial outcomes, because there is no theoretical background for the relationship of F_{st} and altitude. Is this true and if yes, how can I deal with this problem in another way?

I would be thankful for suggestions and will post a summary of answers.

Thanks a lot in advance, Conny

– Cornelya Klütsch ZFMK- Zoologisches Forschungsinstitut und Museum Alexander Koenig Adenauerallee 160 53113 Bonn Germany Tel.: 49- 228-9122-242 Fax: 49- 228-9122-212 Mail: cornelya@freenet.de

Isolation distance altitude answers

Dear All, Thank you, to all of you who responded to my query regarding isolation by distance/ isolation by altitude and F_{st} . The answers helped me a lot and I

learned much about this topic. Here are all responses to my question. Hopefully, I have not forgotten a response to post. In the meantime, I found another paper, which might be of use in connection to this problem: Geographical and genetic distances among zooplankton populations in a set of interconnected ponds: a plea for using GIS modelling of the effective geographical distance. Michels, E., Cottenie, K., Neys, L., De Gelas, K., Coppin, P., and de Meester, L., *Molecular Ecology* (2001) 10: 1929-1938. However, if anyone has additional suggestions or wants to discuss things in more detail, I am open for further discussions. Best regards, Cornelya

Summary of answers for the following problem: I have got a question regarding isolation by distance: I am working with microsatellites and want to test, if genetic differentiation is correlated with altitude, but I have read that this might result in artificial outcomes, because there is no theoretical background for the relationship of F_{st} and altitude. Is this true and if yes, how can I deal with this problem in another way? I would be thankful for suggestions and will post a summary of answers.

> hi Conny Mantel tests can test for association between any two matrices, so I don't see any reason why you cannot test microsatellite data against altitude. Similarly, spatial autocorrelation does not have to be done with respect to linear distances - you can make up your own distance (Gabriel networks allow distance inequalities, eg A→B is not the same as B→A). You might like to have a look into the 'ecological distance' literature (eg a paper by Geffen et al in *Molecular Ecology* in 2004 I think) which would be a more general approach to the sort of thing you are probably trying to do.

Paul – Dr Paul Sunnucks Senior Lecturer in Zoology School of Biological Sciences Monash University, Melbourne Clayton Campus 3800 Victoria Australia
 Ph + 61 3 9905 9593 fax + 61 3 9905 5613 email paul.sunnucks@sci.monash.edu.au
 webpage: <http://www.biolsci.monash.edu.au/labs/-sunnucks>

Dear Conny,

I don't know if this is what you are interested in, but basically the idea that selective pressures or different environments at higher altitude may cause local adaptation (and thus influence F_{st} among populations at lower and higher altitude)? There are some examples of people working on specific adaptations (not just neutral variation), but it depends on how much altitude and on the scale of the organism. Is this not considered 'theoretical background' by some? Work done by some researchers on hemoglobin adaptations to high altitude comes to mind.

On the other hand, ecological changes occurring as you increase altitude may be expected to result in more subtle changes in populations living in these different eco-

logical zones, perhaps these ecological changes acting as soft 'barriers' to dispersal. This is something we are working on currently, and we are now testing a method to measure 'ecological distance' across mountains (basically the effect of altitude) on genetic & morphological differentiation among populations. Is this something that interests you? If so, reply to this message and I can send more information. The work we are doing won't be ready for a bit, but we are just at the testing stage now, and it should not be too long before we can pass it on if you wanted to try it on your data. If interested drop me a line and I will be happy to explain this in more detail.

- - - - - Gabriela Ibarguchi Department of Biology, Queen's University, Kingston, ON, K7L 3N6 Canada
 ibarguch@biology.queensu.ca; gibarguchi@biology.ca
 Ph: (613) 533-6000 ext. 75539 Fax: (613) 533-6617

Hi Connie, Although I haven't done it myself, I know there are GIS-based methods that will allow you to measure geographic distance between sites that take into account elevation. i.e. the straight line distance between sites on two different mountains will be shorter than the distance you would walk from one site to the next.

Dave David Weisrock, Ph.D. Department of Biology University of Kentucky 101 Morgan Building Lexington, KY 40509
<http://salamander.uky.edu> Phone: 859-323-5190

Dear Cornelya, Try contacting: peter.wandeler@access.unizh.ch I saw his poster on the conference in which he was estimating the influence of valley depth on dispersal pattern in foxes in Switzerland. Best regards Maciek Institute of Nature Conservation Al. Mickiewicza 33, 31-120 Krakow, POLAND
 tel. +48-12-6322221 or 6322755 ext. 102, fax. 6322432

Hi Conny, I have a paper that might interest you in *International Journal of plant Sciences* 2001 by Williams and Arnold. Sorry I can't send you the pdf, but I'm travelling right now. Anyway I found no

— / —

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

Southeastern Louisiana University in Hammond, LA is open (8 Sept) and also will be doing whatever it can to accomodate displaced students from other Louisiana universities. You can enroll to study at Southeastern and should not owe additional fee or tuition. You can contact the Admissions Office for additional information at 985 549-5637 or at admissions@selu.edu. Two special information sessions for displaced students will be held at the Southeastern Student Union: Saturday, Sept 10 at noon and Monday, Sept 12 at 4:30 pm.

On a note more specific to the members of EvolDir. I am teaching a graduate-level class in Population biology and would welcome students from other universities. This class includes lectures (on population ecology and population genetics) and labs. For the lab we are embarking on a research project to study the genetic structure of tree frogs, as well as other activities.

If you need additional information, please contact me.

Rick E. Miller, Ph.D. rickmiller@selu.edu

Rick E. Miller Department of Biological Sciences Southeastern Louisiana University Hammond, LA 70402

Biology Building Room 403 office/ 419 lab phone: (985) 549-5556 FAX: (985) 549-3851 email: rickmiller@selu.edu <http://www.selu.edu/Academics/Faculty/rickmiller>

Katrina displaced from Maritimes

Dear Colleagues

Following up Dr Yampolsky's suggestion, students from Atlantic Canada who have been displaced by Katrina are invited to contact me at the address below. I hope that accommodations for the Fall semester may be made through Memorial University of Newfoundland.

best wishes Steve Carr Professor of Biology

Dr. Steven M. Carr | Department of Biology | "Provehito in Altum" Memorial University of Newfoundland | St. John's NF A1B 3X9 CANADA | (709) 737-4776 office / -4713 lab / -3018 FAX / -7498 dept e-mail: scarr@mun.ca webpage: <http://www.mun.ca/biology/scarr/Research.html> "Dr. Steven M. Carr" <scarr@mun.ca>

Katrina help from Dartmouth

Dartmouth is as well. Those interested should contact Julie.Bell@Dartmouth.Edu.

At 01:46 AM 9/6/2005, you wrote: Dear Colleagues

Following up Dr Yampolsky's suggestion, students from Atlantic Canada who have been displaced by Katrina are invited to contact me at the address below. I hope that accommodations for the Fall semester may be made through Memorial University of Newfoundland.

best wishes Steve Carr Professor of Biology

"Mark A. McPeck" <mark.mcpeek@Dartmouth.EDU>

Louisiana news

For those of you who know me, you know how much I love my morning glories. I have a great collection growing in our greenhouse on the top of the biology building here in Hammond, Louisiana. I had no idea what to expect as Katrina came bearing down on us. Luckily, there was no damage to the greenhouse and the morning glories just continued to grow (and get a little tangled, as they tend to do).

Cheers, Rick

Rick E. Miller Department of Biological Sciences Southeastern Louisiana University Hammond, LA 70402

Biology Building Room 403 office/ 419 lab phone: (985) 549-5556 FAX: (985) 549-3851 email: rickmiller@selu.edu <http://www.selu.edu/Academics/Faculty/rickmiller>

Masking pheromones

Dear All,

I'm looking for a colourless, odourless and impermeable substance, something like wax or transparent gloss

paint maybe, to put on the wings' hairpencils of a small butterfly, *Bicyclus anynana*.

The hairpencils form part of the androconia, a secondary sexual character involved in pheromone release. With this substance I would like to prevent the pheromone release by the androconia.

Any suggestions are really welcome!

many thanks in advance,

Caroline.

Caroline Nieberding PhD Institute of Evolutionary Biology Leiden University Kaiserstraat 63, 2311 GP Leiden The Netherlands phone: +31 71 5274882

Unité de recherches zoogéographiques B22 Boulevard du Rectorat University of Liège 4000 Sart Tilman Belgium

Nieberding Caroline <Caroline.Nieberding@ulg.ac.be>

MolecularClocks answers

Dear Colleagues,

Thank you, to all of you who responded to my query about Maximum Likelihood and Bayesian methods for inferring divergence times. It was very helpful to hear your perspectives, and I was happy to learn that so many of you share my interest in this topic. Because a great many people requested that I post the replies, I have compiled them here (following my signature line). I hope you will find this helpful.

Best,

Chris Smith.

Christopher Irwin Smith, Ph.D.

Post Doctoral Research Fellow University of Idaho Department of Biological Sciences Moscow, Idaho 83844
ph: (lab) 208 885.8860 (office) 208 885 4229

<http://www.webpages.uidaho.edu/~csmith/-ChrisSmith.htm> Here are the answers:

Under ideal conditions, the general effect of overspecification should be reduction of statistical power (flattening of the likelihood surface), while underspecification can indeed lead to odd artifacts (being misled). Also, the cost of overspecification in a Bayesian context should be less than in an ML context because nuisance parameters (for which the data may be only weakly in-

formative) are integrated out. You might look at the Lemmon and Moriarty paper in *Sys Bio* a few years ago, which specifically investigates the practical consequences of model over and underspecification on simulated data, in a Bayesian context.

Hope that helps, D Derrick Zwickl
<zwickl@mail.utexas.edu>

Hi Chris,

Is there a way to combine information from multiple genes with different mutation rates in R8's?

As far as I know this cannot be done with r8s right now. But this can be done with MULTIDIVTIME

Similarly, I am interested in the effect of model parameters on the behavior of MULTIDIVTIME. The release notes suggest that the most complicated model that can be implemented is F84+gamma. Does anyone have experience using this program for data sets where more complicated models - say, GTR+I+G for example - are justified? What are the consequences of using the simpler model if the data depart significantly from the expectations of F84+gamma?

I would guess that there is not too much of a problem with this kind of model misspecification. However, how much of a problem it creates will be related to how divergent your sequences are, with larger divergences (corrected distances of 0.5-1+) being most drastically affected. In my opinion, the most important thing is to have a rates across sites process, like gamma, in the model. Even if I+G fits better than G alone, I don't think this will matter too much because the invariable sites end up getting accounted for in the lowest rate category for the gamma.

Keep in mind I've never done the test myself. I would suggest testing things out by simulating data under GTR+I+G using Seq-Gen and see how well ESTBRANCHES/MULTIDIVTIME does at recovering branchlengths etc using the F84+g model. This is probably the only decent way to really get an idea of how bad things could be.

Finally, I strongly suggest you do not use the additive penalty for r8s. We have good evidence that it causes serious biases in divergence times.

