
E v o l D i r

December 1, 2006

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

Forward

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

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

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



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Antalya Turkey HealthBioinformatics Apr30-May2

International Symposium on Health Informatics and Bioinformatics, Turkey '07

The next international HIBIT (Health Informatics and Bioinformatics) conference will be held in Antalya, Turkey, between April 30 - May 2, 2007. More information can be found at <http://hibit.ii.metu.edu.tr>

Res. Asst. Ceren CANER BERKMAN Department of Biological Sciences Middle East Technical University Inonu Bulvari 06531 Ankara/TURKEY

Ceren Berkman <cerenberkman@yahoo.com>

formatics and Bioinformatics, Turkey'07" that will be held in Antalya, Turkey, on April 30- May 2, 2007. It has the names of the eminent key- note speakers and distinguished lecturers. The further updates on the conference information can be checked on our website: <http://hibit.ii.metu.edu.tr>

I would like to use the opportunity to remind you that the deadline for the full paper submission is December 1, 2006.

Best regards,

Prof. Nese Yalabik, Conference Chair, Informatics Institute Ankara

Phone: + 90 312 210 55 65 e-mail: yalabik@ii.metu.edu.tr

Res. Asst. Ceren CANER BERKMAN Department of Biological Sciences Middle East Technical University Inonu Bulvari 06531 Ankara/TURKEY

Ceren Berkman <cerenberkman@yahoo.com>

Antalya Turkey HealthBioinformatics Apr30-May2 2

Dear Colleagues,

We are happy to send you the second call for papers concerning the "International Symposium on Health In- 05/11/06

Bangkok MEEGID VIII Nov30-Dec2 2

MOLECULAR EPIDEMIOLOGY AND EVOLUTIONARY GENETICS OF INFECTIOUS DISEASES (MEEGID). 8th session Bangkok, Thailand, 30th November-2nd Decembe

Still time to register ! Some slots still available for oral presentations and posters. Deadline prolonged until 20th November.

Infectious diseases are a key model for evolutionists. It is considered that they have been the main selective pressure on the human species for the last 5,000 years. Our genome has been literally sculpted by this selection process.

Coevolution between host, pathogen and vector in the case of vector-borne diseases is one of the main scopes of the MEEGID congress.

This is the reason why, besides its high interest for applied biomedical research (epidemiology, vaccine and drug design), the MEEGID congress has become a major event for evolutionists. The only congress where you will hear of host, bacteria, viruses, parasites, fungi, all species of vectors. Of diseases of medical, veterinary, agronomic relevance. Of genetics, genomics, proteomics, population dynamics, evolution and bioinformatics. Where you will meet specialists of all these fields

More information, constantly updated, at <http://www.th.ird.fr/events/2006/meegid.htm> See you soon in Bangkok!

Michel Tibayrenc, MD, PhD Editor -in-chief Infection, Genetics and Evolution (Elsevier) <http://www.elsevier.com/locate/meegid> Impact factor 2005 evaluated by Elsevier: 3.554 IRD representative in Thailand IRD Representative Office French Embassy 29, Thanon Sathorn Tai, Bangkok 10120, Thailand Tel : + (66 2) 627 2190 Fax : + (66 2) 627 2194 Cel: + (66 1) 82 64 056 E-mail : (direct): Michel.Tibayrenc@ird.fr (secretary) ird_th@ksc.th.com Website : <http://www.th.ird.fr> Michel.Tibayrenc@ird.fr

CanaryIls MarineBiodiversity

Travel Awards for Paleoscientists in Historical Marine Biogeography and Biodiversity

To attend the 3rd Biennial Conference of the International Biogeography Society Casino Taoro, Puerto de la Cruz, Tenerife, Canary Islands (Spain)

<http://www.biogeography.org/3rd%20conference.htm>

Funding for awards is provided by Past Global Changes (PAGES) <http://www.pages-igbp.org/about/index.html> Approximately 5 awards will be made to promote new collaborations between paleoscientists, who have expertise that can elucidate the historical processes that have contributed to modern patterns of marine biodiversity and biogeography, and neontologists studying those modern patterns using molecular and organismal data. Specifically, awardees are invited to collaborate with the six speakers in the Maritime Connectivity symposium (see below). Collaborators will have the option to submit co-authored manuscripts for publication in a peer-reviewed special issue of the Journal of Biogeography. The long-term goal of the awards is to stimulate initiatives that will enhance understanding of the interaction between paleontological and neontological processes in generating modern patterns of maritime connectivity and therefore may elucidate the impacts of future global changes.

The awards will cover or defray costs of attending the meeting. Some priority will be given to young scientists (graduates and post-docs) and/or scientists from developing countries, but more senior paleoscientists from developed countries are also invited to apply.

Applications should include, in the following order, (1) a cover letter, including your choice of the 2 talk topics on which you most desire to collaborate, (2) a 500 word summary of your most relevant work, (3) a budget request for travel, accommodation, registration, and food for the conference, plus IBS membership fee, including a statement of other funding available, and (5) your CV. Please send applications as a single PDF document titled "Applicant-Lastname.initials_app.pdf" to Dr. Michael N Dawson <mdawson@ucmerced.edu>, and cc'd to Dr. John P. Wares <jpwares@uga.edu> and Ms. Anuschka Fauci <anuschka@hawaii.edu> (the symposium organizers). Please also arrange for letters of recommendation from two people knowledgeable of your work to be emailed (as PDFs titled "ApplicantLastname.initials_RecommenderLastname.pdf") directly to all organizers.

Applications that arrive in California later than, or are incomplete at, 2359 hrs on 03rd December 2006 will not be considered. Awards will be announced 15th December 2006. The conference dates covered by the awards are 9th-12th January 2007 (i.e. up to 4 nights).

Symposium information:

Title: Marine Connectivity: Reconciling Models of Dispersal and Vicariance

Topic: Integrative analyses for understanding the influences of past and recent (and inferred future) biological and physical processes on marine biogeography and biodiversity, at the nexus of major initiatives such as DIVERSITAS (bioDISCOVERY and bioGENESIS), MarBEF, and PAGES (IMAGES).

Timescales covered: Pleistocene, Holocene, recent past, and assessing inferences for the future

Overview: The modern distribution of marine species has been strongly affected by glacial and interglacial events during the Pleistocene that likely promoted alternating periods of vicariance and dispersal (respectively). In cold temperate regions, glacial and interglacial events also forced southward contraction then allowed northward expansion of species ranges. Thus periods of increased isolation and range contraction alternating with periods favoring dispersal and range expansion have created a complex temporal and spatial mosaic of species histories. These histories are recorded, in part, in patterns of genetic variation among populations and, in part, in fossil and subfossil records of species distributions and paleoenvironments.

Our goal is to integrate molecular and paleontological information, including paleoceanography, to understand post-Pliocene factors influencing connectivity' (a term used here to describe the continuum from isolation to panmixis) in marine taxa. A team of international researchers will provide syntheses describing the history of coastal and oceanic marine species including fossil-forming taxa such as foraminifera, molluscs, and fishes, and soft-bodied invertebrates and algae. Issues we seek to clarify include: How integrating molecular and paleontological data improve reconstruction of the biogeographic histories of marine species and mutually enrich these oftentimes separate disciplines. Whether fossil-forming taxa can act as good models for interpreting the evolutionary histories of soft-bodied organisms.

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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>

CanaryIls MarineBiodiversity 2

Travel Awards for Paleoscientists in Historical Marine Biogeography and Biodiversity

To attend the 3rd Biennial Conference of the International Biogeography Society Casino Taoro, Puerto de la Cruz, Tenerife, Canary Islands (Spain) <http://www.biogeography.org/3rd%20conference.htm>

Funding for awards is provided by Past Global Changes (PAGES) <http://www.pages-igbp.org/-about/index.html> As an amendment to the application procedure (in its original form below) please note that post-docs may substitute one publication for one letter of recommendation (i.e. send a letter and a PDF reprint), faculty may substitute publications for both letters. Publication files should be titled "ApplicantLastname_initials_year.pdf"

Original description: Applications should include, in the following order, (1) a cover letter, including your choice of the 2 talk topics on which you most desire to collaborate, (2) a 500 word summary of your most relevant work, (3) a budget request for travel, accommodation, registration, and food for the conference, plus IBS membership fee, including a statement of other funding available, and (5) your CV. Please send applications as a single PDF document titled "ApplicantLastname_initials_app.pdf" to Dr. Michael N Dawson <mdawson@ucmerced.edu>, and cc'd to Dr. John P. Wares <jpwares@uga.edu> and Ms. Anuschka Fauci <anuschka@hawaii.edu> (the symposium organizers). Please also arrange for letters of recommendation from two people knowledgeable of your work to be emailed (as PDFs titled "ApplicantLastname_initials_RecommenderLastname.pdf") directly to all organizers.

mdawson@ucmerced.edu

ChristchurchNZ SEE2007 June16-20

Applications for the 2007 Theodosius Dobzhansky Prize The Theodosius Dobzhansky Prize is awarded annually by the Society for the Study of Evolution to recognize the accomplishments and future promise of an outstanding young evolutionary biologist. The prize was established in memory of Professor Dobzhansky by his friends and colleagues, and reflects his lifelong commitment to fostering the research careers of young scientists.

Eligibility The candidate must have a Ph.D. (or equivalent) awarded no earlier than June 2004 and no later than 1st February 2007, and must be actively involved in research in the field of evolutionary bi-

ology. There are no other restrictions. Applicants do not have to be members of the Society for the Study of Evolution, but such membership is encouraged. Nomination/Application.- Candidates may apply directly or may be nominated. Established researchers are encouraged to nominate outstanding young scientists who may be unaware of the existence and prestige of this prize. Each candidacy must be supported by the following materials detailing the candidates career to date: (1) a curriculum vitae, (2) a summary of research accomplishments, (3) a statement of research plans for the next 5 years, (4) pdf copies of three recent publications, (5) names and addresses of the three referees (including the nominating scientist where applicable) who have sent supporting letters. N.B.: THE THREE LETTERS OF REFERENCE ARE SENT SEPARATELY, but no application will be considered without these letters. All application/nomination materials and letters of reference must be sent as PDF e-mail attachments. No file type other than PDF will be accepted. The deadline for receipt of all materials, including letters of reference, is 15 February 2007. All materials should be sent to the secretary of SSE (Dale H. Clayton) at the following email address: careymadsen@bioscience.utah.edu

Award.- The Dobzhansky Prize is accompanied by a check for U.S. \$5000, and will be awarded at the annual meeting of the Society for the Study of Evolution, 16-21 June 2007, in Christchurch, New Zealand. The recipient is expected to be present to receive the award and to give an oral presentation about his/her research. To facilitate attendance, the SSE provides funds to cover the costs of conference registration, accommodation during the conference, and expenses for travel to and from the conference. The recipient will be notified of the award by late March 2007.

2007 Annual Meeting Announcement

The 2007 joint meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN) will be held from June 16 to June 20 at the Christchurch Convention Centre in Christchurch, New Zealand. The program will include plenary addresses, concurrent contributed papers, symposia and poster sessions. As this is the first time this scientific meeting has been held outside North America, the local organizing committee is determined to ensure that Evolution 2007 provides the ideal forum for the presentation and exchange of scientific information while offering delegates a unique and enjoyable New Zealand experience.