Sincerely Andrew J. Roger Associate Professor Dept. of Biochem/Mol. Biol. Dalhousie University Halifax, N.S. Canada

Dear Chris,

Sorry, I haven't got an answer to your question, although I am familiar with MULTIDIVTIME. I'd also be very interested in finding out whether there is a way

to specify a more complex model than F84+gamma. When too simple a model is specified, Bayesian analyses (e.g. MrBayes) tend to come up with spurious results, whereas overspecification is usually not a problem. So that isn't likely to be any different in MULTIDIVTIME. Based on a recent paper in Systematic Biology (particularly at the figures on pages 909 and 910 -model underspecification vs. overspecification). According to this, MULTIDIVTIME should ideally include the GTR+I+G model, just to be on the safe side. I'd very much appreciate if you could keep me updated if anyone can suggest away how to do this.

Best wishes, Peter "Dr. Peter R. Teske"
<P.Teske@ru.ac.za>

hello Chris, I've used multidivtime and it easily does multiple genes, different position partitions. Go ahead and send Thorne an email, he responds very quickly and thoughtfully. Curious to see what you hear back,

Chris Christopher West Wheat <ccw10@psu.edu>

Well, Multidivtime is a bugger to run, but once you've done it once or a couple of times it is more-or-less straightforward. When we ran both Multidivtime and r8s we got fairly different results for mean divergence times for a single data set. I'm attaching a pre-print (in press - syst biol) which briefly outlines the discrepancies. In future we won't be using Multidivtime (at least with its current model implementations) since the F84 model is clearly contradicted by some of our partitions

— / —

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>

PCRbands fading

Dear evoldir members,

Allow me to post a technical question, from someone else in this list. I suspect that someone outthere might have faced a similar problem before. I would appreciate very much if I can get some insights from the list about the following problem:

"I am encountered an extraordinary strange phenomenon agarose gel ethidium bromide staining fading.

Initially I ran my agarose gel in 1 x TAE buffer and stained the gel in ethidium bromide water solution.

The images in the gels could last long enough for me to record the results and take photographs. Suddenly from my 55th PCR run, the gel once was put on the UV box, the images in the gel was fading so quickly that it was not long enough for me to do the necessary recording. What I did was to clean the container and make up another new solution. This new step would not help it at all.

Then I switched to 1 x TBE buffer, the ethidium bromide solution was made up with 1 x TBE buffer as well. This measure slowed the fading. Again from my 85th PCR run, the fading is so quick.

Does anyone have this sort of experience? Could you kindly give me some advice? Or any comments will be very appreciated!"

Thank you very much for your time.

Cheers,

Fabio

"An invasion of armies can be resisted, but not an idea whose time has come" Victor Hugo

Fabio Mendonca Diniz, B.Sc. (Hons.), M.Sc., Ph.D. Population Genetics - Molecular Phylogeny University of Southampton School of Biological Sciences Ecology and Evolutionary Biology Group Bassett Crescent East Southampton SO16 7PX United Kingdom Tel: +44(0)23 8059 4256 Fax: +44(0)23 8059 4459

F.M.DINIZ@soton.ac.uk

Pairwise theta rho

Hi

Does anyone know of population genetic software for microsatellites that is able to estimate population pairwise theta (Weir and Cockerham's estimator of F_{st}) and/or rho (Goodman's estimator of R_{st}) and their probability values or bootstrap confidence interval?

Thanks Morten Tange Olsen University of Copenhagen mtolsen@bi.ku.dk

MTolsen@bi.ku.dk

Partial diallel question

Dear EvoDir members,

I used a partial diallel mating design to produce crosses for a heritability experiment (each of 44 parental plants were crossed 4x maternally and 4x paternally). I am currently working with a few people to determine the best method of analysis. Many of the references we have found don't seem to clearly explain how to deal with the analysis of a design such as mine. It seems most partial diallel references actually discuss half diallel designs, where all possible crosses have been made without reciprocals or selfs, and do not explain how to deal with the absence of many possible crosses.

I would appreciate any information on possible analyses for partial diallel mating designs, especially SAS programming, or good references that may discuss this type of design.

Thank you,

Rainee Kaczorowski Ph.D. Candidate Biological Sciences University of MO-Columbia RaineeK@gmail.com RaineeK@gmail.com

PeerReview bias

Dear colleague ecologists,

I am very interested in your opinion about the current peer review system. How (un)biased do you think it is? I would be very pleased if you could take one minute to fill in the following questionnaire. Please reply to smitchr@gmail.com.

Thanks a lot you for your cooperation! Best wishes, Christian Smit

1. Do you think that the current peer review system (SINGLE BLINDING: author identity shown to reviewers, reviewer identity not shown to authors) is unbiased: YES - NO
2. Do you think that this system should be improved: YES - NO
3. What do you think of the following alternatives:

Both the authors and reviewers identities are confidential (double blinding): WORSE - NO CHANGE - BETTER Both authors and reviewers identities are known (double unmasking): WORSE - NO CHANGE - BETTER

4. Which system would you prefer: SINGLE BLINDING - DOUBLE BLINDING - DOUBLE UNMASKING

5. Current position: BSC/MSC - PHD - POSTDOC - (ASSOCIATE) PROF - OTHERWISE

6. Number of publications (PEER reviewed): 0 - 5 , 6 - 10 , 11 - 20 , > 21

7. Gender: MALE - FEMALE

8. Age:

9. Country of affiliation:

christian.smit@unifr.ch

Phenylalanine decarboxylase source

Basically i need to locate somebody somewhere on the planet who has some Phenylalanine decarboxylase. I am desperate for this enzyme so that i can finish processing my samples, and ultimately finish my Ph.D. I can find nobody who makes this anymore, so i was hoping somebody may have some in the darkest corners of their lab freezer and would be willing to let me buy it off them. Please reply to stephen_mccleary@yahoo.co.uk if you can help thanks - S.J.McCleary bsu642@bangor.ac.uk "S.J.McCleary" <bsu642@bangor.ac.uk>

R package tree imbalance

We have just released version 1.0.0 of a R package called 'apTreeshape'.

It is mainly dedicated to simulation of phylogenetic tree topology and analysis of phylogenetic tree imbalance. Published phylogenetic trees can be retrieved from the public databases Pandit and Treebase. It is a companion library of the R package 'ape'.

The package as well as the documentation can be downloaded at <http://cran.r-project.org/> Michael Blum and

Olivier Francois Laboratoire TIMC-TIMB Université de Grenoble

Blum <michael.blum@imag.fr>

Reamplify MDEgels

Dear Evoldir,

I am trying to reamplify bands separated by SSCP-analysis and am using MDE gels.

Things I tried so far: 1. Cutting out the band and soaking it in water for a couple of hours - overnight; optionally followed by a 10min heat (94C) incubation; DNA was precipitated ethanolicly afterwards 2. Stabbing the band with a 10ul pipette-tip, syringe, respectively, transfer of the tip into a fresh PCR reaction, incubation of tip in reaction for some hours at 4C; alternatively a syringe was used to stab the band

Stabbing the band with a 10ul pipette tip worked on a few occasions as the syringe did. However, this technique seems extremely unreliable. Would you reckon that I transfer TBE buffer into my PCR reaction by stabbing the gel and, thus, ruin it?

If anyone has a suggestion or experience with a protocol for recovery of DNA from MDE, polyacrylamide gels, respectively, I would appreciate your feedback.

Bastian Bentlage

GZG - Geobiology Goldschmidtstr. 3 37077 Goettingen Germany

Centre for Biodiversity and Ecology University of Goettingen

E-Mail: b_bentlage@gmx.net

b_bentlage@gmx.net

Screening micros

What grade of reagents (molecular biology/ ACS/ USP/ NF) is sufficient for genetic screening of microsatellite alleles? The molecular biology grade can be double or triple the untested grades. I need to buy the following reagents asap. 40% 1:19 bis-acrylamide

ammonium persulfate formamide temed tris urea boric acid silver nitrate edta formaldehyde sodium carbonate ethanol

Ann Eileen Miller Baker University of Ky, Lexington KY USA mouse@lamar.colostate.edu

mouse <mouse@lamar.colostate.edu>

Software CLC FreeWorkbench 1 01

CLC Free Workbench 1.01 is now available for download at www.clcbio.com This software package is a community edition that is - and always will be - available for download free of charge.

CLC Free Workbench includes these bioinformatics features: * Multiple alignment of DNA, RNA, and proteins * Open reading frame determination * Translation from DNA to proteins (all genetic translation tables) * Reports with residue composition, molecular weight and iso electric point (for proteins) * Neighbor-joining and UPGMA phylogenies * Restriction site analysis and viewing * Import and export of data in GenBank, Fasta, Phylip, and Newick file formats * Easy access to web based protein and nucleotide search in GenBank, including download facilities and full graphical overview of sequence annotations

For the following reasons, the workbench may interest readers of this newsgroup who teach bioinformatics courses: * It offers a graphical user interface that is intuitive and easy to use * It is free of charge * It offers full integration of data input, data management, calculations results, and data export. This eliminates manual data transfers between different programs and databases * It is available for the major computer systems: Windows, Macintosh and Linux

For further information, and download, please visit our website at www.clcbio.com All feedback on the software will be greatly appreciated.

Best regards

- Roald Forsberg Senior Scientific Officer CLC bio A/S Science Park Aarhus Gustav Wieds Vej 10 8000 Aarhus C Denmark www.clcbio.com rforsberg@clcbio.com

Subtractive Supressive Hybridization answer

Hi everyone,

About a month ago, I posted a question about SSH which interested many of you too. Unfortunately, of about 20 responses I got, all but one were of the kind "please forward me the answers you get". On the other side, it does show that this technique en vogue. ;)

So, for the benefit of all of you, I post here the full answer I received. Please do not reply to this mail. ;)

Eric Normandeau

START OF THE ANSWER:

I have used the Clonetech kit. To get it to work, I had to add in an extra hybridization between the tester and driver (the kit calls for two hybridizations), and I had to dilute the tester DNA compared to the driver. I ended up doing the complete protocol three times before I had good results, not counting repeating particular steps. "Good" results mean an enrichment for tester-specific DNA, so perhaps half of the cloned fragments are really tester-specific.

The kit requires a phenol/chloroform extraction, which was annoying since our lab no longer uses those chemicals in routine preps, making a new waste disposal issue. Clonetech couldn't tell me if it was okay to use our enzyme stores pre-equilibrated phenol. They sent me a kit with a bad positive control, which caused me to use up a lot of reagent with no useful result, but it took forever to get it replaced since they only made a new batch once a month. The protocol is a little fussy, so be sure to read it several times before starting in.

Thats it! Have a good day all

eric.normandeau.1@ulaval.ca
eric.normandeau.1@ulaval.ca

USanFrancisco Help

If any researchers displaced from the Hurricane need a place to stay in the San Francisco Bay area (there may

be lab opportunities at UCSF, Berkeley, SF State etc.) I have a spare bedroom that is open, and have access to computers. Feel free to contact me at the University of San Francisco: 415-422-5481 or my home: 415-674-1162. If you know anyone who may need this please pass along the info.

Jennifer Dever, Ph.D. 241 Masonic Ave. San Francisco, CA 94118 415-674-1162

Namaste.

Jennifer Dever <jendevever@hotmail.com>

Unnamed Conference location

Hi

I have been searching on the web for information about the population genetics conference that usually takes place in January, but cannot seem to find it. Does anyone have the website address?

Much thanks Kerusha Pillay

kerrypil@yahoo.com

VisitingFellowships ConGen

European Science Foundation Programme on Integrating population genetics and conservation biology: merging theoretical, experimental and applied approaches (ConGen) is offering funding for a number of Short Visits (up to 15 days) and Exchange Grants (from 15 days to 6 months) related to the scientific objectives of the Programme Please note that the Steering Committee will fund only sufficient high-quality applications. Junior applicants with little experience in writing a proposal are therefore strongly recommended to ask advice from their senior local and/or host supervisor on these matters.

The next deadline for applications is 15 November 2005. To apply please visit http://www.esf.org/-esf_article.php?language=0&domain=3&activity=-1&articleD3&page57

ConGen invites proposals from potential organisers of

workshops to be held in 2006 on topics with a clear connection to the Programme.

The Steering Committee welcomes all proposals that fall within the scope of ConGen but is particularly interested in receiving proposals targeted at the following issues:

1. Use and abuse of molecular genetic markers in conservation genetics:

Including questions as: How these markers can be used to infer population structure, gene flow and demographic parameters? Can the different processes that lead to similar patterns of genetic structure be distinguished? Can they be used to signify causal processes as habitat change, fragmentation or disturbance? Use and limitations of (existing) software packages.

2. Level of Genetic variation and the short- and long-term fate of populations: Causal relationship with fitness, adaptive potential and survival:

Discussing issues as: (i) relevance of neutral genetic markers versus selective variation; (ii) quantitative variation versus major genes; (iii) local adaptation versus plasticity; (iv) local adaptation and gene flow; (v) is the level of genetic variation a limiting factor?

3. Scaling issues in conservation genetics:

Raising questions as: To what extent can genetic measures that normally are used to study gene diversity, demography and dispersal at the population and species level be up scaled to higher levels of biological organisation? Can genetic measures be developed to investigate diversity and its dynamics at the community level? How is the distribution of biodiversity (across Europe) affected by different spatio-temporal scales and are standard population genetic processes and approaches adequate to illuminate this?

Priority will be given to workshops taking place in countries that financially support the Programme (Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, Hungary, the Netherlands, Norway, Spain, Sweden and Turkey).

ConGen will provide a maximum of 20 000 EUR per workshop.

The next deadline for applications is 15 November 2005. To apply please visit http://www.esf.org/-esf_article.php?language=0&domain=3&activity=-1&articleD3&page58

Application forms and further information can be obtained at <http://www.esf.org/ConGen> ****

Helena Wurtz <hwurtz@esf.org>

Vistra725 SpareParts

Dear evoldir-members,

In my lab we have an old Vistra DNA Systems Sequencer 725 of Molecular Dynamics, which we still use. However, we run out of spare parts, since the company has stopped producing this machine a long time ago (I doubt whether the company still exists!).

If anyone used to have the same Sequencer and does not use it anymore, we would be interested in receiving/buying the following parts:

a) glass plates b) top buffer reservoir c) bottom buffer reservoir d) normal combs for microsatellites

Please send any answer to kasapidi@her.hcmr.gr

Thank you all,

Panagiotis

Panagiotis Kasapidis, Ph.D. Hellenic Centre for Marine Research Institute of Marine Biology and Genetics Former American Base - Gournes PEDIADOS GR 71500 Iraklion Greece Tel: + 30 2810337854 Fax: + 30 2810337820 e-mail: kasapidi@her.hcmr.gr

Panagiotis Kasapidis <kasapidi@imbc.gr>

Website forIDvsEvol

Dear Evoldir,

~ for anyone who might have use of it, my good friend Rodger has started developing this site

<http://www.evolvingcode.net/forum/-viewforum.php?f=14>

as a day-by-day record of developments pertaining to "evolution versus intelligent design" as reported in the American media.

We began developing the resource in early July, and we hope it may become useful to some teachers and researchers who wish to search for sources, examples and quotes as the months roll by.

Steve Freeland

freeland <freeland@umbc.edu>

World Grass Species Databases

Dear all,

I would like to draw your attention to some major developments in the Kew World Grass Species Descriptions and Synonymy databases. These databases have been in development at Kew for the past decade, and contains Delta descriptions for all 10,800 grass species using 1,090 characters.

You can visit the databases at: *Descriptions*: <http://www.kew.org/data/grasses-db.html> and *Synonymy*: <http://www.kew.org/data/grasses-syn.html> respectively.

We have implemented some major changes with these databases. We have now generated english descriptions in HTML format for all grass species which supplement our current interactive key to grasses. We have included more documentation and a glossary of terms within Intkey, as well as notes regarding individual characters.

There is also useful documentation on the use of the dataset as well as some Delta and Intkey documentation. The synonymy database allows you to enter any grass name and it will give you the accepted name for

that species, as well as a link to the descriptions pages on the Kew website. In addition to this you can produce checklists for geographical regions, genera or both, all with links to descriptions.

These databases are still under development and further changes are planned over the next few years.

If any of you find anything that you feel you could contribute to these databases in way of corrections or additions to our descriptions please see the 'How to make a contribution' page on the website.

Enjoy exploring the data and please don't hesitate to contact me regarding queries.

Kind regards, Kehan Harman

–

Mr. Kehan Harman k.harman@kew.org <http://www.kew.org/scihort/poaceae.html> *A Celebration of Grasses*

Upcoming Conference 9th and 10th September 2005

Hosted By Royal Botanic Gardens, Kew and The Linnean Society <<http://www.linnean.org/>> Click here <http://pixbox.co.uk/linnean/details/-Celebration_of_Grasses_2nd_Circular.doc> for 2nd Circular and Registration Form. Database and Collections Officer Herbarium Royal Botanic Gardens, Kew Richmond, Surrey, TW9 3AB, UK Tel +44 (0)20 8332 5272 Fax +44 (0)20 8332 5278

kehanharman@gmail.com

PostDocs

ArizonaStateU 2 TheoPopGenet	64	NorthCarolinaStateU Genetics	69
CNRS GIF VertebrateEvol	64	NorthernArizonaU PathogenEvol	70
GaterslebenGermany StJohnsWort	65	SantaFeInst EvolBiol	70
Heidelberg EMBL ComputGenomics	65	StAndrewsU EvolBiol	71
IFREMER France EvolEcol	66	Sweden FishEvolBiol	71
ImperialCollegeLondon PopulationGenomics	67	UArizona BeetlePlantEvol	72
ImperialCollegeLondon SystematicsAquaticInsects	67	UArizona EvolBiol	72
IowaStateU TheoEvolEcol	68	UArizona SquirtEvol	73
MaxPlanck Jena HostAdaptation	68	UCDavis DrosophilaEvolGenetics	73
NatHistMus London CestodeLifeHistory	69	UCDavis PlantPopGenetics	74

UCincinnati EvolEcol	74	UMissouri Polyploidy	76
UFloridaGainesville HumanMolGenetics	74	UNevadaReno EvolPhysiology	77
UFloridaGainesville ancientDNA	75	UPotsdam EvolBiol	77
UJohannesburg DNABarcoding	75	UVienna StatGenetics	78
ULiverpool HostParasiteEvol	76		

ArizonaStateU 2 TheoPopGenet

Two postdoctoral positions in theoretical evolutionary/population genetics are available beginning January 1, 2006. The positions will be based in the Center for Evolutionary Functional Genomics, the Biodesign Institute of Arizona State University, Tempe, Arizona. Required: doctorate in biology (population genetics; molecular evolution; evolutionary theory; statistical genetics; computational biology) or other related fields (statistics; applied math or physics including stochastic processes; bioinformatics). Desired qualifications: demonstrated knowledge of population genetics and molecular evolution; excellent programming experience; record of scientific publication.

The position is to work closely with the PI (Yuseob Kim) on projects in the following areas: 1. Modeling adaptive evolution, including dynamics of adaptive substitutions in various genetic/demographic settings. 2. The effect of adaptive substitutions on sequence variation and codon bias. 3. Mapping genes that have experienced recent natural or artificial selection using population genetic data. This work will be performed using mathematical analysis, computer simulations, and/or bioinformatic analysis. The successful applicant may also conduct independent research in related fields. Opportunities for collaboration exist with the research groups of Sudhir Kumar and Michael Rosenberg (statistical genomics) and Brian Verrelli (experimental population genetics) in the Center for Evolutionary Functional Genomics (EFG) (www.biodesign.org/efg).

The EFG Center is housed in the Biodesign Institute, a state-of-the-art research building newly constructed on ASU's main campus. An excellent computing facility is provided to accommodate the large-scale, computationally intensive research. The EFG Center and the School of Life Sciences (<http://sols.asu.edu>) of ASU boasts a strong and dynamic group of evolutionary biologists.

Candidates must submit a C.V. and a statement of research interest to Yuseob Kim (ykim@mail.rochester.edu). Initial deadline for application is November 30, 2005; if not filled,

monthly until search is closed. Informal inquiries are encouraged. A background check is required for employment. Arizona State University is an Equal Opportunity/Affirmative Action Employer.

Yuseob Kim <ykim@mail.rochester.edu>

CNRS GIF VertebrateEvol

Post-doctoral position in evolution and development of vertebrates 2005/2006

Research Topic: We are mainly interested in (1) how genes and genomes evolved and (2) what are the links between gene evolution and phenotype in vertebrates. We address these questions by means of genetics and molecular biology performed in model organisms such as zebrafish, medaka and xenopus. However, we are also developing studies on non-model species such as dogfish (chondrychtyans) and lamprey.

Main research projects: - Molecular and functional evolution of gene families : we focused our attention on *evx* and *dlx* genes that encode transcription factors involved in a wide array of developmental processes in vertebrates. - Evolution of dental structures : comparison of gene networks involved in the development and evolution of oral/pharyngeal teeth and dermal denticles. - Phylogenomics and genome evolution of vertebrates. - Web-based storage and analysis tools for gene expression data.

The post-doc fellow will participate to one of our current projects or he can propose a new project concerning the genome evolution and development of vertebrates. We are particularly interested in a project on functional analyses of *evx* and/or *dlx* genes.

Starting Date: end of 2005 / beginning of 2006

Duration: 24 months

Salary: Net income: around 1800 euros/month (gross income: around 2200 euros/month)

Hosting Laboratory: Populations, Génétique et Evolution-UPR9034 CNRS - 91198 Gif-sur-Yvette

(Paris) ? France

Requirements: Molecular evolution, molecular biology and/or bioinformatics

Contact Persons: Didier Casane e-mail: didier.casane@pge.cnrs-gif.fr Tel: 33 (0)1 69 82 37 21 Fax: 33 (0)1 69 07 04 21 <http://www.cnrs-gif.fr/pge/accueil/index.php> <http://www.cnrs-gif.fr/pge/perso/index.php?id=68&lang=fr>

– Didier Casane Equipe ATIP Genome, Developpement et Evolution Laboratoire Populations, Genetique et Evolution (UPR9034) CNRS - 91198 Gif-sur-Yvette cedex - France Tel: 33 (0)1 69 82 37 21 Fax: 33 (0)1 69 82 37 36 e-mail: didier.casane@pge.cnrs-gif.fr <http://www.pge.cnrs-gif.fr/> Didier Casane <casane@pge.cnrs-gif.fr>

GaterslebenGermany StJohnsWort

A one-year post doctoral position is being funded by the DAAD (www.daad.de) to work in my laboratory on apomixis evolution in St John's wort (*Hypericum perforatum*).