Information on the meeting registration, schedule, accommodations, and submission of titles for talks and

abstracts will be posted on the conference web site at: <http://www.evolution2007.com> . For further information on the Scientific Program contact Prof. David Lambert D.M.Lambert@massey.ac.nz

For further information on conference planning, accommodation, activities, venue, local and international travel, tours etc. contact Dr Ian Anderson I.L.Anderson@massey.ac.nz

For Dr. Dale Clayton clayton@biology.utah.edu Secretary, Society for the Study of Evolution

Carey Madsen careymadsen@bioscience.utah.edu

Department of Biology University of Utah 257 So. 1400 E. Room 308 ASB Salt Lake City, UT 84112-0840

Tel 801-585-1791 Fax 801-581-2174

Carey Madsen <careymadsen@bioscience.utah.edu>

ChristchurchNZ SSE2007 StudentTravelAwards

2007 New Zealand Meeting Student Travel Awards

The Society for the Study of Evolution (SSE) is providing Travel Awards for 60 student SSE members to attend the 2007 Annual Meeting in New Zealand. The awards will be \$750 US dollars each. Students will be able to use the award to defray travel or other meeting costs. An application form can be found on the SSE website at <http://www.evolutionsociety.org> <<http://www.evolutionsociety.org/>> . The deadline for applying is January 15, 2007.

For Dr. Dale Clayton clayton@biology.utah.edu Secretary, Society for the Study of Evolution

Carey Madsen careymadsen@bioscience.utah.edu

Department of Biology University of Utah 257 So. 1400 E. Room 308 ASB Salt Lake City, UT 84112-0840

Tel 801-585-1791 Fax 801-581-2174

Carey Madsen <careymadsen@bioscience.utah.edu>

Edinburgh SystematicsAssoc BiennialConfBursaries

The organising committee of the 6th Biennial Conference of the Systematics Association would like to draw students' attention to the bursaries available to those wishing to participate in the conference. Allocation of bursaries is competitive, based on assessment of an abstract that must be submitted by 31 December 2006, for decisions in January 2007. The awards will contribute to the costs of registration, accommodation, and subsistence for successful applicants.

Current research students and those graduating since 1 August 2006 are eligible to apply for bursaries to attend the 2007 conference. Conference information, including details of the application procedure for student bursaries, is available from <http://www.systass.org/biennial2007/index.html> or contact edinburgh.biennial@systass.org.

The Systematics Association meetings are for all systematists from all disciplines - research students and younger post-doctoral fellows are especially welcome.

edinburgh.biennial@systass.org

KentStateU MidwestEE Mar9-11

All graduate students, undergrads, and post-docs are cordially invited to the 27th Annual Midwest Ecology and Evolution Conference hosted by Kent State University in Kent, Ohio (9-11 March 2007). Sessions include but are not limited to various Ecology, Evolution, and Systematics sessions, Physical/Biological Anthropology, and Paleoecology. For more information and to register visit us at www.midwesteec.org. The registration deadline is February 19, 2007. Please feel free to email Jennifer Clark with questions at mec2007@hotmail.com.

Jennifer M. Clark Ph.D. Candidate-Aquatic Ecology
Department of Biological Sciences Kent State University
Lab: (330)672-9189

jmclark2@kent.edu

KewGardens PlantGenomeHorizons Apr16-17

PLANT GENOME HORIZONS - VISTAS AND VI-

SIONS

16 - 17th April 2007

Jodrell Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey UK

We are organizing a conference to mark Professor Mike Bennett's retirement and to celebrate his scientific career, both at Kew and before. The meeting is entitled "Plant Genome Horizons - Vistas and Visions", and it will take place on 16-17th April 2007 in the Jodrell Laboratory.

Already invited speakers include

MW Chase, HG Dickinson, MF Fay, D Francis, J Greilhuber, JP Gustafson, JS Heslop-Harrison, G Jenkins, N Jones, IP King, AR Leitch, G Moore, BG Murray, HW Pritchard.

Speakers will talk about some of the many fields in which Mike Bennett has worked (including nuclear architecture, genome size and the nucleotype hypothesis, cell cycle timing and control, polyploidy, haploids and wide hybridization etc.) providing not only some historical overview but also insights and visions into what the future may hold.

We are still in the final stages of planning the conference, but if you would like to register an interest to receive further information please email Marcia Tolfts at m.tolfts@kew.org.

Dr Michael F. Fay Head of Genetics/Chair of IUCN Orchid Specialist Group Jodrell Laboratory Royal Botanic Gardens Kew, Richmond Surrey, TW9 3DS UK Tel. (office) (+44) (0)20 8332 5315 Fax (+44) (0)20 8332 5310/3717 email m.fay@kew.org

Robyn Cowan Conservation Genetics Scientist Jodrell Laboratory RBG Kew, Richmond, Surrey, TW9 3AB, UK Tel: 020 8332 5355/5341 email:r.cowan@rbgkew.org.uk

r.cowan@rbgkew.org.uk

Manchester PopGenet Jan9-12 deadline

If you have not yet registered but would like to attend the Population Genetics Group meeting to be held in Manchester, UK, in January 2007, this is a reminder that the deadline for early registration is 26th November and fast approaching. You can still register online

until 15th December (room availability permitting) but there is a late booking fee.

The url for registration is:

<http://www.bioinf.man.ac.uk/PopGroup2006/> If you have any problems/questions, please contact Cathy Walton at catherine.walton@manchester.ac.uk

Cathy Walton University of Manchester

Catherine.Walton@manchester.ac.uk
ine.Walton@manchester.ac.uk

Cather-

yond Humans and Model Organisms * Computational Proteomics: High-throughput Analysis for Systems Biology * Protein-DNA Interactions: Integrating Structure, Sequence, and Function * Computational Approaches to Metabolomics * New Frontiers in Biomedical Text Mining * Protein Interactions in Disease

For more information, and to submit your abstract, please visit <http://psb.stanford.edu>

Bj Morrison <bj@sdsc.edu>

Marseilles 11EBM Sep18-21 registration

Dear all The abstracts submission and registration for the 11th Evolutionary Biology Meeting at Marseilles are now open

<http://www.up.univ-mrs.fr/evol-cgr/> best regards

– Pierre Pontarotti EA 3781 Evolution Biologique Université d’Aix Marseille I Centre St Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 33491106489 <http://www.up.univ-mrs.fr/evol>

Pierre.Pontarotti@up.univ-mrs.fr

Maui Hawaii PacificSympBiocomputing Jan3-7

Pacific Symposium on Biocomputing Maui, Hawaii, Jan 3-7, 2007

* FINAL CALL FOR ABSTRACTS *

The deadline for abstract submission for the Pacific Symposium on Biocomputing (PSB) is November 10, 2006, and the early registration deadline has been extended to match. If you want to present your research at this exciting multidisciplinary conference, you must register and submit your abstract by this Friday!

The upcoming 12th PSB promises to once again present ground-breaking new research across the entire range of computational biology. This year’s conference sessions are:

* Biodiversity Informatics: Managing Knowledge Be-

StonyBrook Evol Philosophy Mar10

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

The idea is to explore why, if at all, scientists should care about what philosophers say about science. Is philosophy of science a discipline that should matter, however tangentially, to practicing scientists? Is it an independent area of study largely independent of science proper? What are the various domains of scholarship and teaching of the two disciplines, and how should they intersect?

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

Abstracts should be around 200-300 words, and should be sent to massimo.pigliucci@stonybrook.edu by December 15, 2006. Authors whose abstracts will be accepted will be asked to present for about 20 minutes, with 10 minutes of Q&A after each presentation.

Sincerely, Massimo Pigliucci (SBU-Ecology & Evolution, massimo.pigliucci@stonybrook.edu) Robert Crease (SBU-Philosophy, rcrease@notes.cc.sunysb.edu)

massimo.pigliucci@sunysb.edu

UCLosAngeles
IntlSummitEvolChange Feb8-10 4

To Whom it May Concern,

The UCLA Institute of the Environment is hosting an international summit on February 8 - 10th that may be of interest to you and your organization. Please post this notice or circulate it to environmental scientists and policy makers, conservation scientists and professionals in your organization. Further, any assistance in helping us to disseminate information about this outstanding symposium is greatly appreciated! Thank you!

Kathleen Morgan

Evolutionary Change in Human-altered Environments: An International Summit to Translate Science into Policy Thursday, February 8, - Saturday, February 10, 2007 University of California, Los Angeles Sponsored by the Institute of the Environment

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

In response to this developing crisis, we are convening an international summit of evolutionary biologists, conservation practitioners, and policy makers to synthesize current knowledge and to begin to develop plans to mitigate the effects. The summit will feature talks from more than 40 top evolutionary biologists, poster presentations, and working groups. A central goal of the summit is to bring the discussion beyond academic boundaries to frame real-world solutions to these problems. For more information, to register, go to our website at: <<http://www.ioe.ucla.edu/CTR/-ioesymposium.html>> Organized by Thomas Smith and Louis Bernatchez.

Limited travel grants for graduate students and post-doctoral fellows are available. Please visit our website for more information.

There is a printable version of the symposium announcement online too!

Kathleen Morgan Program Manager David Geffen School of Medicine at UCLA Office of Continuing Med-

ical Education 10920 Wilshire Blvd. Suite 1060 Los Angeles, CA 90024-6512 kjmorgan@mednet.ucla.edu
Phone: 310-794-3088 or 2620 Fax: 310-794-2624

“Morgan, Kathleen J.”
<KJMorgan@mednet.ucla.edu>

UCentralFlorida
SoutheasternEcologyEvolution
Mar16-18

All graduate students, undergrads, and post-docs are cordially invited to the 3rd annual Southeastern Ecology and Evolution Conference hosted by the University of Central Florida, Orlando (16-18 March 2007). Sessions include but are not limited to various topics including ecology: community, ecosystem, population and behavioral; evolution: phylogenetics, behavior; conservation: genetics, biodiversity and climate change. For more information and to register visit us at <http://biology.ucf.edu/seec/>. Early registration and abstract deadlines are February 16, 2007. The website is currently under construction, however registration and other links will be made available as soon as possible.

Weve attached a conference flyer. Please post it widely and forward this email to all students who may be interested. The success of SEEC requires participation. We hope that those of you who have participated in the past will encourage your peers to join in this rare opportunity to learn, share and network with future colleagues.

We look forward to seeing you in March!

Biology Graduate Student Association & The University of Central Florida Biology Department

SEEC 2007 <seec2007@mail.ucf.edu>

UGroningen FishSpeciation Dec8

FISH, BEHAVIOUR AND SPECIATION

8 December 2006, Research Group Behavioral Biology, The University of Groningen, The Netherlands

Speakers:

Ole Seehausen (EAWAG and University of Bern)
 Michael Taborsky (University of Bern) Nand Sibbing
 (Wageningen University) Franjo Weissing (University
 of Groningen) Peter Dijkstra (University of Groningen)

Location: Biological Centre, University of Groningen
 Kerklaan 30, Haren, The Netherlands

Entrance is free

For more information and registration please email Pe-
 ter Dijkstra at P.D.Dijkstra@rug.nl

Peter Dijkstra <P.D.Dijkstra@rug.nl>

UNewSouthWales AustAsianEvolSoc Jun12-15

First Announcement: Australasian Evolution Society
 5th Conference - 12-15 June 2007 The University of
 New South Wales

We are pleased to announce that the next meeting of
 the Australasian Evolution Society will be held at the
 University of New South Wales in Sydney in June 2007.
 The welcome reception on Tuesday 12 June will be fol-
 lowed by a three-day program, culminating with a func-
 tion on Friday 15 June. We are also pleased to confirm
 our plenary speakers: * Lindell Bromham (Australian
 National University) * Scott V. Edwards (Harvard Uni-
 versity) * Paul B. Rainey (The University of Auckland)
 * Michael Ruse (Florida State University)

UNSW is situated in the eastern suburbs of Sydney,
 near to Coogee, Clovelly and Maroubra beaches. There
 are many excellent restaurants and a choice of hot-
 els and accommodation options in nearby Randwick,
 Coogee and Kensington.