St John's wort populations are composed of diploid sexual and/or tetraploid facultative apomictic (asexual reproduction through seed) forms. We are interested in understanding how and why apomixis has evolved in *Hypericum*, and how the expression of apomixis may be correlated with polyploidy and/or interspecific hybridization.

We have a large number of wild accessions growing in our greenhouses, in addition to a number of crosses between sexual and apomictic genotypes. We are furthermore generating a genetic map using AFLP and microsatellite markers, and are quantifying variation in the apomictic phenotype using flow cytometric seed screens. The post doctoral position would involve the analysis of microsatellite and SNP markers in the wild and crossing populations.

My lab is found at the IPK in Gatersleben (www.ipk-gatersleben.de), which is about 2 hours southwest of Berlin near the beautiful Harz mountains (<http://www.nationalpark-harz.de/>) where you can do lots of hiking, mountain biking and skiing. The IPK is a very well funded institute which is composed of a broad spectrum of research groups working on many different aspects of plant genetics.

The position is scheduled to start in May 2006.

If you are interested in the position, please don't hesitate to contact me for more information.

Best wishes from Germany! Tim

Dr. Tim Sharbel Apomixis Research Group Dept. of Cytogenetics Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK) Corrensstraße 3, D-06466 Gatersleben Germany

Apomixis Group Webpage <http://www.ipk-gatersleben.de/en/02/04/05/index.html> IPKWebpage www.ipk-gatersleben.de tel: +049 (0)3948 25608 fax: +049 (0)3948 25137

Heidelberg EMBL ComputGenomics

POSTDOCTORAL POSITION AT THE EUROPEAN MOLECULAR BIOLOGY LAB (EMBL) IN HEIDELBERG, GERMANY

We're seeking a postdoc to work on a computational project entitled Combining systems biology and comparative genomics approaches to study the evolution of bacterial metabolic networks. Previous experience with the analysis or simulation of networks, and/or in the field of evolutionary genomics is desirable.

My group at EMBL is closely associated with the group of Peer Bork (www.bork.embl-heidelberg.de), so that we benefit from a wide range of experience in computational biology. Within EMBL, there are opportunities to collaborate with experimental groups on a variety of topics.

The position is available for up to two years, and is funded by the German Research Foundation (DFG). Salary will be analogous to the German BAT IIa scale.

EMBL (www.embl.de) is a highly recognised research institution, jointly funded by its Member States (Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Israel, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom).

EMBL staff enjoys generous benefits and tax exemptions. Heidelberg is one of the oldest (and possibly the prettiest) University town in Germany, and is a very nice place to live.

Please direct any informal enquiries or formal applica-

tions to me, preferentially per email (lercher@embl.de), or to

Martin Lercher EMBL Meyerhofstr.1 69012 Heidelberg Germany

IFREMER France EvolEcol

Postdoctoral position in evolutionary ecology at the French Institute of Research for the Exploitation of the Sea (IFREMER), Port-en-Bessin, France

A postdoctoral position is available at IFREMER, France. The successful applicant will be expected to investigate exploitation-induced adaptive changes in the French population of Pacific oysters located in the Marennes-Oléron Bay. This research project is intended to combine statistical analyses on 25 years of data showing monotonic phenotypic trends in growth, reproductive effort and spawning timing, together with the development of an eco-genetic model parameterized for this species in order to understand the processes responsible for the observed trends and investigate alternative management strategies aiming at reducing or reversing them (www.iiasa.ac.at/Research/ADN/FishACE/Tasks.html#task3).

The post is funded by the EU Marie Curie Research Training Network FishACE, Fisheries-induced Adaptive Change in Exploited Stocks (www.iiasa.ac.at/Research/ADN/FishACE/Home.html). The FishACE network is set up to investigate the prevalence and consequences of fisheries-induced adaptive changes in exploited aquatic systems in European waters. The network is coordinated by the International Institute for Applied Systems Analysis in Laxenburg, Austria. There are altogether 11 network teams in 8 European countries. Besides training through research, the network provides international exchanges and workshops, as well as tailored training courses on relevant methods and skills.

Applicants should have a PhD and a strong background in statistical analysis, life history theory, ecological and evolutionary modelling. An interest in fisheries and aquaculture would also be an advantage. According to fellowship rules, applicants must be of non-French nationality and must not have resided in France for more than 12 months in the last three years (www.iiasa.ac.at/Research/ADN/FishACE/Positions.html#eligibility; notice that French citizens and residents can apply for positions in other teams in

this network). The work will be conducted together with both the Fisheries Department (Port-en-Bessin, France; www.iiasa.ac.at/Research/ADN/FishACE/Teams.html#team5) and the Genetics and Pathology Laboratory (La Tremblade, France; www.iiasa.ac.at/Research/ADN/FishACE/Teams.html#team6) of IFREMER, although the successful applicant will be officially hosted by the former. Collaboration with several other teams in the network is foreseen, facilitated by research visits. The position is initially for 12 months, with a possibility of extension up to 26 months. The salary, which include travel and mobility allowances, follows the Marie Curie rates prescribed by the EU and is very competitive.

The French Institute for the Exploitation of the Sea (www.ifremer.fr/anglais/) is a national research institute affiliated with the Ministry of Education, Research and Technologies, the Ministry of Agriculture and Fisheries, the Ministry of Environment and Sustainable Development, and the Ministry of Equipment, Transport, and Housing. The Institute conducts research in all fields of marine science among which fisheries and aquaculture sciences and the management of marine living resources. The Institute has about 1700 employees located in 24 marine stations distributed along the French coastline. The Fisheries Department in Port-en-Bessin is part of a marine station located on the coast of the English Channel at 30 km from Caen, Normandy, France. It consists of about 35 persons among whom 15 senior researchers and 15 technicians in marine and fisheries science. Normandy is one of the most renowned regions in France for its food and its surroundings, which offer numerous opportunities for outdoor activities both on the seaside and inland. Caen is a lively town with rich cultural life located only 2 hours away from Paris by train or car.

For more information please contact Bruno Ernande by email (Bruno.Ernande@ifremer.fr). Applications should contain a cover letter, a detailed curriculum vitae, including a list of publications, a summary of research experience and interests, and two letters of scientific referees. Review of applications will continue until the position is filled. Applications should be sent to: Bruno Ernande, Laboratoire Ressources Halieutiques, IFREMER, BP 32, F-14520 Port-en-Bessin, France.

–
Dr. Bruno Ernande Coordinator of the project “From fish’s adaptive strategies to an

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

mcmaster.ca/~brian/evodir.html

ImperialCollegeLondon PopulationGenomics

Imperial College London St Mary's Campus Paddington

POST-DOCTORAL RESEARCH ASSOCIATE Computational Statistics in Population Genomics Salary £22,870-£29,090 inclusive of London Allowance

This appointment is for three years, starting 1 October 2005 (later by agreement)

The post is funded by an EPSRC grant aimed at developing and applying computational statistics methods for exploiting the large new datasets that are now arising in population genomics. Recently, several promising new methods have arisen that replace calculation of the likelihood function by a simulation-based approximation, either in a rejection- or importance-sampling setting, or within Markov Chain Monte Carlo. This is especially useful when there are a lot of data and models that are complex yet easy to simulate from. This situation arises in population genomics, in which genome-wide datasets from humans and other organisms are now routinely being collected, and the simulations involve some or all of the demographic history of the underlying population. The post-holder will have opportunities to explore other application areas, for example in infectious disease epidemiology.

The postholder's main tasks will be to develop and test new statistical methods, guided by the project leader Professor David Balding, in the Department of Epidemiology and Public Health at the St Mary's, Paddington, campus of Imperial College, see www.icbiostatistics.org.uk. S/he will also work closely with Dr Mark Beaumont, of the School of Animal and Microbial Sciences at the University of Reading, who is a collaborator on the project and will be supervising a PhD student investigating novel applications of the methodology developed by the postholder.

The successful applicant will have a PhD in computational statistics or related field (statistics, mathematics, bioinformatics, population genetics, computer science). The level of appointment will be commensurate with skills and relevant research experience.

Further details and an application form can be obtained

from <http://www.imperial.ac.uk/employment> alternatively write to the Recruitment Assistant, Human Resources Division, Medical School Building, Imperial College London, St Mary's campus, Norfolk Place, London W2 1PG, quoting reference: MJ105/05.

Closing date: Tuesday 27 September 2005

– Mark A. Beaumont, School of Animal and Microbial Sciences, University of Reading, Whiteknights, P.O. Box 228, Reading RG6 6AJ, UK

Tel 0118 378 7707 Fax 0118 931 0180 Email: m.a.beaumont@reading.ac.uk WWW: <http://www.rubic.rdg.ac.uk/~mab/>

ImperialCollegeLondon SystematicsAquaticInsects

Imperial College London Faculty of Life Sciences Division of Biology

Research Associate Salary in the range £22,870 - £33,330

Research Associate Position in Phylogenetics and Evolution of Aquatic Beetles Imperial College London and the Natural History Museum, UK

Applications are invited for a 2-year position jointly at the Division of Biology (Imperial College) and Department of Entomology (NHM London), working with Dr Alfried Vogler to study the genetic diversity of insect communities across Europe. The aim of this project is to examine the diversity and distribution of genotypes in populations and communities, for a test of neutral¹ biodiversity theories. Using a robotic set-up for large scale sequencing, mtDNA gene analysis will be conducted across entire species assemblages at different spatial scales, to include some 200 species from widely distributed multi-species communities of lotic and lentic habitat types.

You should have a PhD in systematics or evolutionary biology, and should have worked on aquatic insects with experience in ecological field studies and specimen collecting. Proficiency in molecular laboratory techniques and experience with morphological phylogenetic analyses would be very advantageous. A strong commitment to timely publication and interdisciplinary research is critical.

The work will be carried out in the Molecular Systematics Laboratory of the NHM in an active research group

working on phylogenetics, DNA taxonomy, and molecular ecology of beetles and other insects. This work is funded by the Natural Environment Research Council (NERC), and involves three co-investigators (Drs T. Barraclough, Imperial College London, D. Bilton, University of Plymouth, and I. Ribera, Museo Nacional de Ciencias Naturales, Madrid). The project will be supported by a part-time technician conducting DNA sequencing.

Application forms can be downloaded via the following link: <http://www.imperial.ac.uk/employment/-academicform.htm> Completed application forms, covering letter, CV and names and email addresses of three referees should be sent to: apv@nhm.ac.uk.

Closing Date: 12 October 2005

Valuing diversity and committed to equality of opportunity

A.Vogler@nhm.ac.uk A.Vogler@nhm.ac.uk

IowaStateU TheoEvolEcol

A postdoctoral position is available immediately in the Proulx lab at Iowa State University to investigate topics in evolutionary ecology using mathematical and computational tools. Our current focus is on the evolution of gene families and genetic networks. This focus is part of a broader research program that includes topics in sexual selection, sex allocation, life history and niche breadth evolution. The postdoc will have broad opportunities to conduct research in one of these areas or preferably at the interface of these areas.

Candidates with a strong background in mathematics and computer science who are interested in applying these tools to biological problems are encouraged to apply. The position is available for two years with a flexible start date.

To apply, send an email to postdoc@proulxresearch.org containing a letter of interest and CV. Include the names of three potential references on your CV. Applications will be reviewed until the position is filled, but preference will be given to applications received by November 4.

Stephen Proulx Assistant Professor Ecology, Evolution & Organismal Biology 253 Bessey Hall Ames, IA 50011 (515)294-0272 proulx@iastate.edu

MaxPlanck Jena HostAdaptation

Postdoctoral and PhD Positions in the Department of Entomology, Max Planck Institute for Chemical Ecology, Jena, Germany

The following positions (http://www.ice.mpg.de/-main/news/positions/positions_en.htm) are available immediately in the Department of Entomology (http://www.ice.mpg.de/hec/home/home_en.htm).

Postdoctoral Fellowship-Insect Population Genetics
The Insect Population Genetics Group focuses on the identification and analysis of genes involved in the process of adaptation of lepidopteran insects to new host plants or to selective forces such as chemical insecticides. Approaches include QTL analysis, genetic mapping of single genes and map-based cloning. A Postdoctoral position is available to develop and apply various molecular marker techniques for detecting and scoring genetic variation in controlled crosses between different races or species of herbivorous insects. Applicants should have an excellent knowledge of molecular biology and population genetic techniques and should have good communication skills in the English language. Experience in bioinformatics would be a plus. The position is available immediately for an initial period of two years with a prospective third year extension. Applicants must have completed all requirements for the PhD before starting the position.

PhD Studentship-Plant-Herbivore Interactions
The Host-Adaptation Ecology Group examines the traits involved in successful exploitation of hostplants as food resources by herbivorous insects. One PhD position is available to study the genetic basis of a recent host shift in *Plutella xylostella* from Brassicaceae to Fabaceae. The successful candidate should have a strong background in ecology, evolutionary biology or genetics. Previous research experience with phytophagous insects is desirable. We are seeking a highly motivated candidate with strong communication and excellent organizational skills who can operate in an interdisciplinary research environment. The position involves designing and performing large scale crossing experiments and bioassays with different *Plutella* strains. Applicants should have an excellent Diploma degree or M.Sc. in entomology, zoology, or ecology.

PhD Studentship-Physiology and Proteomics of the Insect Midgut
The Proteomics Group studies the midgut

of herbivorous Lepidoptera using a comparative proteomic approach utilizing biochemical, cell biological and molecular tools. We identify and characterize the digestive and detoxifying enzymes which enable insects to escape the defense mechanisms of plants and chemical insecticides. A PhD position is available to generate proteomic maps in combination with cell biological assays to characterize relevant midgut proteins. The successful candidate should have a strong background in biochemical, molecular and/or cell biology techniques in addition to a strong motivation and interest for research projects in insect-plant interactions. Applicants should have an excellent Diploma degree or M.Sc. in biochemistry, molecular biology or physiology. The Max Planck Institute is an equal-opportunity employer and especially encourages women to apply. Applications from handicapped persons will be favored when all other qualifications are equal.

Please send your applications until September 30, 2005 to: Katrin Salzmann-Böhmer Max Planck Institute for Chemical Ecology Department of Entomology Hans-Knöll-Str. 8 07745 Jena Germany

Jan Scheirs <jscheirs@ice.mpg.de>

NatHistMus London CestodeLifeHistory

The Department of Zoology, Natural History Museum, London, invites applications for a 2 year fixed-term Postdoctoral Research Fellow (funded by NERC) to develop and utilise a database on cestode life-cycles for a project entitled: 'Origins and radiation of parasite life history strategies: resolving patterns and processes in tapeworm evolution?'. The project is being run jointly by Dr Tim Littlewood and Dr Rod Bray.

Salary (to £24,283, including London weighting).

Interested candidates should contact Dr Tim Littlewood (T.Littlewood@nhm.ac.uk) for further details of the project including skills and experience required/desired. If uncontactable please download additional information from:

<http://homepage.mac.com/timlittlewood/-PHYLOFACTS/FileSharing6.html> A covering letter explaining your research experience and interests and why you consider yourself suitable for the position, a curriculum vitae, and names and addresses of three referees should be sent by post to Dr Tim Littlewood,

(NERC Postdoc Position), Department of Zoology, The Natural History Museum, Cromwell Road, London SW7 5BD, UK (or via e-mail). The Natural History Museum is an Equal Opportunity Employer.

Apply by 30 September 2005.

Tim Littlewood

D.T.J. Littlewood DC 706, Parasitic Worms Section Department of Zoology The Natural History Museum Cromwell Road, London SW7 5BD UK tel: +44 (0)20 7942 5742 fax: +44 (0)20 7942 5151 <http://www.nhm.ac.uk/zoology/home/-littlewood.htm> <http://www.phylofacts.com> Tim Littlewood <T.Littlewood@nhm.ac.uk>

NorthCarolinaStateU Genetics

Postdoctoral Position in Evolutionary Genomics

A postdoctoral research associate position in evolutionary and/or population genomics is available in the Department of Genetics, at North Carolina State University with Philip Awadalla (NCSU) and sabbatical visitor Adam Eyre-Walker (U. of Sussex). The precise project is flexible. Generally, the interests of the lab include developing and applying models of population genetic inference that address demography and selection, with particular emphasis for application to human and/or malarial genomes, their interactions, and related species. An individual interested in theoretical or computational work can apply. The lab is currently involved in strong collaborations with individuals at NIAID/NIH in Bethesda as well as the Statistical Genetics Group at Oxford, UK. North Carolina State University provides a dynamic integrated environment in the area of evolutionary and functional genomics that includes the laboratories of Trudy Mackay, Bruce Weir, Greg Gibson, Zhao Beng-Zeng, Jeff Thorne, Jung-Ying Tzeng, William Atchley, and Michael Purganan. NCSU is in close proximity to Research Triangle Park (NIEHS, SAS ...), UNC and Duke.

This position will require an independent and motivated individual who has published in genomics, computer science, statistics and/or population genetics. Mathematical and/or computational modeling skills are essential. Funding is available for two years. The salary is according to NIH pay scale commensurate with experience. The position is available as early as January 1, 2005.

For queries and applications please contact Philip Awadalla in writing at pawadalla@ncsu.edu

NorthernArizonaU PathogenEvol

Microbial Pathogen Research Associate Post-Doctoral Position

We seek an individual to fill a two year grant-funded Post-Doctoral position in a large (35+ undergrad, grad students, Post-Docs, and full-time research staff) microbial pathogen molecular genetics laboratory at Northern Arizona University, Flagstaff, AZ. This position will involve characterizing genetic diversity in *Burkholderia pseudomallei* using VNTR and SNP analysis and determining ecological factors that influence the occurrence and persistence of this pathogen in the environment. The ideal candidate recently will have obtained a Ph.D. in an appropriate field and have a strong background in microbial ecology and evolution, statistical analysis, and experimental design. This position will be based in Flagstaff but will require extensive travel to northern Australia and passing a Department of Justice Select Agent Program Security Risk Assessment. For more information and application materials, please go to the NAU jobs web page <http://hr.nau.edu/m/content/view/301/317/>, vacancy# 555014, or contact Dr. David Wagner at Dave.Wagner@nau.edu.

Jim Schupp, B.S., M.B.A. Assistant Director of Research Keim Genetics lab Northern Arizona University Biology Department Box 5640 Flagstaff, AZ 86011-5640 james.schupp@nau.edu 928-523-1120 928-523-0639 FAX J

James.Schupp@NAU.EDU

SantaFeInst EvolBiol

Dear colleagues,

Attached below is a call for postdoc applications for the Santa Fe Institute. Please pass this on to anyone who you think might be interested.

The research here is very broad and interdisciplinary, and the ad has been written to reflect that. However, I

wanted to point out some of the work that might specifically interest people with a background in evolutionary biology.

Current areas of research include ecology, virology and immunology, evolvability and robustness, population genetics, genomic imprinting, paleobiology, evolution of development, genotype to phenotype mapping, biological computation and communication, metabolic scaling relationships, and the origins of the TCA cycle and the genetic code. The work done here is predominantly theoretical, but many of these projects incorporate collaborations with lab and field biologists. For instance, work done here on the molecular evolution of HIV has led to a novel strategy for designing vaccines. These experimental vaccines are currently being tested in the laboratory, and collaborations are in place for future clinical trials.

I also wanted to emphasize the real advantage of these positions: postdocs here are free agents. They can work on their own projects, or strike up collaborations with any of the faculty or other postdocs with whom they have shared interests.

If you or someone you know is a theoretically or computationally oriented biologist looking for a great postdoc, check out the website.

Best regards,

Jon Wilkins

POSTDOCTORAL FELLOWSHIP OPPORTUNITIES

The Santa Fe Institute (SFI) anticipates several openings for postdoctoral fellowships beginning in September 2006.

SFI research is devoted to complex phenomena drawing input from a wide variety of fields, including biology (e.g., genomics, evolution, ecology, immunology, biochemistry & cellular organization, systems & bioinformatics, structure of non-human social groups), computer science (computational complexity, adaptive & resilient computation, novel forms of computation, simulation), physics and mathematics (nonlinear systems, statistical physics, biophysics), and the sciences of human behavior (cognition, neuropsychological development, cultural evolution, economics, market structure & function, evolution of human language). Applications are also welcome from disciplines other than those listed here. Further details about SFI's current research can be found at <<http://www.santafe.edu/-indexResearch.php>>

SFI research is integrative, and there are no formal programs or departments. Postdoctoral Fellows have the

opportunity to work either on existing research projects or projects of their own initiation. Research at the Institute focuses primarily on mathematical and computational approaches, although applicants whose research will include an experimental or data-collection component in collaboration with off-site colleagues are also encouraged to apply. Postdoctoral Fellows are appointed for two-year terms on a full-time basis, with the possibility of a one-year extension contingent on funding and performance.

Candidates should have a Ph.D. (or expect to receive one before September 2006), with an academic record of scientific excellence, an ability for independent research, and a strong interest in interdisciplinary approaches and collaboration.

Applications are welcome from candidates in any country. Women and minorities are especially encouraged to apply. Successful foreign applicants must acquire an acceptable visa (usually a J-1) as a condition of employment.

TO APPLY: Please view the full position announcement and application instructions at <http://www.santafe.edu/postdoc06.html>. All application materials must be received electronically (preferred) or via post no later than November 15, 2005. For further information, e-mail postdocinfo@santafe.edu or call (505) 946-2746.

SFI is an equal opportunity employer.