A call for papers will be sent out early in 2007. Regis-
 ter your interest by joining the AES or renewing your
 membership at www.evolutionau.org. The conference
 price will be discounted for members by more than the
 modest 2006-7 membership fee.

The conference will immediately precede "Evolution
 2007", the joint annual meeting of the Society for the
 Study of Evolution (SSE), the Society of Systematic Bi-
 ologists (SSB), and the American Society of Naturalists
 (ASN). These meetings are being held in Christchurch,
 New Zealand from 16-20 June 2007.

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 The University of New South Wales Kensington, Syd-

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 +61-2-9385-1558 [http://www.bees.unsw.edu.au/-
 school/staff/brooks/brooksrob.html](http://www.bees.unsw.edu.au/-school/staff/brooks/brooksrob.html) Australasian
 Evolution Society: <http://www.evolutionau.org>

rob.brooks@unsw.edu.au rob.brooks@unsw.edu.au

UOttawa AdaptiveDynamics May7-9

This is the first announcement of a 3-day Fields Insti-
 tute workshop on Adaptive Dynamics, held at the Uni-
 versity of Ottawa, May 7-9, 2007. Confirmed invited
 speakers are

Martin Ackermann (ETH Zürich) Troy Day (Queens
 University) Michael Doebeli (UBC Vancouver) Richard
 Law (York, UK)

Details can be found online at

[http://www.mathstat.uottawa.ca/~fluts037/FIELDS/-
 fieldsworkshop.html](http://www.mathstat.uottawa.ca/~fluts037/FIELDS/-fieldsworkshop.html) Frithjof Lutscher Department of
 Mathematics and Statistics University of Ottawa

Frithjof.Lutscher@uottawa.ca

www.science.uottawa.ca/~fluts037 Frithjof Lutscher
 <flutsche@uottawa.ca>

USheffield Sepciation Mar30

British Ecological Society Annual Symposium

SPECIATION AND ECOLOGY

University of Sheffield, 28 - 30 March 2007

Organisers: Roger Butlin, Jon Bridle and Dolph
 Schluter

Biological diversity varies enormously in time and
 space. Ultimately, diversity is generated by speciation
 and lost by extinction. So, how much do we need to
 know about the mechanisms of speciation in order to
 understand patterns of diversity? Is speciation typi-
 cally driven by ecological opportunity? Does this im-
 ply that adaptive radiation occurs in empty environ-
 ments and the rate of speciation declines as diversity
 increases? Alternatively, if speciation is driven by frag-
 mentation of populations or by sexual selection, how
 does this interact with extinction to explain current di-

versity? Does speciation generate ecologically equivalent units with equal probabilities of persistence?

This meeting aims to tackle these and similar questions in the light of recent advances in understanding of speciation mechanisms and the factors that influence speciation rates.

Invited speakers: Jody Hey, Tim Barraclough, Graham Bell, Tom Curtis, Trevor Price, Doug Schemske, Sergey Gavrilets, Patrik Nosil, Ole Seehausen, Jim Mallet, Dan Funk, Bob Ricklefs, Andrew Purvis, John Alroy and Kate Willis.

Booking for this meeting is now open, please click on the link below. The deadline for booking is 23 February 2007.

<http://www.britishecologicalsociety.org/articles/-meetings/current/2007annual> symposium/

Roger Butlin Professor of Evolutionary Biology

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

r.k.butlin@sheffield.ac.uk

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

UWageningen ConservationGenetics Nov21

The Animal Sciences Group of Wageningen UR organises a one day seminar on

CONSERVATION GENETICS OF ANIMAL POPULATIONS

Date: 21 November 2006, 9.30 - 17.00 hrs
Place "De Nieuwe Wereld" Marijkeweg 5, Wageningen, the Netherlands Admission: free Registration: Jack.Windig@wur.nl

Programme: Kuke Bijlsma (RUG, Groningen): Genetic erosion and the persistency of biodiversity René Smulders (PRI - WUR, Wageningen): Conservation of genetic diversity in natural populations and ecosystems Jack Windig (ASG & CGN, WUR, Lelystad): Genetic management of small populations Hendrik Jan Megens (ASG-WUR, Wageningen) Chicken genomics, or why biodiversity matters Hans Peter Koelewijn (Alterra-WUR, Wageningen) Genetic monitoring of the Dutch otter reintroduction project Hilde van Pelt (ASG-WUR, Wageningen) Genetic conservation aspects of fish barcoding Henri Woelders (CGN & ASG-WUR,

Lelystad) Gene-banking of Dutch rare poultry breeds: cryobiology and genetics Sebastian Mucha (CGN & ASG-WUR, Lelystad) Genetic management of the Dutch Landrace Goat Maurice La Haye (Alterra-WUR, Wageningen & Animal Ecology RUN, Nijmegen) Genetic aspects of the breeding program for the threatened Hamster in the Netherlands Solomon Gebremichael (ASG-WUR, Wageningen & ILRI Ethiopia) Conservation priorities for Ethiopian sheep breeds Herwin Eding (Institut für Tierzucht, Neustadt Germany) International perspectives on conservation of national genetic resources Piter Bijma (ASG-WUR, Wageningen) Some examples of research on conservation genetics of zoo populations Hans Lenstra (UU, Utrecht) Geographic patterns of cattle, sheep and goat diversity: clines, clusters, introgression and a dilemma for conservation

More information and registration: Jack J. Windig Tel. +31-320238068 e-mail: jack.windig@wur.nl Animal Sciences Group - Wageningen UR Department Animal Genetics and Biodiversity P.O. Box 65 8200 AB Lelystad The Netherlands

"Windig, Jack" <Jack.Windig@wur.nl>

YorkU EGLME 2007 May5

Eastern Great Lakes Molecular Evolution XI

INITIAL ANNOUNCEMENT AND CALL FOR ABSTRACTS

Saturday, May 5, 2007 York University, Toronto, Ontario

The 2007 Eastern Great Lakes Molecular Evolution Meeting will be held on Saturday, May 5, 2007, at York University in Toronto. Registration, coffee, and poster setup will begin at 8:30 A.M. and the talks will end around 5 PM. Posters will be displayed all day, with a mid-day poster session set aside. The following is a tentative list of invited speakers:

Chip Aquadro (Cornell) Patricia Wittkopp (Michigan) Asher Cutter (Toronto) Ben Evans (McMaster)

Further information will be available at <http://www.barnard.edu/biology/eglme.html> as of Dec. 1 2006. Online registration will be available at that time; those wishing to register now should follow the directions below.

In addition to the invited speakers, there will be shorter contributed talks that will be selected from submit-

ted abstracts, and will be of 12 - 15 minutes duration. Selections will be made by the organizing committee based on the submitted abstract, with an effort to have as many labs represented as possible. Abstracts must be submitted by March 9, 2007. Individuals submitting abstracts will be informed by March 30, 2007 as to whether they have been selected to give a talk. Those not chosen for talks will be strongly encouraged to present a poster on their work.

Please feel free to duplicate and distribute copies of this notice to anyone interested in attending the meeting, particularly students and faculty who are new to these meetings or to the field of molecular evolution. A schedule and additional details on the meeting, including information about traveling to Toronto and maps of the York campus, will be posted at <http://www.barnard.edu/biology/eglme.html> as of Dec. 1, 2006 and will be distributed by email no later than April 6, 2007 to all those who register.

To register, submit an abstract, or if you have any ques-

tions, please contact:

Stephen Wright Department of Biology York University e-mail: [stephenw \(at\) yorku.ca](mailto:stephenw@yorku.ca) phone: 416- 736-2100 ext 20213

or

Brian Morton Department of Biological Sciences Barnard College, Columbia University e-mail: [bmorton \(at\) barnard.edu](mailto:bmorton@barnard.edu) phone: 212-854-5454

Format:

Registration: Please provide your name, institution, mailing address, email address and telephone number (please remember that this information will be made available to other registrants).

Abstract: Along with the information requested of registrants, please submit a Title and an Abstract of 250 words or less, along with the name of the lab PI to help us maintain an equitable distribution amongst labs.

Organizing Committee: Stephen Wright, Brian Morton bmorton@barnard.edu

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CarletonU BehaviouralEvolution

Graduate assistantships are available in behavioural evolution in the laboratory of Dr. Sue Bertram at Carleton University in Ottawa, Ontario, CANADA. These positions will begin September, 2007 (possibly December 2008).

I am looking for exceptional graduate students who are broadly interested in studying insect mating behaviour and evolution. The positions will be part of a project aimed at understanding how variation is maintained in traits that confer fitness. Specifically, I am interested in students who would like to pursue a research project in one of the following three areas:

1. Social interactions influencing condition, life-history, and sexually selected traits
2. Dietary influences on condition, life-history, and sexually selected traits
3. Quantitative genetics of condition, life-history, and sexually selected traits

It is essential that students have high enough grades to obtain a teaching assistantship through Carleton University. Students who come with their own funding are certainly most welcome - but this is not mandatory. Summer salary is provided. The positions may require travel into the United States for field-work. Assistantships can be at the Masters or the PhD level, depending on the interests, abilities, and experience of the applicants. It may also be possible to transfer from the Masters program into the PhD program at a later date.

Interested persons should examine my web site at: (<http://http-server.carleton.ca/~sbertram/>). They should then contact me via email at Susan.Bertram@carleton.ca to discuss their interests further. I would like to see a statement of interest, a curriculum vitae, transcripts, and contact information for faculty willing to write letters of reference. For acceptance into the Masters or PhD program for September 2007, students should apply to the graduate program soon, and certainly by January 2007. Please don't apply to the graduate program without first contacting me!

Sincerely,

Sue Bertram Assistant Professor Department of Biology Carleton University 1125 Colonel By Drive Ottawa Ontario Canada (613) 520-2600 x1585 Susan.Bertram@carleton.ca

Susan_Bertram@carleton.ca

CarletonU EvolTheory SexEvol

Evolutionary Theory – Evolution of Sex (Carleton University)

I am seeking new graduate students (PhD and MSc) to develop evolutionary theory. My primary focus is on the evolutionary origin and maintenance of eukaryotic sex. I also work on other areas of evolutionary theory, such as quantifying and explaining patterns of biodiversity. For details, please see my website (www.carleton.ca/~rgorelic). It would be desirable for prospective graduate students to have some knowledge of population genetics, epigenetics, mathematics, computer algorithm development, phylogenetic comparative methods, or a wide variety of organisms. Interested students should electronically send a cv, summary of research experience and interests, unofficial transcripts, and contact details of at least two referees to Root_Gorelick@carleton.ca

Root Gorelick, Ph.D. Assistant Professor Department of Biology Carleton University 1125 Colonel By Drive Ottawa, Ontario K1S 5B6 Canada

Voice 613-520-2600 ext. 1586 URL www.carleton.ca/~rgorelic [under construction]
E-mail Root_Gorelick@carleton.ca

Root_Gorelick@carleton.ca

EmoryU PopBiol

Graduate Student Positions Available in the Program in Population Biology, Ecology and Evolution (PBEE) at Emory University

http://www.biomed.emory.edu/PROGRAM_SITES/-PBEE/ We would like to announce the available of pre-doctoral training fellowships at Emory University in the graduate program in Population Biology, Ecology, and Evolution (PBEE). The PBEE graduate program provides the multidisciplinary training required for a successful research and teaching career. The program allows the student to learn currently accepted scientific facts and theories; learn to plan, conduct and critically evaluate experiments; make an

original contribution to scientific knowledge; become skilled in oral and written communication; and become self-sufficient in continuing education beyond graduate school. The program also prepares the student to teach Population Biology, Ecology, and Evolution and related disciplines in professional and graduate school.