Jon Wilkins

Research Professor Santa Fe Institute 1399 Hyde Park Road Santa Fe, NM 87501

Ph: (505) 946-2755 Fx: (505) 982-0565

wilkins@santafe.edu <http://www.santafe.edu/~wilkins>

StAndrewsU EvolBiol

We have a 3 year position available, starting on 1 December 2005, or as soon as possible thereafter, working in the lab of Prof Mike Ritchie. The general aim is to analyse the variability of candidate loci for aspects of sexual isolation in *Drosophila*, using a variety of approaches. You will be based in St Andrews but will coordinate research involving technicians in St Andrews, Sheffield (with Prof Roger Butlin) and London (Dr Bill Jordan). Techniques involved will include sequencing and Bioinformatics, expression analysis and evolution-

ary and behavioural genetics. We hope to appoint a highly qualified and motivated candidate.

Informal enquiries to Mike Ritchie (mgr@st-and.ac.uk) or Roger Butlin (r.k.butlin@sheffield.ac.uk).

Web sites - St Andrews University <http://www.st-andrews.ac.uk/> Mike Ritchie's research <http://tiree.st-and.ac.uk/cegg/research.html> Roger Butlin's research <http://www.shf.ac.uk/aps/contacts/-acadstaff/butlin.html> Bill Jordan's research <http://www.zoo.cam.ac.uk/ioz/people/jordanb.htm> Please quote ref: CD022/05 Closing Date: 22 September 2005

Application forms and further particulars are available from Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 01334 462571, by fax 01334 462570 or by e-mail Jobline@st-andrews.ac.uk). The advertisement and further particulars can be viewed at <http://www.st-andrews.ac.uk/hr/recruitment/vacancies>. The University is committed to equality of opportunity.

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

Research website via:

<http://tiree.st-and.ac.uk/cegg/research.html> Treasurer of the Association for the Study of Animal Behaviour ASAB information: <http://www.societies.ncl.ac.uk/asab/> mgr@st-andrews.ac.uk

Sweden FishEvolBiol

Post-doctoral position in Evolutionary biology & Fisheries

at the Swedish Board of Fisheries, Institute of Coastal Research, Öregrund, Sweden, as part of an EU Marie Curie Research Training Network on fisheries-induced adaptive changes.

For more info see below and visit www.iiasa.ac.at/-Research/ADN/FishACE. Post-doctoral position on fisheries-induced adaptive changes at the Swedish Board of Fisheries

An experienced researcher is wanted for analyses of fisheries-induced adaptive changes in Atlantic cod, sprat, and herring in the Baltic Sea. The work involves advanced statistical analyses of maturation data

for the three species, and development and analysis of evolutionary models mirroring their interspecific interactions.

You should have substantial skills in statistics, quantitative biology, and, preferably, experience of biological modelling. Knowledge of evolutionary ecology, evolutionary modelling, and fisheries ecology is desirable. Applicants should hold a PhD or have equivalent research experience.

The position is funded as a part of an EU Marie Curie Research Training Network on Fisheries-induced Adaptive Changes in Exploited Stocks (FishACE), and the work will be carried out in close collaboration with other participants in the network. Excellent English communication skills are therefore required.

The Swedish Board of Fisheries Dept. of Research and Development (www.fiskeriverket.se) consists of three collaborating research institutes conducting basic and applied research on the ecology and management of marine and freshwater resources. The position is located at the Institute of Coastal Research, Öregrund, which offers a stimulating cross-disciplinary research environment, with close collaboration within SBF, with major Nordic universities and other European institutes. Öregrund is a beautiful coastal town north of Stockholm with excellent possibilities for outdoor activities throughout the year.

The position lasts two years, starting December 1st 2005, or close thereafter. According to the rules of Marie Curie Research Training networks, applicants must be of a nationality other than of the country of the host institution and must not have resided in that country for more than 12 months in the last three years. For further information on eligibility, see (www.iiasa.ac.at/-Research/ADN/FishACE/Positions.html)

For more information, please contact Anna Gårdmark (anna.gardmark@fiskeriverket.se), or visit www.iiasa.ac.at/Research/ADN/FishACE. Applications should be sent, preferably by email, to jobb@fiskeriverket.se or Fiskeriverket, Box 423, SE-401 26 Göteborg, SWEDEN, at the latest October 10th, 2005. It should comprise a letter of application, a full CV, a list of publications, academic degrees, and contact details of two references.

Anna Gårdmark, PhD anna.gardmark@fiskeriverket.se
Institute of Coastal Research Swedish Board of Fisheries Box 109 SE-740 71 ÖREGRUND SWEDEN

Anna.Gardmark@fiskeriverket.se

UArizona BeetlePlantEvol

A post-doctoral fellowship is available from 15 January 2006, for a two-year period in the Department of Entomology at the University of Arizona. The topic of research is the ecology and evolution of the interaction between Blepharida beetles and their host plants the genus *Bursera* (Burseraceae). The successful candidate will design and conduct experiments directed at determining the evolutionary impact of insects on plant defenses and plant community composition, and the evolution of insect specialization. Other responsibilities include collaborate with graduate students and write manuscripts and grant proposals on this topic.

Requirements for this position are experience doing research on plant-herbivore interactions, experience raising insects and plants, and ample experience on statistical design and analysis. A proven publication record will also be of advantage. Application materials including a CV, a statement on research interests and experience, copies of relevant publications if available, and three letters of recommendation should be directed to: Dr. Judith Becerra, Department of Entomology, University of Arizona, Tucson AZ 85721. Selection of candidates will start on October 5th and will continue until position is filled. For inquiries please contact Judith Becerra becerra@ag.arizona.edu

The website with the job posting is: www.UACareerTrack.com/ . Look under Postdocs, Entomology.

Judith Becerra Department of Entomology University of Arizona Tucson, AZ 85721 <http://eebweb.arizona.edu/Faculty/Becerra/> Judith Becerra <becerra@Ag.arizona.edu>

UArizona EvolBiol

Position Available: Research Associate Arizona Research Laboratories, University of Arizona NIH-IRACDA Program in Postdoctoral Excellence in Research and Teaching (PERT)

Position Summary: Several positions are available in

the Postdoctoral Excellence in Research and Teaching (PERT) Program. This is a comprehensive program which offers up to three years of support to outstanding candidates seeking advanced post doctorate research training, teacher training and student mentorship in preparation for an academic career. PERT trainees may select from among over forty-two faculty research mentors representing a broad range of disciplines in biomedicine, bioengineering, genetics, biochemistry, neurobiology, evolutionary biology, molecular/cellular biology, physiology and behavior. The program stresses the use of non-vertebrate models for Biomedical and Life Sciences research. The program is administered through the Arizona Research Laboratories Division of the Center for Insect Science and is partnered with a Minority Serving Institution, Pima Community College. Starting salary for program participants with less than one year of postdoctoral experience will be \$35,568, with an annual allowance of \$6,000 for research supplies and \$1,500 for travel. Additional information about the Center for Insect Science and the PERT program is available at <http://cis.arl.arizona.edu/PERT>. Qualifications: Applicants must have a Ph.D. in a related field and must be U.S. citizens or permanent residents. Applicants should have no more than two previous years of postdoctoral experience. Underrepresented minorities are especially encouraged to apply.

Application Process: All applicants must apply electronically through the University of Arizona Career Track website at: <https://www.uacareertrack.com>, citing job #32236. All applications are to include: - a letter of interest with a statement explaining how the PERT program will assist the applicant in her/his career goals - a CV - a three to six page research proposal developed with the intended PERT faculty research mentor describing the project to be undertaken during the training period - three letters of reference - a letter of support from the intended faculty research mentor Please note: Original letters of reference and the faculty research mentor letter of support should be mailed to: PERT, Center for Insect Science, P.O. Box 210106, University of Arizona, Tucson, AZ 85721-0106. The letter of interest, CV and research proposal should be submitted on-line through the Career Track website. Review of applications will begin January 9, 2006 for appointments beginning thereafter and will continue until positions are filled. The University of Arizona is an EEO/AA/ADA Employer.

Teresa Kudrna PERT Coordinator Administrative Assistant Center for Insect Science University of Arizona 1007 E. Lowell Street P.O. Box 210106 Tucson, AZ 85721-0106 (520) 621-4923 FAX: (520) 621-2590

Teresa Kudrna <tkudrna@email.arizona.edu>

UArizona SquirtEvol

A two-year post-doctoral fellowship is available from 1 February 2006, at the University of Arizona to conduct research on the ecology and evolution of the squirt defense in the plant genus *Bursera* (Burseraceae). Members of this genus produce resins that are stored under pressure in canals that run throughout the cortex of the stems and in the leaves. The successful candidate will design and conduct experiments directed at measuring pressure inside canals, and understanding how pressure is built up in different species. He/she will also perform anatomical studies to study the evolution of canal arrangement in the genus and their consequences as anti-herbivore defenses. Other responsibilities include collaborate with graduate students and write manuscripts and grant proposals on this topic.

This is a nice opportunity to work at the interface between comparative ecology and physiology. Individuals with experience in plant anatomy and physiology are encouraged to apply. Knowledge on plant biophysics and a proven publication record will also be of advantage. Application materials including a CV, a statement on research interests and experience, copies of relevant publications if available, and three letters of recommendation should be directed to: Dr. Judith Becerra, Department of Entomology, University of Arizona, Tucson AZ 85721. Contact Judith Becerra at becerra@ag.arizona.edu.

Judith Becerra Department of Entomology University of Arizona Tucson, AZ 85721 <http://eebweb.arizona.edu/Faculty/Becerra/> Judith Becerra <becerra@Ag.arizona.edu>

UCDavis DrosophilaEvolGenetics

An NIH-funded postdoctoral position is available in the Begun laboratory at UC-Davis for investigation of natural genetic variation affecting female post-mating traits in *Drosophila melanogaster*. Previous experience in *Drosophila* genetics and evolutionary genetics/genomics is desirable. Applicants should send a

CV and the names/e-mail addresses/phone numbers of three references to djbegun@ucdavis.edu with the phrase "UC-Davis postdoc" in the subject line. The University of California is an Equal Opportunity/ Affirmative Action Employer. –

djbegun@ucdavis.edu djbegun@ucdavis.edu

UCDavis PlantPopGenetics

Department of Plant Sciences, University of California, Davis

Postdoc position available immediately to conduct data analysis (nucleotide diversity, linkage disequilibrium, neutrality testing, haplotype analysis, population structure) and manuscript writing for a pine resequencing project (10,000 genes). Salary ~\$42,000/yr. Send CV or contact Dr. David Neale (dbneale@ucdavis.edu, 530-754-8431).

debrogers@ucdavis.edu debrogers@ucdavis.edu

UCincinnati EvolEcol

Please consider the following advertisement and pass it on to interested colleagues:

A postdoctoral position in Evolutionary/Behavioral Ecology is available in the laboratory of Michal Polak at the University of Cincinnati (see <http://bioweb.ad.uc.edu/faculty/polak/index.html>). The successful candidate will conduct innovative research at the interface of genetics, reproductive physiology and behavior. Research may involve mechanisms and consequences of sexual selection and insect host-parasite interactions; this position is flexible however and will strive to accommodate the interests of the candidate. Position is for one year starting January 2006 with likely extension to June 2008 at a salary of \$US 35,000 per annum plus normal yearly increase and full benefits. To apply, send or email a cv, statements of research interests and career aspirations, and the names and addresses of three references by October 15, 2005, to Michal Polak, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006, USA; email: polakm@email.uc.edu. The University of

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

– Michal Polak, Ph.D. Associate Professor Department of Biological Sciences University of Cincinnati Cincinnati, OH 45221-0006 USA Tel: (513) 556-9736 <http://www.biology.uc.edu/faculty/polak/> Michal Polak <polakm@email.uc.edu>

UFloridaGainesville HumanMolGenetics

Postdoctoral position in Human Molecular Genetics

A NSF-funded postdoctoral position is available in Connie Mulligan's lab in the Department of Anthropology at the University of Florida in Gainesville, FL (<http://www.clas.ufl.edu/users/mulligan/Webpage/-index.html>). Research will focus on the genetic analysis of populations from the Horn of Africa and Arabia to reconstruct emergence of humans from Africa and more recent migrations across the Red Sea. Analyses will include the synthesis of genetic, cultural, linguistic, and archaeological data by drawing on expertise within the department and university as well as new modeling techniques. There are excellent opportunities for the successful candidate to develop new lines of research as well as productive collaborations outside the lab. A strong background in molecular genetics or evolution with experience in molecular methods (DNA sequencing, microsatellite analysis, SNP detection) is essential. Individuals with training in theoretical population genetics, statistical backgrounds, and programming skills are encouraged to apply.