The Emory University graduate program in Population Biology, Ecology, and Evolution (PBEE) is part of the Graduate Division of Biological and Biomedical Sciences. Faculty include members of the departments of Biology, Human Genetics, Anthropology, Environmental Studies and Psychology, as well as faculty in the Rollins School of Public Health and Medical School. The graduate faculty also includes investigators at the US Centers for Disease Control and Prevention, and the Yerkes Primate Center. Founded in 1994, the PBEE program now includes 27 faculty and 21 graduate students. Areas of emphasis and expertise include: The ecology and evolution of infectious diseases and molecular evolution and functional genomics. Our students receive a support package that includes a tuition scholarship, health insurance, and stipend (\$23,500 for 2006-2007)

The application deadline is January 3. For more information and application materials contact the Graduate Division of Biological and Biomedical Sciences and Emory University (800.727.6028, 404.727.2545 or gdbbs@emory.edu, www.biomed.emory.edu)

For more information or to answer questions about the PBEE program, please see the following website: [http:// www.biomed.emory.edu/PROGRAM_SITES/-PBEE/](http://www.biomed.emory.edu/PROGRAM_SITES/-PBEE/) Or directly contact:

Dr. Michael E. Zwick Assistant Professor Department of Human Genetics Emory University School of Medicine Email: mzwick@emory.edu Phone: 404-727-9924 WWW: www.genetics.emory.edu Graduate Studies at Emory: The Graduate Division of Biological and Biomedical Sciences (GDBBS) is composed of eight interdisciplinary programs leading to a PhD degree. Students in our programs have the opportunity to work with world-renowned researchers who are either located on, or adjacent to, the Emory campus. Students can choose to work with faculty members who may be affiliated with the American Cancer Society, Centers for Disease Control and Prevention, Emory College, Rollins School of Public Health, Winship Cancer Institute, Woodruff Health Sciences Center, or Yerkes National Primate Research Center. The GDBBS includes more than three hundred faculty members and nearly four hundred graduate students. Emory University does not discriminate in admissions, educational programs, or employment on the basis of race, color,

religion, sex, sexual orientation, national origin, age, disability, or veteran/Reserve/National Guard status and prohibits such discrimination by its students, faculty, and staff. Students, faculty, and staff are assured of participation in University programs and in use of facilities without such discrimination. The University also complies with all applicable federal and Georgia statutes and regulations prohibiting unlawful discrimination. All members of the student body, faculty, and staff are expected to assist in making this policy valid in fact. Inquiries and complaints should be directed to the Equal Opportunity Programs Office, Emory University, Administration Building, Atlanta, Georgia 30322-0520. Telephone: 404.727.6016 (V/TTY).

Emory University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone: 404.679.4501) to award degrees at the associate, bachelor's, master's, and doctoral levels.

mzwick@mac.com

Gatersleben Germany Apomictic Transcriptome

PhD position - Transcriptome analysis of apomictic *Hypericum perforatum*

Position begins 1st January, 2007

Location: Apomixis research group, Dept. of Cytogenetics and Genome Analysis, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), D-06466 Gatersleben, Germany

<http://www.ipk-gatersleben.de/en/02/04/01/05/>

Contact: Dr. Tim Sharbel sharbel@ipk-gatersleben.de

Project: I would like to announce a 3 year PhD position based in my research group, but funded through the IMPRS (see link below). We are studying reproduction in St. John's wort (*H. perforatum*), a species which can reproduce either through sex or apomixis (asexual reproduction through seed). One of the major goals of my group is to decipher the underlying changes in gene regulation which cause the switch from sexual to apomictic seed production. The project will thus involve a number of major steps, including (1) the identification of highly-expressive accessions using flow cytometric analyses of seeds; (2) the isolation of single egg cells or ovules from both sexual and apomictic accessions; and (3) a comparative transcriptome analysis of

both reproductive forms using SAGE (serial analysis of gene expression) technology.

The position is funded through the International Max Planck Research Schools (<http://www.mpg.de/english/institutesProjectsFacilities/schoolChoice/ecologicalInteractions/index.html>).

My research group is part of the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), a very high-tech institute located near the Harz Mountains, about 2 hours south west of Berlin. Please don't hesitate to contact me if you require any further information.

Best wishes, Tim

Dr. Tim Sharbel Apomixis Research Group Dept. of Cytogenetics and Genome Analysis Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Corrensstraße 3, D-06466 Gatersleben Germany

Apomixis Group Webpage <http://www.ipk-gatersleben.de/en/02/04/01/05/> IPKWebpage www.ipk-gatersleben.de tel: +049 (0)39482 5608 fax: +049 (0)39482 5137

sharbel@ipk-gatersleben.de sharbel@ipk-gatersleben.de

North Carolina State University Genetics

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:

- * NIH-level 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: Evolutionary genomics.

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: Evolutionary quantitative genomics.

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*.

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

Jeffrey Thorne: Statistical methods for analysis of se-

quence data.

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 <julie_pederson@ncsu.edu>

complete a free on-line pre-application form available at <http://biology.syr.edu/graduatestudies/graduatepreapp.html>. For Fall 2007 admittance, formal graduate applications should be received in early January 2007.

Kari A. Segraves Assistant Professor Department of Biology Syracuse University 130 College Place Syracuse, NY 13244 315.443.4899

<http://web.syr.edu/~ksegrave> ksegrave@syr.edu ksegrave@syr.edu

SyracuseU PlantInsectInteractions

Ph.D. opportunities in the Evolutionary Ecology of Plant-Insect Interactions Department of Biology at Syracuse University

I am looking for exceptional students who are interested in studying the evolutionary ecology of plant-insect interactions. I currently have up to two Ph.D. positions available for Fall 2007. One position has a one-year guaranteed research assistantship and both positions are guaranteed funding via teaching assistantships. The positions will be part of a project aimed at understanding how coevolution influences speciation. The work will focus on the association between yuccas and yucca moths.

The interaction between yuccas and yucca moths is a textbook example of coevolution and specialization. Yucca moths are the sole pollinators of yuccas and yucca seeds are the exclusive food source for yucca moth larvae. Among the pollinator moths there is a high level of host fidelity. Twelve of seventeen pollinator species use only a single yucca species and of the remaining oligophagous moths, two use two host plant species, two use three, and one uses seven. Clearly, host plant specialization has featured prominently in the evolution of this lineage and provides an opportunity to examine how adaptation to host plants drives speciation in this coevolved lineage. We will be using a common garden experiment to examine whether host plant specialization influences speciation in an oligophagous yucca moth.

Other projects in the lab center on molecular systematics, population genetics, and community ecology. For more information about these projects, visit my website at <http://web.syr.edu/~ksegrave>. All prospective students are encouraged to contact Kari Segraves via e-mail (ksegrave@syr.edu) and to

UBerne EvolBehaviour

PhD-POSITION in BEHAVIOURAL ECOLOGY

Dept. Behavioural Ecology, Institute of Zoology, University of Berne, Switzerland.

This project will focus on the mechanisms underlying cooperative behaviour between wild-type Norway rats in a prisoner's dilemma situation. We found that rats cooperate according to direct, indirect and generalized reciprocity. Our study of proximate mechanisms involves the experimental application of candidate hormones; the study of ultimate mechanisms involves experimental variation of costs and pay-offs of donors and receivers of altruistic acts, and appraisal of the influence of state and demand on the propensity to cooperate.

The position is for three years and will start at the earliest possible date, with a salary following the scheme of the national funding organization of Switzerland. Besides research, PhD students in our institute assist in undergraduate teaching and supervision. Eligible candidates will have a master's degree (or Diplom) in Biology and research experience in animal behaviour, a genuine understanding of evolutionary theory and a strong commitment to basic science. Practical skills in handling and experimenting with lab animals, in the application of hormones, behavioural observations and in the measurement of physiological parameters will be very helpful. The study will be supervised by Michael Taborsky.

The successful candidate will join an active research group consisting currently of 5 advanced research staff, 8 PhD-students and a varying number of guest scientists and master's students. Besides the Behavioural Ecology group, the ecology-focused Zoological Institute of the University of Berne consists of re-

search groups on Aquatic Ecology and Macroevolution (Ole Seehausen), Conservation Biology (Raphael Arlettaz), Evolutionary Ecology (Heinz Richner), Population Genetics (Laurent Excoffier) and Community Ecology (Wolfgang Nentwig).

Closing date: Open until filled, but all application materials, including CV, a summary of research experience, copies of any published or in-press papers, and two letters of recommendation should be received by 1 December, 2006 to ensure full consideration. Candidates should indicate in their application letter when they could take up the position. Please send all application material to the secretary's office, c/o Marlis Gerteis, Dept. Behavioural Ecology, University of Bern, Wohlenstrasse 50A, CH-3032 Bern, Switzerland; or as e-mail attachments to marlis.gerteis@esh.unibe.ch. For further information see <http://zoology.unibe.ch/behav/> and for inquiries please contact michael.taborsky@esh.unibe.ch.

Prof. Michael Taborsky University of Bern Dept. Behavioural Ecology, Institute of Zoology, Wohlenstr. 50a, CH-3032 Hinterkappelen/Bern Switzerland

Phone: +41-(0)31 631 9156 Secretary: +41-(0)31 631 9111 Fax: +41-(0)31 631 9141 e-mail: Michael.Taborsky@esh.unibe.ch <http://zoology.unibe.ch/behav/> Michael Taborsky <michael.taborsky@esh.unibe.ch>

UCaliforniaLosAngeles EvolBiol

UCLA Ecol & Evol Biology Graduate Program

The Department of Ecology and Evolutionary Biology at the University of California, Los Angeles invites applications for graduate study. With current faculty expertise in behavioral ecology, conservation biology, ecology, evolutionary biology, marine biology, paleobiology, plant biology, physiological ecology and tropical biology, the department is in the midst of an exciting phase, including ongoing faculty hires over the next several years. PhD students receive a 5- year support package. Qualified doctoral students will be considered for our GAANN Fellows program which provides up to \$30,000/year salary and research support. Full information about our program, along with the on-line application, can be found at www.eeb.ucla.edu. Applications are due 15 December.