The University of Florida is a leading research institution with a university-wide commitment to genetics research. A newly renovated and fully equipped molecular genetic laboratory is available. The Department of Anthropology (www.anthro.ufl.edu) has 35 full-time faculty with diverse interests and a very strong biological subfield, with emphases on molecular, paleo, and forensic anthropology. The department is one of the top rated programs in the country (6th among public institutions, 11th overall). The University of Florida Genetics Institute (www.ufgi.ufl.edu) is a new initiative with 10-20 new hires throughout the university that will enhance opportunities for collaboration. Gainesville is located in north central Florida (away from the hurricanes!), with average temperatures ranging from 45°F

to 90°F. Beaches on the gulf and Atlantic coast are only 1½ hours away.

Prospective candidates should send a letter of application including a CV, statement of research interests and experience, and the name and address (including email and phone) of three references to the address/email listed below. Review of materials will begin October 1 and will continue until the position is filled. Start date is flexible with an optimal start in Jan, 2006. Position may be extended for up to 2-3 years. Informal inquiries are also encouraged. AA/EOE.

– Connie J. Mulligan, PhD Associate professor Department of Anthropology 1112 Turlington Hall PO Box 117305 University of Florida Gainesville, FL 32611 Office: B119 Turlington Hall Tele: (352) 392-2253, ext 248 Fax: (352) 392-6929 email: mulligan@anthro.ufl.edu website: <http://www.clas.ufl.edu/users/mulligan/-Webpage/index.html> mulligan@anthro.ufl.edu

UFloridaGainesville ancientDNA

1 year postdoctoral position - ancient DNA investigation, African pastoralism and domestication

A NSF-funded postdoctoral position is available immediately in Dr. Connie Mulligan's lab in the Department of Anthropology at the University of Florida in Gainesville, FL. (<http://www.clas.ufl.edu/users/-mulligan/Webpage/index.html>). This research is in collaboration with and funded by Dr. Fiona Marshall, Washington University in St. Louis (http://www.artsci.wustl.edu/~anthro/blurb/b_marshall.html). Research will focus on the genetic analysis of early pastoral and ancient Egyptian specimens of donkey and African wild ass from museums around the world. By combining ancient DNA results with zooarchaeological and modern genetic data, we hope to discover when and where domestication of the donkey occurred. This will provide new insights into the development of African pastoralism, ancient Egyptian trade, and variation in domestication processes among large mammals. There are excellent opportunities for the successful candidate to develop new lines of research as well as productive collaborations outside the lab. A strong background in molecular genetics with experience in molecular methods (PCR and DNA sequencing) is essential. Experience with ancient DNA techniques is an advantage, but not required.

The University of Florida is a leading research insti-

tution with a university-wide commitment to genetics research. A newly renovated and fully equipped molecular genetic laboratory is available. The Department of Anthropology (www.anthro.ufl.edu) has 35 full-time faculty with diverse interests and a very strong biological subfield, with emphases on molecular, paleo, and forensic anthropology. The department is one of the top rated programs in the country (6th among public institutions, 11th overall). Gainesville is located in north central Florida (away from the hurricanes!), with average temperatures ranging from 45°F to 90°F. Beaches on the gulf and Atlantic coast are only 1½ hours away.

Prospective candidates should send a letter of application including a CV, statement of research interests and experience, and the name and address (including email and phone) of three references to the address/email listed below. Review of materials will begin immediately and will continue until the position is filled. AA/EOE.

– Connie J. Mulligan, PhD Associate professor Department of Anthropology 1112 Turlington Hall PO Box 117305 University of Florida Gainesville, FL 32611 Office: B119 Turlington Hall Tele: (352) 392-2253, ext 248 Fax: (352) 392-6929 email: mulligan@anthro.ufl.edu website: <http://www.clas.ufl.edu/users/mulligan/-Webpage/index.html> mulligan@anthro.ufl.edu

UJohannesburg DNABarcoding

DNA Barcoding Senior Project Officer

1-year Post-doctoral contract with possible extensions

Salary: ca. 120,000 ZAR per annum

Location: Department of Botany, University of Johannesburg, South Africa

Job description:

The purpose of the position is to create a DNA barcoding database for the flora of the Kruger National Park (South Africa) linked to other types of biodiversity data (distribution, images) for biodiversity research and conservation. The person will report to the principal scientist, Dr Michelle van der Bank (University of Johannesburg/Department of Botany and Plant Biotechnology, South Africa), and collaborator Dr Vincent Savolainen (Royal Botanic Gardens, Kew, UK).

The main duties and time allocated therefore are: (1) collect (fieldwork) and set up a dedicated DNA/tissue

bank for the flora of the Kruger National Park, with links to current initiatives at Kirstenbosch and Kew (Darwin Initiative Project for DNA banking in the Cape) (40%), (2) perform meta-analyses of DNA barcodes to assess plant genetic diversity patterns for species identification and conservation (30%), (3) organise DNA barcode data collection and help with supervision of Ph.D. and M.Sc. student projects in the Kruger National Park (25%), and (4) help complete a South African plant tree of life database with rbcL gene sequences (5%).

Essentials:

You should have a Ph.D. in biology or equivalent, very good knowledge of DNA sequencing techniques, conservation statistics, project management and data basing. Botanical knowledge is desirable. Very good communication skills are required for co-ordinating activities at UJ and Kew and to deal with park authorities and conservation officials at the Kruger National Park. You should also have high problem solving abilities to achieve the goals of this ambitious UJ and NRF funded project, and you must be able to work independently.

Closing date: 20 November 2005 for a start date in early 2006

To apply, please send by email a single pdf file (max. 2 A4-page) including a CV, letter of motivation and details of two references to Dr Michelle van der Bank (mvdb@na.rau.ac.za), with a copy to Dr Vincent Savolainen (v.savolainen@kew.org).

Dr Vincent Savolainen Molecular Systematics Section Royal Botanic Gardens, Kew Richmond, Surrey TW9 3DS London UK Tel +44-(0)20-8332-5366 Fax +44-(0)20-8332-5310 Email v.savolainen@kew.org

Join the Society of Systematic Biologists at //syst-biol.org/

Vincent Savolainen <v.savolainen@rbgkew.org.uk>

ULiverpool HostParasiteEvol

Post-doc position in my lab available on host-parasite genetics and evolution, part of a larger project involving several sites and allows the opportunity for training in genomics and bioinformatics, although some experience of molecular biology is essential.

Applications through the following link:

<http://uniwww.connect.org.uk/jobs/jb306748.html>

Job Description: We are seeking a Postdoctoral Researcher for up to three years. The position is available from 1 January 2006, supported by the Natural Environment Research Council. The work involves gene expression and population genetic analysis of the parasitic nematode *Strongyloides ratti*. You will have an interest in the genetics, evolution and ecology of host-parasite interactions and experience with molecular biology. The work will take place in laboratories in the School of Biological Sciences under the direction of Dr Steve Paterson.

Informal enquiries to Dr Steve Paterson on 0151-795-4521, email: S.Paterson@liv.ac.uk

Dr. Steve Paterson Lecturer in host-parasite biology School of Biological Sciences University of Liverpool LIVERPOOL, UK L69 7ZB

Tel. 0151 795 4521 Fax. 0151 795 4408 email s.paterson@liv.ac.uk Rm. 202 Biosciences Building <http://pcwww.liv.ac.uk/~stevep11/PatHome.html> Steve Paterson <S.Paterson@liverpool.ac.uk>

UMissouri Polyploidy

POSTDOCTORAL FELLOW IN EVOLUTIONARY GENOMICS OF POLYPLOIDY Division of Biological Sciences at the University of Missouri Date Posted: 09/07/05

A postdoctoral position is available in the area of polyploid genome evolution. What happens after the merging of two genomes? The applicant will investigate changes in genome structure and gene expression immediately after polyploidy formation in Brassica allopolyploids that have been resynthesized from well-characterized diploids. In collaboration with other institutions, the project includes QTL studies to analyze variation in flowering time and other traits, molecular cytogenetics of chromosomal rearrangements that affect phenotype, and microarray analyses with a focus on expression of duplicated genes in various plant tissues.

We are particularly interested in PhD level scientists who will interact with other labs in a collaborative NSF Plant Genome project on the genomics of polyploidy (<http://polyploid.agronomy.wisc.edu/-index.html>). A Ph.D. in evolution, genetics, plant molecular biology, or related fields is highly desirable. Ideal candidates should have experience with

a range of molecular biology techniques and some statistical background. The University of Missouri offers excellent opportunities in evolutionary biology (<http://www.biology.missouri.edu/>) and plant biology through the MU Interdisciplinary Plant Group (<http://www.plantgroup.org>). This project will be performed in the new Life Science Center, with fully equipped research core facilities.

The position is for 2-3 years with the possibility of extension. Applications will be considered until a suitable candidate is identified. Salary is commensurate with experience. Postdoctoral Fellows are eligible for group health benefits and additional information may be viewed at <http://www.system.missouri.edu/hrs/benefits.welcome.htm> Application Instructions: Interested candidates should email a cover letter including a brief description of overall research interests, CV, and the names and contact information of three references to Dr. J. Chris Pires at piresjc@missouri.edu.

J. Chris Pires Assistant Professor Division of Biological Sciences 371 B Life Sciences Center 1201 Rollins Road University of Missouri-Columbia Columbia, Missouri 65211-7310 Email: piresjc@missouri.edu Office: (573) 882-0619 FAX: (573) 884-9676 <http://www.biology.missouri.edu/> MU is an Affirmative Action/Equal Opportunity Employer

"J. Chris Pires" <piresjc@missouri.edu>

UNevadaReno EvolPhysiology

Postdoctoral Position(s) in Evolutionary Physiology

University of Nevada, Reno.