Victoria Sork Professor and Chair, Dept of Ecol &

Evol Biology Professor, Institute of the Environment eebchair@eeb.ucla.edu

“Victoria Sork, Chair, Ecol & Evo Biol” <eebchair@eeb.ucla.edu>

UCentralArkansas PlantEvol

Applications are being accepted for a M.S. position (two year) with a stipend in the form of a teaching assistantship. You will be required to have a B.S. in biology and have sat the GRE exam for successful admission to the program. Plant molecular biology experience is a plus. The successful applicant will work in a new faculty member's lab at the University of Central Arkansas that is involved with aspects of plant developmental biology. Projects will involve studies at the genomic, cellular and whole plant levels. The starting date is January, 2006. For further information please send a CV and brief cover letter to Dr. JD Swanson at jswanson@uca.edu, 610-526-5259. UCA is located in Conway AR, at the base of the Ozark Mountains, 30 mins from Little Rock. The Biology department currently has 33 full-time faculty, approximately 550 undergraduate majors and a growing Master's program which currently enrolls 29 graduate students. Please visit www.uca.edu/biology/ for more details regarding the Department, Conway, and the Arkansas area.

JD Swanson, Ph.D. Asst. Professor of Biology University of Central Arkansas 201 Donaghey Ave 180 Lewis Science Center Conway AR 72035-5003

Ph) 501 450-5472 jswanson@uca.edu

UConnecticut PEET MolSyst

Graduate Fellowship: Molecular Systematics & Taxonomy; PhD or Master's Level

Two years of graduate research fellowship with continuation based on achievement (as either a research or teaching assistantship) are available for a PhD or Master's level project on the molecular systematics and taxonomy of cicadas in the laboratory of Dr. Chris Simon. The student will be co-advised by experienced cicada taxonomists, Dr. Allen Sanborn and Dr. Max

Moulds. The fellowship includes funds for supplies and field trips to various parts of the world. We are particularly interested in students who wish to work on Latin American or Australia biota. Unsure of whether systematics is for you? Take the systematics career quiz located at: <http://systbio.org/?q=node/139>

This graduate fellowship is sponsored by a National Science Foundation PEET Award (Partnerships to Enhance Expertise in Taxonomy) co-authored by Jason Cryan, Chris Dietrich, and Chris Simon. The successful applicant will join a large team of researchers working on the taxonomy of Auchenorrhyncha (cicadas, plant hoppers, tree hoppers, spittlebugs and allies) and become a member of the Ecology and Evolutionary Biology (EEB) Department at the University of Connecticut (UCONN) Storrs <http://hydrodictyon.eeb.uconn.edu/department/about.php> and <http://hydrodictyon.eeb.uconn.edu/department/prospectivegrads/gradapply.php> The UCONN EEB department has a strong emphasis on systematics with eight of twenty six faculty members having a primary interest in systematics and seven others using systematics as part of their research program. Systematics expertise includes theory, tree building, molecular methods, character evolution, evolution of development, speciation, biodiversity, and biogeography. A weekly Systematics Discussion Group is held each semester.

The Simon lab is a friendly and active mixture of grad students, postdocs and undergrads working in molecular systematics, taxonomy and evolution. Link to our web pages via www.eeb.uconn.edu/faculty/simon/simon.htm Joint Auchenorrhyncha PEET workshops held at the NY State Museum will focus on automated tools for managing and providing Internet access to taxonomic data, nomenclatural issues, understanding morphological characters, illustration techniques, diversity of Auchenorrhyncha, molecular systematics laboratory methods, and new theoretical and methodological developments in systematics.

UCONN www.uconn.edu is situated in a rural environment with rolling hills, rivers, streams, forests, & farms with several major cities within a 1.5 to 2.5 hour drive. The state of Connecticut provides excellent health benefits for graduate students.

To apply please email: chris.simon@uconn.edu

– Chris Simon Professor, Ecology & Evolutionary Biology 75 North Eagleville Road, University of Connecticut Storrs, CT 06269-3043

chris.simon@uconn.edu (Please note that my old uconnvm address no longer works) Office (860) 486-4640; Lab (860) 486-3947; Fax (860) 486-6364, Biopharm

305D, 323,325

June-August: Victoria University of Wellington, School of Biological Sciences, Wellington, New Zealand Office: Kirk 611; Office phone: +64-4-463-5026; Fax: +64 4 463 5331; email: as above Home phone 64-4-970-0265

Home page: <http://www.eeb.uconn.edu/faculty/simon/simon.htm> Reprints: <http://collections2.eeb.uconn.edu/collections/cicadacentral/resources/reprints.html> chris.simon@uconn.edu

UGeorgia EvolPlantBiol

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

Graduate fellowships, assistantships, research support and travel grants are available for qualified candidates. Application information can be found on the web at:

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

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

–

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

jmburke@uga.edu jmburke@uga.edu

UHawaii UMich PhyloComparativeMethod

GRADUATE assistantships in PHYLOGENETIC COMPARATIVE METHODS

University of Hawaii University of Michigan

We seek graduate students to work on our NSF funded project to develop new tools for comparative analysis, particularly for the purpose of studying adaptive evolution.

Ornstein-Uhlenbeck methods for Comparative Hypotheses (OUCH) is aimed at providing a comprehensive and explicit modeling framework within which biologists can test hypotheses of adaptive evolution for continuous characters. The approach is based upon a model that allows for multiple selective regimes, each parameterized by an optimal trait value, as well as overall strengths of selection and drift. One can arrange selective regimes arbitrarily on a phylogenetic tree. This flexibility allows hypotheses of arbitrary complexity to be translated directly into statistical models and confronted with data. We have applied information-based model-selection techniques to rigorously compare multiple alternative hypotheses. This allows fine discrimination among alternatives – alternatives that may differ only in the regimes specified on a branch of particular interest. Because of these features, the method allows detailed exploration of historical differences, whether such hypotheses depend on a specific ordering of selective regimes, or a particular ecological or biogeographical association.

Project Objectives: 1) Application of OUCH to existing comparative datasets to better illustrate its analytical power and gain new insight into specific questions in evolutionary biology. 2) Development of theory for bivariate, multivariate, and frequency data. 3) Development of strategies for concurrently accounting for uncertainty in the phylogeny. 4) Investigation of statistical properties of the methods. 5) Modules written to port these methods into the Mesquite package. 6) Improvements to our project's web pages. 7) Con-

tinued support and distribution of our existing open-source software (in R) for the methods.

Applications are welcome from individuals with a keen interest in adaptive evolution, good quantitative background, and willingness to learn. A basic understanding of computer programming is a plus.

Project location: University of Hawaii with Marguerite Butler, and/or University of Michigan with Aaron King.

PLEASE NOTE: Graduate applications deadlines are rapidly approaching (Dec. 1 for UM and Dec. 15 for UH. UH requires Biology Subject GRE in addition to the General test.)

Send inquiries to: Marguerite Butler mbutler@hawaii.edu Aaron King kingaa@umich.edu

Project web pages: <http://www2.hawaii.edu/~%7embutler/ButlerLab.data/OUwork.html> <http://tsuga.biology.lsa.umich.edu/ouch/> PI web pages: <http://www2.hawaii.edu/~mbutler> <http://tsuga.biology.lsa.umich.edu/king/> Marguerite A. Butler Department of Zoology University of Hawaii 2538 McCarthy Mall, Edmondson 451 Honolulu, HI 96822

Phone: 808-956-8621 Lab: 808-956-9914 FAX: 808-956-9812 <http://www2.hawaii.edu/~mbutler> <http://www.hawaii.edu/zoology/> mbutler@hawaii.edu mbutler@hawaii.edu

UKansas EvolGenetics

Graduate Student Positions Available in Evolutionary Genetics University of Kansas, Department of Ecology and Evolutionary Biology <http://www.ku.edu/~eeb/>

The Department of Ecology and Evolutionary Biology (EEB) at the University of Kansas is recruiting graduate students interested in evolutionary genetics for Fall 2007. EEB faculty have research interests in the areas of population, quantitative, and ecological genetics, molecular evolution, genomics, and evolutionary developmental biology. Research in these areas has been strengthened by several recent outstanding faculty hires. EEB genetics faculty and students study a range of topical problems in evolutionary genetics, and utilize a variety of approaches from computational and theoretical methods, to experimental work on both model and non-model systems. The following EEB faculty are actively recruiting graduate students:

Jennifer Gleason (jgleason@ku.edu) - Evolutionary behavior genetics
 Lena Hileman (lhileman@ku.edu) - Evolutionary developmental biology
 John Kelly (jkk@ku.edu) - Plant population biology and genetics
 Stuart Macdonald (sjmac@ku.edu) - Genetics of complex traits
 Garrick Skalski (skalski@ku.edu) - Theoretical evolutionary ecology
 Joy Ward (joyward@ku.edu) - Plant physiological ecology and plant genomics

Other members of the Department with research interests in evolutionary genetics include Pauly Cartwright (pcart@ku.edu - evolutionary developmental biology) and Maria Orive (morive@ku.edu - evolutionary theory, population genetics). The diverse academic community in EEB provides the opportunity for extensive collaborative work with ecologists, physiologists, and systematists. The EEB Department also has strong links to the Department of Molecular Biosciences (<http://www.molecularbiosciences.ku.edu/>), and two EEB faculty - Jennifer Gleason and Stuart Macdonald - are affiliated with both Departments. More information about the Department and EEB faculty research is available from the EEB website (<http://www.ku.edu/~eeb/>).

Interested students should contact individual faculty members directly about specific opportunities. Details of the KU EEB graduate program and the formal application procedure are available from the EEB website (<http://www2.ku.edu/~eeb/graduate/index.html>). Questions about the application process can be directed to Jaime Keeler (jrkeeler@ku.edu). We welcome strong applications from any country. EEB guarantees funding for Ph.D students for 5 years, and exceptional US students are eligible to apply for a Self Fellowship (<http://www2.ku.edu/~selfpro/>). The deadline for new applicants is January 10, 2007. KU is an EO/AA institution.

Stuart Macdonald Department of Ecology and Evolutionary Biology Department of Molecular Biosciences sjmac@ku.edu <http://www.people.ku.edu/~sjmac/> sjmac@ku.edu sjmac@ku.edu

laboration with Drs. Allison Snow and Kristin Mercer at Ohio State University for a project on the effect of early life history stages (seed dormancy, seed germination, seedling competition) on the persistence of crop alleles in populations of wild sunflowers (*Helianthus annuus*). Our research is part of our broader interest in risk assessment of transgenic crops. Further, we have interest in the population ecology of wild sunflowers given that it is one of the relatively few native annual plants of the Great Plains. We will establish field experiments in Kansas that evaluate whether low seed dormancy and early germination rates of crop-wild hybrid sunflowers are maladaptive (i.e. reduce spread and persistence of crop alleles in wild populations) or whether these same traits could increase introgression if larger hybrid seedlings are more competitive than wild sunflower genotypes.

I am looking for a graduate student who has interest in this project, as well as developing independent research in plant population biology. There are a variety of dissertation projects that could be developed in the context of this project; my laboratory also has research strengths in plant-pathogen interactions and conservation biology of plants. Please contact me if interested (<mailto:halexander@ku.edu>; <http://www2.ku.edu/~eeb/faculty/alexanderh.html>).

University of Kansas is located in Lawrence, KS, a college town in eastern KS, about 50 minutes from Kansas City and in close proximity to natural areas (prairies, eastern deciduous forest). Our department has excellent breadth and depth across ecology and evolutionary biology disciplines (<http://www2.ku.edu/~eeb/>), and extensive nearby field ecology facilities (<http://www.ksr.ku.edu/>).

Application information can be found at <http://www2.ku.edu/~eeb/graduate/index.html> <http://www2.ku.edu/~eeb/graduate/index.html> halexander@ku.edu

UKansas PlantPopBiol

Interested in graduate work in plant population biology?

Contact: Helen Alexander Dept. of Ecology and Evolutionary Biology University of Kansas halexander@ku.edu

Details: I have recently obtained USDA funding in col-

ULeipzig HumanOrigins

We invite applications for the Leipzig School of Human Origins, a joint graduate program of the University of Leipzig (Germany) and the Max Planck Institute for Evolutionary Anthropology.

This program provides interdisciplinary training and research opportunities for university graduates who wish

to work towards a PhD in anthropology, biology, evolutionary genetics, primatology, paleoanthropology and related fields. Each student will apply for - and be accepted to - one of the following disciplines:

- 1) Comparative primatology – focusing on the evolution of social and cultural systems in the great apes, as well as other relevant mammals.
- 2) Evolutionary and Functional Genomics / Ancient DNA / Molecular Anthropology
 - a. Evolutionary genomics / Ancient DNA – focusing on the evolutionary and functional genomics of humans and the great apes, as well as the retrieval of DNA from palaeontological remains.
 - b. Molecular Anthropology - focusing on the origin, relationships, history, and migration patterns of human populations.
- 3) Human Paleontology, Prehistoric Archaeology and Archaeological Science – focusing on the study of hominid fossils and archaeological sites. This includes comparative morphological as well as chemical (isotopic) analyses.

Our PhD program is open for international students and is designed as a 3-year-program starting in fall 2007. The language of the school is English.

Leipzig is a highly livable city in the center of Europe (www.leipzig.de).

For project and application details see <http://www.leipzig-school.eva.mpg.de/> or contact us by e-mail at leipzig-school@eva.mpg.de, phone ++49 341 3550-0 or fax ++49 341 3550-119.

The closing date for applications is January 31, 2007.

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Sandra Jacob Max Planck Institute for Evolutionary Anthropology / The Leipzig School of Human Origins (Ph.D. Programme) Deutscher Platz 6, 04103 Leipzig, GERMANY phone: ++49 (0) 341 3550-122; fax: ++49 (0) 341 3550-119 <http://www.eva.mpg.de/> <http://www.eva.mpg.de/> Sandra Jacob <jacob@eva.mpg.de>

UManchester CrossSpecies MicroarrayHybridisations

University of Manchester, UK. Faculty of Life Sciences, BBSRC Strategic PhD Studentship - Available Now (to

start no later than 28th March 2007)

Project Title : Simulation and Classification Study of Cross Species Microarray Hybridisations Supervisor : Dr. David Hoyle and Prof. Andy Brass

Description: Microarrays have become a valuable and commonly used assay available to the molecular biologist ? being used to monitor the transcript activity of thousands of genes within an organism, or to quantify genetic similarities between species. A large amount of bioinformatics research has been devoted to statistically correcting many of the inherent systematic errors present in microarray data. However for a number of microarray experiments the actual microarrays used contain probes constructed using genetic material from a different species to that being studied, e.g. using mouse cDNA microarrays to study hamster gene expression, or using microarrays for species comparison. Currently little is known about the limitations and validity of using such cross-species hybridisations, or the appropriateness of the standard statistical methods used to handle microarray data.

This bioinformatics project will focus on investigating the accuracy and limitations of cross species microarray hybridisations, both for gene expression and species comparison. The student will use a combination of real and computer simulated cross-species hybridisation data. This will cover a number of areas in mainstream microarray bioinformatics as well as modelling DNA sequence evolution, using computational methods for phylogeny reconstruction, and accessing bioinformatics resources for the retrieval of additional sequence, functional and annotation data.

Further information: This studentship is open to UK/EU applicants who have, or expect to obtain a 2:1 or first class honours degree in a relevant subject. Further information can be obtained by contacting Dr David Hoyle, tel. +44 (0)161 275 1133, e-mail: david.hoyle@manchester.ac.uk.

Application Details: Application forms can be obtained from <http://www.ls.manchester.ac.uk/postgraduate/howtoapply/> or by contacting the Faculty of Life Sciences, Graduate Office (e-mail: pg.lifesciences@manchester.ac.uk; tel.: +44 (0)161 275 3883)

Applications with two letters of reference should be returned to, The Graduate Office, Faculty of Life Sciences, University of Manchester, Simon Building, Oxford Rd. Manchester, M13 9PL, UK.

<<mailto:david.hoyle@manchester.ac.uk>>

David Hoyle <david.hoyle@manchester.ac.uk>

UMarylandBaltimoreCounty Speciation

A Ph.D. position is available to study the role of behavior and ecology in the speciation of darters. Darters are a spectacular radiation (~200 species) of brightly colored North American fishes, with centers of diversity in Appalachian and Ozark mountain streams. A diversity of nuptial coloration and habitat preferences make them ideal for addressing the relative contributions of sexual and ecological selection to species formation. A variety of projects are available in the laboratory of Dr. Tamra Mendelson, and a research assistantship is guaranteed for one year (teaching assistantship guaranteed by the department for the remaining years). The department of Biological Sciences at the University of Maryland Baltimore County (UMBC) is an energetic and intellectually vibrant community with an extremely active group of graduate students (<http://www.umbc.edu/biosci/Graduate/index.html>) and a strong core of faculty in evolutionary biology (<http://www.umbc.edu/biosci/Faculty>). The Baltimore-Washington area is also an excellent place to live, with the ocean, the Appalachians, and city culture/convenience nearby. Please contact Tamra Mendelson by email (tamram@umbc.edu) if interested. Also see <http://www.umbc.edu/biosci/Faculty/mendelson.html>. Women and minorities especially encouraged to apply.

Tamra Mendelson Assistant Professor Department of Biological Sciences UMBC Baltimore MD 21250 tamram@umbc.edu 410-455-2267

UMichigan PlantSystematics

Ph.D. opportunities in Plant Systematics Department of Ecology and Evolutionary Biology (EEB), University of Michigan, Ann Arbor

We are looking for bright, motivated students who wish to enter the Ph.D. program in Ecology and Evolutionary Biology at the University of Michigan to conduct research on the systematics of the large plant genus *Euphorbia*. The positions will be part of a project entitled

Euphorbia a global inventory of the spurges, funded by the Planetary Biodiversity Inventory program of the U.S. National Science Foundation. The project began in October 2006 and will run for five years, with the participation of an international team of collaborators led by Paul E. Berry (University of Michigan, Ann Arbor) and co-PIs Kenneth J. Wurdack (Smithsonian Institution, Washington, DC), David Baum (University of Wisconsin), and Reed Beaman and Nico Cellinese (Yale University).

Euphorbia is distributed worldwide and is one of the largest angiosperm genera, with over 2000 species. The genus achieves its greatest diversity in arid areas of Africa and Madagascar, where many species are cactus-like succulents. Many of the species are rare and endangered, and it is the only genus known to contain all three major photosynthetic systems (C3, C4, and CAM). The goals of the project are to provide a comprehensive monograph of the genus in a five-year period through appropriate field exploration, study of museum and living collections, bioinformatic tools, molecular systematics, and floral developmental studies.

We encourage prospective students to contact Paul Berry at peberry@umich.edu or visit his website at <http://www.eeb.lsa.umich.edu/eeb/people/peberry/index.html> and to apply to the Ecology and Evolutionary Biology Graduate Program at the University of Michigan Ann Arbor. For information on candidate requirements and application deadline see: <http://www.eeb.lsa.umich.edu/eeb/graduates/prospective.html>. Note that the recommended deadline for applying to enter in the fall of 2007 is December 1 of this year.

riina@umich.edu riina@umich.edu

UMontana PlantEvolGenet

Ph.D. opportunities in Plant Evolutionary Genetics Graduate Program in Organismal Biology and Ecology (OBE) Division of Biological Sciences, University of Montana

I am seeking exceptional students interested in studying plant evolutionary genetics as Ph.D. candidates in the OBE program of the University of Montana. The graduate position(s) is funded by an NSF-FIBR grant focusing on the genetics of speciation in the diverse wildflower genus *Mimulus* (<http://www.biology.duke.edu/mimulus/index.html>). The shared genetic resources de-

veloped through the FIBR project (as well as whole genome sequence now being generated for *Mimulus guttatus*) provide an exciting opportunity to bridge the fields of ecology, evolution and genomics in an emerging model system. Active areas of research in the Fishman lab include floral and mating system evolution, the genetic mechanisms of hybrid incompatibility, and the evolution of selfish genetic elements (cytoplasmic male sterility and meiotic drive). Students may participate in ongoing research projects, but will also be encouraged to initiate and develop independent research. Funding is currently available for up to three years of RA stipend support (with the balance met with TAships), as well as research and travel expenses.

The OBE program at the University of Montana is a vibrant group of students, postdocs and faculty with particular research strengths in evolutionary biology/conservation genetics (F. Allendorf, K. Dial, D. Emlen, L. Fishman, G. Luikart, S. Mills) and plant population ecology (R. Callaway, E. Crone, J. Maron, A. Sala). We currently share an NSF-IGERT training grant in the Ecology of Infectious Diseases with the Math, Microbiology, and Wildlife Biology programs on campus. Students in the OBE program are an interactive group with enthusiasm for both science and (this is Montana, after all!) enjoying the great outdoors. The University of Montana is located in the student-friendly town of Missoula, which is nestled in a mountain valley about half way between Yellowstone and Glacier National Parks.

Please contact me directly (lila.fishman@mso.umt.edu) if you are interested in graduate work in my lab or have questions about the OBE program at the University of Montana. General application information can be found at http://dbs.umt.edu/students/-graduate_studies.htm. The deadline for graduate applications is January 10, 2007.

Lila Fishman Assistant Professor Division of Biological Sciences 104 Health Sciences Bldg. University of Montana Missoula, MT 59812

lila.fishman@mso.umt.edu (406) 243-5166

UNewOrleans ConservationBiol

DOCTORAL FELLOWSHIPS IN CONSERVATION BIOLOGY

UNIVERSITY OF NEW ORLEANS

The Department of Biological Sciences at the University of New Orleans announces two Doctoral Fellowships in Conservation Biology beginning Fall 2007. The fellowships provide support for four years at an annual stipend of \$23,000, and include a full tuition waiver and an allowance for research supplies and travel. The Department of Biological Sciences offers opportunities for graduate student research in ecology, evolution, systematics, genetics, reproductive biology, physiology, and biochemistry. For more information on the Department, faculty research interests, and other resources, please see the website: <http://biology.uno.edu/>. <<http://biology.uno.edu/>>

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

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

Applicants must also file a graduate application with UNO admissions (see <http://admissions.uno.edu/app.cfm>). Applicants must be U.S. citizens or permanent residents. Applications from minority groups under-represented in the sciences are especially encouraged. Review of applications will begin on January 8, 2007 and continue until both positions are filled. UNO AA/EEO.