An NSF-funded postdoctoral position is immediately available in the laboratory of Jack Hayes to conduct artificial selection experiments on the basal and maximal metabolic rates of mice. The ultimate goal of these experiments is to test the aerobic capacity model for the evolution of endothermy. Applicants should have a Ph.D. and an interest in evolutionary physiology. Strong quantitative and computer skills are desirable as is the capacity to bring new perspectives to this project and the laboratory. Preference will be given to candidates that can begin by January 2006. Reno, Nevada, is located on the eastern slope of the Sierra Nevada and was recently rated the 9th best city to live in the United States. The Department of Biology has a strong group of ecologists and evolutionary biologists with whom to

interact. To apply, send a letter of interest, a cv, and email addresses for three references to jhayes@unr.edu. A second postdoctoral position to work on this project may become available soon. Benefits include health insurance and defined contribution retirement plan.

– Michael W. Sears, Ph.D. Postdoctoral Fellow Department of Biology MS 314 University of Nevada, Reno Reno, NV 89557

office: 775.784.8008 cell: 775.232.3520 web: <http://www.unr.edu/homepage/msears> "Blind commitment to a theory is not an intellectual virtue: it is an intellectual crime." –Imre Lakatos (1922-1974)

Mike Sears <msears@unr.edu>

UPotsdam EvolBiol

PostDoc position in Evolutionary Biology for 24 months, University of Potsdam In a project funded by the German Science foundation (DFG) we look for a qualified PostDoc (salary according to German BAT IIa-O) to be appointed for 24 month, starting as soon as possible (1st of November 2005 at the latest). In this project, the successful applicant will have to perform molecular genetic and genomic research for phylogenetic inference. The project is part of the DFG-priority program "Deep Metazoan Phylogeny". Applicants must hold a university degree (Diploma or Master of Science) and a PhD of a relevant topic. They should appreciate interdisciplinary research and cooperation with international project partners. Familiarity with modern molecular genetic techniques (PCR, cloning, marker development) as well as with phylogenetic data analysis is desired. Experience in Real-Time-PCR and in situ hybridization is beneficial. The University of Potsdam is an equal opportunity employer. If equally qualified, disabled applicants will be preferably considered. The University of Potsdam aims at increasing the number of female researchers and encourages qualified females to apply. Please send your application before 15th of September 2005 to: Prof. Dr. Ralph Tiedemann, University of Potsdam, Institute of Biochemistry and Biology, Evolutionary Biology/Systematic Zoology, Karl-Liebknecht-Str. 24-25, Haus 26, D-14476 Potsdam, Germany, Email: tiedeman@rz.uni-potsdam.de

Prof. Dr. Ralph Tiedemann Universitaet Potsdam Institut fuer Biochemie und Biologie Evolutionsbiologie/Spezielle Zoologie Karl-Liebknecht-Str. 24-25, Haus 26 D-14476 Potsdam Germany Tel: +49-331-977-

5249, -5253 (Sekretariat) Fax: +49-331-977-5070 Email
 tiedeman@rz.uni-potsdam.de

<http://www.bio.uni-potsdam.de/spezzoo/index.htm>
 Ralph Tiedemann <tiedeman@rz.uni-potsdam.de>

UVienna StatGenetics

Research Positions in Statistical Genetics

Applications from highly qualified candidates are invited for two research positions (one at Ph.D. and one at Post-Doc level) at the University of Vienna. Two year contracts are offered for both positions.

The successful candidates will be part of the research project Mathematics and Evolution: Mathematical and Statistical Analysis of Ecological and Genetic Diversity, aiming at a close interaction between mathematics, statistics, and evolutionary genetics and ecology. (Associated researches are: Reinhard Bürger, Ulf Dieckmann, Andreas Futschik, Christian Schlötterer.) Upon appointment, the applicants are expected to participate in the development and evaluation of statistical methods for genomic approaches aiming at the identification of selected genomic regions (hitchhiking mapping).

Qualifications:

Ph.D. position: A master degree either in statistics, or in mathematics, or in evolutionary genetics; high motivation for interdisciplinary research on the development and evaluation of statistical methodology for population genetic problems. Strong background in computer programming.

Post-Doc position: A doctorate and some research experience in one of the above mentioned fields; interest in statistics and population genetics; research experience documented by publications is desirable.

The starting date of the contract is negotiable and should be between January and July 2006. The salary follows the university scheme for researchers at the respective levels of qualification. For a Ph.D. position, this is about 27.600 Euros per year (before taxes and social insurance), for a Post-Doc, it is about Euro 45.800 Euros (before taxes and social insurance).

Applicants should send a statement of research interest including possible starting dates, a curriculum vitae including publications, and two reference letters either by mail or by e-mail to:

Dr. Andreas Futschik Dept. of Statistics University of Vienna Universitaetsstr. 5/9, A-1010 Vienna Austria
 e-mail: andreas.futschik@univie.ac.at

The search will continue until both positions are filled.

WorkshopsCourses

CamarinoItaly microarray workshop Sept19-21 78	Rotterdam GeneticLinkage2 Feb20-24 79
Rotterdam GeneticEpidemiology Oct24-Nov18 79	ULausanne HumanCooperation Mar9-10 80
Rotterdam GeneticLinkage Feb13-17 79	

CamarinoItaly microarray workshop Sept19-21

There are still places available for the microarray and

molecular ecology workshop to be held 19-21 Sept in Camarino Italy register at this website <http://web.unicam.it/micropad/public/workshop.asp> – thank you for your consideration

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

Tel. 49-471-4831-1443 Fax. 49-471-4831-1425 see my homepage for latest trees etc. <http://www.awi-bremerhaven.de/Biomeer/molecular-genetics-e.html>

Wise words of the day “Those who do not stop asking silly questions become scientists.” -Leon Ledermen, physicist

“A ‘No’ uttered from deepest conviction is better and greater than a ‘Yes’ merely uttered to please, or what is worse, to avoid trouble.” - Mahatma Gandhi

linda medlin <lkmedlin@awi-bremerhaven.de>

Rotterdam GeneticEpidemiology Oct24-Nov18

Course:

Genetic-epidemiologic Research Methods October 24 - November 18, 2005 Netherlands Institute for Health Sciences Rotterdam, The Netherlands

“Genetic-epidemiologic Research Methods” aims to introduce participants to the basic principles of genetic epidemiological research. The first part of the course is dedicated to binary traits, covering the basics of probability theory, hypothesis testing, risk calculation in families, and principles of complex segregation analysis. The second part of the course focuses on the genetics of quantitative traits, covering the concept and estimation of heritability and basic quantitative trait linkage analysis using modern genetic analysis softwares such as SOLAR and MERLIN. In the third part of the course design of genetic epidemiological studies will be discussed. This will be illustrated by practical examples.

Faculty involved: Yurii Aulchenko, Cornelia van Duijn and Simon Heath

Application deadline: 10 October 2005 Application code: GE02

Course fee: 1.250 (50% discount for CMSB and GeNeYouS members)

For further details and an application form, please visit our website: www.nihes.nl > Short Courses

f.sayed@erasmusmc.nl f.sayed@erasmusmc.nl

Rotterdam GeneticLinkage Feb13-17

Course:

Genetic Linkage Analysis: Model Based Analysis (GE04) February 13 - 17, 2006 Netherlands Institute for Health Sciences Rotterdam, The Netherlands

“Genetic Linkage Analysis: Model Based Analysis” aims to give an introduction to the analysis of pedigree data. Different approaches for gene mapping via linkage analysis are discussed. The course deals with the design, planning and statistical analysis of a gene mapping study. Specific issues that are addressed include incomplete penetrance and genetic heterogeneity. The potential of the methods for mapping genes for complex diseases is discussed. The course will cover computer simulations for power estimation. A major part of the teaching program will consist of hands-on computer exercises using free software such as LINKAGE.

The course is designed for epidemiologists, geneticists, biostatisticians, investigators/physicians involved in clinical and pharmacological research who have a basic familiarity with PC-compatible computers.

Faculty involved: Yurri Aulchenko, Cornelia van Duijn, Suzanne Leal and Bertram Müller-Myhsok

Application deadline: 30 January 2006 Application code: GE04

Course fee: 725 (50% discount for CMSB and GeNeYouS members)

For further details and an application form, please visit our website: www.nihes.nl > Short Courses

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Rotterdam GeneticLinkage2 Feb20-24

Course:

Genetic Linkage Analysis: Model Free Analysis (GE05) February 20 - 24, 2006 Netherlands Institute for Health Sciences Rotterdam, The Netherlands

“Genetic Linkage Analysis: Model Free Analysis” is or-

ganized for researchers with a background in genetic epidemiology and/or statistics. The focus of the course is on theoretical background and practical issues in sib-pair studies of complex genetic traits. Both qualitative outcomes (e.g. diseases) as well as quantitative (continuous) traits are addressed. For quantitative traits Haseman-Elston methods and maximum likelihood estimation of variance components are discussed. Other issues covered are the inclusion of covariates, extreme sampling, and the generalization to other pedigree structures. Different approaches for gene mapping via sib-pair studies are discussed in terms of efficiency and statistical power.

The teaching program consists mainly of hands-on exercises using computer programs that are available on the internet such as GENEHUNTER, SPLINK and STATA.

Faculty involved: Yurri Aulchenko, Heather Cordell and Peter Holmans

Application deadline: 6 February 2006 Application code: GE05

Course fee: 625 (50% discount for CMSB and GeNeYous members)

For further details and an application form, please visit our website: www.nihes.nl > Short Courses

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U Lausanne Human Cooperation Mar9-10

Human altruism: more for less!

We are pleased to announce a symposium on
THE NATURE OF HUMAN COOPERATION
March 9-10 2006

University of Lausanne, Switzerland

Humans are extremely cooperative, yet there is still much controversy about the mechanisms by which cooperation evolved. The aim of the symposium will be to discuss current issues on the evolution of cooperation from a multidisciplinary perspective, with a particular focus on the role of punishment and social norms.

Invited speakers:

Samuel Bowles (Santa Fe Institute) Robert Boyd (University of California Los Angeles) Leda Cosmides (University of California Santa Barbara) Ernst Fehr (University of Zürich) Daniel Fessler (University of California Los Angeles) Herbert Gintis (Santa Fe Institute) Peter Hammerstein (Humboldt University Berlin) Karl Sigmund (University of Vienna) Joan Silk (University of California Los Angeles) John Tooby (University of California Santa Barbara, Robert Trivers (Rutgers University)

Organizers: Michel Chapuisat, Laurent Keller, Johannes Bronkhorst, Jacques Dubochet, Jérôme Goudet and Nicolas Perrin

The symposium will consist of plenary talks by invited speakers and discussion groups.

There will be no registration fee, but participants should register before February 22th 2006. For additional information and registration, go to <http://www.unil.ch/dee/page25289.en.html> Laurent Keller Department of Ecology and Evolution BB University of Lausanne 1015 lausanne Switzerland

<http://www.unil.ch/dee/page6763.html> Laurent.Keller@unil.ch Laurent.Keller@unil.ch

Instructions

Instructions: To be added to the EvoDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only

be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvoDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

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

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be 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 preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.