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

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

nanthony@uno.edu

USherbrooke BrookCharrEvol

A PhD position is available to work on quantifying the influence of environmental variability on the ecological and genetical impacts of stocking brook charr (*Salvelinus fontinalis*) in the wild. Specifically, the project will aim to link the level of genetic contamination (introgression) and phenotypic changes with the intensity of stocking practices and environmental heterogeneity in several lakes in Quebec. The project will be conducted in collaboration with Louis Bernatchez's labo-

ratory at Laval University. The project would ideally begin as soon as January 2007, is funded by NSERC and comes with a scholarship of \$16,000 / year for 3 years. To apply, send a letter of interest and a detailed CV, including contact information for two references to: Dany.Garant@USherbrooke.ca

Dany Garant Assistant Professor Department of Biology University of Sherbrooke Sherbrooke QC J1K 2W5 Canada Phone: (819) 821-8000 ext.63198 Fax: (819) 821-8049 e-mail: Dany.Garant@USherbrooke.ca

UWashington RockfishEvol

GRADUATE STUDENTSHIP Marine Molecular Biology Laboratory, School of Aquatic and Fisheries Sciences, University of Washington, Seattle, WA, USA

A multidisciplinary approach to estimating larval dispersal rates and Distances in brown rockfish (*Sebastes auriculatus*).

The Project The extent of dispersal in marine species has attracted great interest, not only because of its importance for the distribution and evolution of marine species, but also because it underpins many strategies in fish stock assessment and conservation. With the emphasis on marine protected areas (MPAs) as a tool for marine conservation, the question of realized dispersal has found renewed significance, as the efficacy of MPAs depends critically on the demographic exchange with surrounding areas. Here, we combine genetic parental identification, artificial marking of larval otoliths and oceanographic experiments and modeling to quantify self recruitment and dispersal distances in brown rockfish (*Sebastes auriculatus*) in Puget Sound. The project is funded by Washington Sea Grant.

Job Description The student would join a multidisciplinary team consisting of field ecologists (Washington Department of Fish and Wildlife), oceanographers (School of Oceanography), molecular geneticists (School of Aquatic and Fishery Sciences) and biochemists (Oregon State University). There would be opportunity for the student to become involved in all aspects, but primary responsibilities would include field work (sampling, drifter deployment and recovery) and molecular genetics. The successful applicant will show initiative, responsibility and maturity, be able to work well as part of an interdisciplinary and inter-institutional team, and be enthusiastic about both field and laboratory work. SCUBA diving is a large part of

the project, and candidates are expected to have or to obtain a certificate. Experience with molecular methods is beneficial.

The Group Dr Hauser's laboratory is an active group shared with Dr Kerry Naish (Marine Molecular Biology Laboratory, <http://depts.washington.edu/mmb/>), consisting of nine graduate students, one postdoc and two technicians. Members of the laboratory work on a wide variety of projects, including population structure in sockeye salmon, Pacific herring and Pacific cod, reproductive success in wild and hatchery bred steelhead, hybridization in Puget Sound rockfishes, so providing a large and dynamic group supporting new students. (For more information on research projects in Dr Hauser's group see <http://fish.washington.edu/people/hauser/>). The facilities have recently been completely refurbished, providing each faculty with about 900 ft² core lab space, plus common areas for central facilities. The group is well equipped with a high-throughput MegaBace 1000 automated sequencer, a Hydra pipetting robot, several PCR machines and other molecular genetic laboratory equipment.

Applications and Further Details For further information, please contact Dr Lorenz Hauser, School of Aquatic and Fishery Sciences, University of Washington, e-mail: lhauser@u.washington.edu, Tel: (206) 685 3270. Applications should be submitted to the Graduate Program of the School of Aquatic and Fishery Sciences (<http://www.fish.washington.edu/graduates/-admissions.html>). Deadline for applications is December 15, 2006 for US candidates. International candidates, please contact Lorenz Hauser.

lhauser@u.washington.edu

UWindsor FishSensoryEvol

Graduate assistantships available in fish sensory ecology/evolution ? Two graduate assistant positions are available in the laboratory of Dr. Dennis Higgs (<http://www.uwindsor.ca/HiggsLab.htm>) at the University of Windsor beginning September, 2007. Eligible students may also be considered for placement in a prospective graduate program in Behaviour, Cognition, and Neuroscience. One of the two assistantships will be in collaboration with Dr. Daniel Heath (<http://uwindsor.ca/-heathresearchgroup>) on the evolution of hearing, using advanced techniques in electrophysiology and DNA sequencing. This position will require travel for on-

site electrophysiology. The second assistantship is in the area of auditory behaviour and ecology. Assistantships will be at the Master's or Ph.D. level, dependent upon interests and abilities of applicants. Some knowledge and appreciation of sensory ecology and evolution is required but training in electrophysiology, sequencing, and/or behavioural analysis will be provided. Interested parties should contact Dr. Higgs at dhiggs@uwindsor.ca with a statement of interest, stating which position you are applying for and why, and a curriculum vitae.

Dennis M. Higgs, Ph.D. Department of Biology University of Windsor Windsor, Ontario N9B 3P4 Canada phone: 519-253-3000 ext 4771 e-mail: dhiggs@uwindsor.ca www.uwindsor.ca/higgslab
Daniel Heath Great Lakes Institute for Environmental Research University of Windsor 401 Sunset Ave Windsor, Ont, Canada N9B 3P4

E-mail: dheath@uwindsor.ca Phone: (519) 253-3000, Ext 3762 Fax: 971-3616

dheath@uwindsor.ca

UppsalaU Hybridization

Uppsala University offers two PhD positions in Animal Ecology at the Department of Ecology and Evolution

Two four-year graduate student positions are available within two different projects:

Project 1: "Replacement of species: interaction between hybridization and interference competition" The main aim of this project is to investigate the relative role of introgressive hybridization (i.e. hybridization leading to gene exchange between species) and interspecific competition in determining population dynamics and local distributions of two closely related species of flycatchers. Breeding data and blood samples have already been collected for many years and can be combined with data on climate and habitat structure. This project is suitable for a person who finds the combination of conservation biology and evolutionary processes attractive. The student will be responsible for further data collection and planning relevant experiments.

Impact: As a result of direct human impact, species that have been separated for millions of years are now being brought together at an increasing speed. Still, the relative role of hybridization in driving patterns of local extinction remains largely unknown. This is probably

because patterns of hybridization, and especially patterns of backcrossing are difficult to detect and evaluate in natural populations. This project has the potential to increase our general knowledge regarding the consequences of hybridization.

Projects 2: "Speciation and evolution in hybrid zones" The main aim of this project is to solve central questions regarding speciation: Is species recognition a by-product of evolution of mate choice among conspecifics? Are genetically determined traits (e.g. plumage) or partly learned traits (e.g. song) used to signal species identity? How many genetic substitutions are involved in the evolution of genetic incompatibility? In what genomic regions do these mutations occur? These type of questions will be approached experimentally. This project is suitable for a person who is interested in animal behaviour and molecular genetics.

Impact: Speciation lies at the heart of evolutionary biology and is the driving force behind biodiversity. Nevertheless, many central questions regarding speciation remain unresolved. Recent development of novel molecular and statistic tools has only now made it possible to answer many of these questions. This project has the potential to yield novel insights into the process of speciation.

Both projects include fieldwork that is carried out on the Swedish island of Öland in the Baltic during May and June. The rest of the training program, including data analysis and lab work is carried out at the department in Uppsala. The close links between departments within the Evolutionary Biology Centre offers excellent possibilities for interdisciplinary research in evolutionary biology.

A M. Sc. Degree in biology is required and the salary will follow the guidelines from Uppsala University (rising from approx. 15 000 to 22 000 SEK/month in 4 years). Send the application, including a CV and a letter of motivation and arrange to have a letter of reference sent to me at the address below no later than 30 November 2006. Shortlisted candidates can expect to be called for an interview.

Direct any questions about the position to:

Anna Qvarnström Animal Ecology/Dept. of Ecology and Evolution Norbyvägen 18 D, Evolutionary Biology Centre, Uppsala University, Norbyvägen 18D, SE-752 36 Uppsala, Sweden Phone + 46 18 471 6406, E-mail: Anna.Qvarnstrom@ebc.uu.se, <http://www.ebc.uu.se/-zoekol/> anna.qvarnstrom@ebc.uu.se

Wageningen MallardPopGenet

Host-parasite interaction in the mallard (*Anas platyrhynchos*) with respect to influenza dispersal and host migration, assessed by population genetic means.

Job description: The aim of this project is to find out how avian influenza and its host, the mallard, influence each other with respect to dispersal and what the role herein is of individual genetic quality. The mallard is considered the primary natural reservoir of avian influenza due to its wide range and large population sizes. Avian influenza can be a threat not only to the mallard but also to poultry farming and even human health.

Various breeding, sedentary and wintering populations throughout Europe and Asia will be sampled. The population genetic structure of the mallard will be analysed with a set of 80 microsatellites and MHC class I sequences. The population genetic structure of avian influenza will be analyzed with RNA sequences. For associations with individual fitness parasite load will be estimated and various morphometric measurements will be performed, such as body weight, quality of feathers and amount of body fat.

Requirements:

You have a university Master's degree with specialization in animal ecology, genetics or population genetics.

Conditions of employment:

It concerns a vacancy for four years; appointment will initially take place for a period of one year to evaluate suitability; if suitability is determined to be adequate, the employment contract will be extended for the remaining duration of the PhD programme.

You can send a cover letter and CV by e-mail to:

Dr. Pim van Hooft Lecturer Wageningen University and Research Centre Resource Ecology Group Bornsesteeg 69 6708 PD Wageningen The Netherlands E-mail: pim.vanhooft@wur.nl

Pim.vanHooft@wur.nl Pim.vanHooft@wur.nl

Wageningen WildBoarPopGenet

Parasite transmission in the European wild boar (*Sus scrofa*): associations with population structure and immunogenetic diversity

Job description: The aim of this project is to analyze the effects of the population structure of the European Wild Boar on the prevalence and transmission of parasites, as well as the selective effects on immune related genes. The Wild Boar is increasing its range, reaching levels previously unrecorded. This has already contributed to spread of many contagious diseases. This can negatively affect the fitness and trophy quality of game species, public health, livestock health, and the conservation of endangered species.

Wild Boar populations throughout Europe will be sampled that differ with respect to population size and density, connectivity and migration with other populations, and parasite prevalence. One will try to relate various classes of immune related genes to individual fitness, estimated by morphometric and reproductive characteristics and the presence of parasites. Parasite exposure will be estimated amongst others by antibody prevalence. Additionally, comparisons will be made with neutral genetic markers.

Requirements:

You have a university Master's degree with specialization in animal ecology, genetics or population genetics.

Conditions of employment:

It concerns a vacancy for four years; appointment will initially take place for a period of one year to evaluate suitability; if suitability is determined to be adequate, the employment contract will be extended for the remaining duration of the PhD programme.

You can send a cover letter and CV by e-mail to:

Dr. Pim van Hooft Lecturer Wageningen University and Research Centre Resource Ecology Group Bornsesteeg 69 6708 PD Wageningen The Netherlands E-mail: pim.vanhooft@wur.nl Tel: +31-317-484320 Fax: +31-317-484845

Pim.vanHooft@wur.nl Pim.vanHooft@wur.nl

Washington evolutionary modeling in humans

Ph.D. Training Bridging Anthropology and Biology IPEM: IGERT Program in Evolutionary Modeling Model-Based Approaches to Biological and Cultural

Evolution How does culture change? How and why did culture first appear? How are behaviors developed and maintained in non-human animals? How can we use the answers to these questions address real-world challenges? IPEM aims to produce professionals versed in evolutionary approaches integrating the study of biology and culture, familiar with the most important perspectives and quantitative techniques for studying culture change and the evolution of social behavior in both humans and non-humans. IPEM's interdisciplinary graduate student training in model-based approaches to biological and cultural evolution is funded by a 5-year multimillion-dollar grant from the National Science Foundation's Integrative Graduate Education and Research Traineeship (IGERT) Program. IPEM Fellows draw on the resources of both Washington State University, Pullman (WSU) and the University of Washington, Seattle (UW) and spend time taking courses and doing research on both campuses. Fellows can come into the program through the Department of Anthropology at either UW or WSU or through the School of Biological Sciences at WSU. At WSU, Fellows entering through Anthropology may be in either the evolutionary or the archaeology program; at UW, Fellows may be in either the biocultural or the archaeology program. In addition to disciplinary requirements, IPEM Fellows take a series of classes that feature discussions of evolutionary issues in contemporary society, the comparative biology of social traditions across species, the evolution of human social behavior, model use in anthropology, phylogenetics in biology and anthropology, and ethics. World leaders in application of evolutionary theory to biological and cultural systems visit our campuses to present seminars, discuss Fellow research, and interact socially with IPEM Fellows and faculty. Seminars are shared across campuses via a two-way video link. See Seminar Series at <http://depts.washington.edu/ipem/index.shtml>. Students with either a BA/BS or an MA/MS may apply to the program. We particularly encourage applications from students who will have completed their Master's degrees in anthropology or biology when they begin our program. IPEM Fellows receive two years of fellowship support at \$30,000/year and are eligible to apply, competitively, for a third year of support. Their tuition is also waived while they hold the fellowship, and they are eligible for funds of up to \$8,000/year to support research and conference attendance. Applicants to IPEM need to apply to one of the following: * The School of Biological Sciences, WSU (<http://www.sci.wsu.edu/sbs/>) * The archaeology or biocultural program in the Department of Anthropology, UW (<http://depts.washington.edu/anthweb/>) * The evolutionary or archaeology program in the Department of

Anthropology, WSU (<http://libarts.wsu.edu/anthro/>) In addition to the materials required for admission into each regular graduate program, IPEM consideration requires a 3-page statement describing Fellows' reasons for applying to the IPEM program, their relevant background, and the ways in which their areas of research interest are congruent with IPEM goals. Please see <http://depts.washington.edu/ipem/application/index.shtml>. "Larrabee, Linda Ann" <Larrabee@wsu.edu>

Zurich EvolBioinformatics

PhD studentships in molecular evolution/evolutionary bioinformatics or mathematical biology

The Wagner lab at the University of Zurich has openings for several PhD student-ships in the area of molecular evolution. The lab studies biological evolution on all levels of organization, from genes, genomes, and genetic networks to whole organ-isms. A sample of our research can be found at <http://www.bioc.unizh.ch/~wagner/>. Lab members are a group with very diverse backgrounds and research projects, unified by their interests in evolution and /or the fundamental organizational prin-ciples of life. Current openings are available for projects in human genome evolu-tion and the evolution of selfish mobile DNA.

For best consideration, a strong background in biology is desirable. Fluency in a major scripting language such as perl is a must, as is experience with the analysis of genome-scale biological data. Depending on the project, skills in applied mathematics (differential equations) may be necessary. We are looking for an individual with a Masters Degree or equivalent, who is highly self-motivated and independent, and has demonstrated interests in problems of molecular evolution. The working language in the labo-ratory is English. German skills are not essential.

Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file containing a CV including pub-lication list (if available), a scanned academic transcript (list of grades in university courses), a statement of research interests not exceeding two pages, and three refer-ences to jobs_aw@bioc.unizh.ch. Review of applications will continue until the positions have been filled.

– Prof. Dr. Andreas Wagner University of Zurich Dept.
of Biochemistry, Bldg. Y27 Winterthurerstrasse 190
CH-8057 Zurich Switzerland

Secr. (Christiane Gujan): +41-44-635-6142

Office: +41-44-635-6141 FAX: +41-44-635-
6144 Email: aw@bioc.unizh.ch Web: [http://-
www.biochem.unizh.ch/wagner/](http://www.biochem.unizh.ch/wagner/) aw@bioc.unizh.ch
aw@bioc.unizh.ch

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African field station manager

Succulent Karoo Research Station in South Africa:

Research Station Manager required

Requirements: A zoology or biology student with a masters degree who would like to gain experience in field work and management. Applicants must be willing to work hard under all weather conditions, be able to cope with the very basic conditions at the research

station, the loneliness of the field but also be an active member of a small social group. Applicants must not fear snakes and must be able to handle very cold and very hot weather. An interest in nature and insight into science are a must. Experience in handling small mammals and craft skills is an advantage. The position offers the opportunity to spend an unforgettable year in the field in Africa.

Period: For twelve months, to commence in April or 1st of May 2007.

Costs and compensation: Accommodation and a weekly trip to town for shopping are provided free of charge. Additionally, a monthly compensation of R

2000 will be paid which will cover the basic cost of living (ca. R 1300/month) and for some pocket money. Applicants will be responsible for their personal medical insurance, visa fees etc. For transport costs to and from the research station a compensation of R 6000 (approx. 650 Euro) will be refunded at the end of the period.

Job description: 1. Management of research station (maintenance, refilling water tanks, replacement of empty gas bottles etc.). 2. Trapping, marking, radio-tracking and observation of small mammals. 3. Collection of blood samples from wild living mice. 4. Supervision of field assistants. 5. Management of a captive mouse colony. Five working days a week (Mo, Tue, Thu, Fr, Sat), with Wednesday being used for a shopping trip to town (not counted as working day) and Sundays being free. Included is four weeks of holiday for 12 months, which has to be taken during periods when other students are present at the research station. The trial period is four months.

Place and project: Goegap Nature Reserve near Springbok in the Northern Cape of South Africa. The research projects are on the socio-ecology of small mammals, studying ecological and physiological reasons of social behavior.

How to apply? Please send a CV, a letter of motivation and the names and contact information of at least two scientists available for reference. Application deadline: 15th of December.

Further information under www.strippedmouse.com
Contact: carsten.schradin@zool.unizh.ch

Dr. Carsten Schradin Research Associate, Zoological Institute, Department of Animal Behavior, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland. Tel: +41 - (0)44 635 5486

Honorary Researcher at the School of Animal, Plant and Environmental Sciences, University of the Witwatersrand, South Africa.

Dr. Carsten Schradin Research Associate, Zoological Institute, Department of Animal Behavior, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland. Tel; +41 - (0)44 635 5486 Fax: +41 - (0)44 635 5490

(Tel. secretary: +41 - (0)44 635 5271)

Honorary Researcher at the School of Animal, Plant and Environmental Sciences, University of the Witwatersrand, South Africa.

Succulent Karoo Research Station, Goegap Nature Reserve, Private Bag X1, 8240 Springbok, South Africa.

visit <http://www.strippedmouse.com>
carsten.schradin@zool.unizh.ch

ChicagoBotanicGardens EvolPlantBiol

SENIOR PLANT SCIENTIST

The Chicago Botanic Garden (CBG) (<http://www.chicago-botanic.org/>), in collaboration with Northwestern University, invites applications for a SENIOR PLANT SCIENTIST position beginning no later than September 2007. Applicants should be broadly trained in plant biology or ecology in a subfield that will complement some aspect of our current research expertise in restoration ecology, conservation biology, soil ecology, population genetics, plant systematics and economic botany. The new Senior Plant Scientist will join a team of eleven Ph.D. researchers and participate in an innovative joint Master's program in Plant Biology and Conservation with Northwestern University (<http://www.plantbiology.northwestern.edu/>). We seek to appoint an individual who will take a leadership role in helping to expand the existing Master's program into a unique new doctoral program, develop a productive and creative research program, advise graduate students and interns, serve as an adjunct faculty member and teach courses in his or her area of specialty at Northwestern University.

Candidates must have a Ph.D. in biology or related discipline, a strong record of scholarship, an excellent extramural funding record for research, experience advising students at the doctoral level, and a commitment to undergraduate and graduate education. Please send a curriculum vitae, statements of research plans and teaching interests, examples of scholarly writing and three letters of reference (mailed directly from referees) by December 15, 2006, to:

Senior Plant Scientist Search Committee Attn: Luanne Janikowski Chicago Botanic Garden 1000 Lake Cook Road Glencoe, IL 60022 or ljanikow@chicagobotanic.org (electronic correspondence preferred)

Genetics Lab <Lab@chicagobotanic.org>

CityUNewYork MicrobialEvol

ASSISTANT PROFESSOR MICROBIAL ECOLOGIST Queens College of the City University of New York

The Department of Biology at Queens College of the City University of New York seeks a tenure-track Assistant Professor to begin September 1, 2007. We seek candidates with a doctoral degree, postdoctoral experience, and a record of research accomplishment in the area of microbial ecology. We seek candidates who are addressing fundamental problems at the interface of ecology, evolution and genetics in microbial systems. Successful candidates will be expected to establish an externally funded research program and teach at the undergraduate and graduate (M.A./Ph.D.) levels. Please submit a cover letter, a CV, a two- to three-page research plan, a statement of teaching interest, and arrange for submission of three current letters of recommendation. Candidates must submit materials by January 15, 2007 to: Dr. Stephane Boissinot, Chair, Microbial Ecologist Search Committee, Department of Biology, Queens College of CUNY, 65-30 Kissena Blvd., Flushing, NY 11367-1597. An equal opportunity/affirmative action/IRCA/Americans with Disabilities Act Employer

Stephane Boissinot, Ph.D. Assistant Professor Department of Biology Queens College, CUNY 65-30 Kissena Boulevard Flushing, NY 11367-1597 Tel: 718 997 3437
Stephane.Boissinot@qc.cuny.edu

EastCarolinaU BiolDeptChair

Chair, Biology Department East Carolina University

The Department of Biology at East Carolina University seeks an energetic, well-established investigator to lead the department's expanding research and teaching programs beginning on or before August 20, 2007.

The successful candidate must have a Ph.D. or equivalent research degree in one of the Biological Sciences, administrative and teaching experience, and a record

of distinguished scholarly achievements and funded research appropriate for appointment at the rank of Professor. The Biology Department offers undergraduate degrees in Biology and Biochemistry, masters degrees in Biology and Biotechnology/Molecular Biology, and participates in interdisciplinary doctoral programs in the Biological Sciences and Coastal Resources Management. The 40 member faculty has research strengths in ecology, evolutionary biology, and cell and molecular biology, and collaborates with other Departments in the Harriot College of Arts and Sciences, the Schools of Medicine and Allied Health Sciences, and the College of Technology and Computer Science. The Chair will provide leadership in the context of shared governance for the continued growth of the department's research programs, hiring of new faculty, development of undergraduate and graduate curricula, professional service, and other departmental activities.

East Carolina University, the third largest university in the UNC system, is a rapidly growing institution of over 23,000 students committed to excellence in research and teaching. Applicants must complete a candidate profile and submit statements of research interests and future plans, administrative philosophy, educational philosophy, a curriculum vitae, and contact information for four current references online at www.jobs.ecu.edu. Address specific inquiries to Dr. John Sutherland (sutherlandj@ecu.edu). for information about the Biology Department see www.ecu.edu/biology. Screening of applications will begin on December 4, 2006 and continue until the position is filled. ECU is an Equal Opportunity/ Affirmative Action University that accommodates individuals with disabilities. Individuals requesting a disability accommodation should call the ECU Office of Disability Support Services at [252] 737-1016 (Voice/TTY/Relay). Proper documentation of identity and employability are required at the time of employment. Official transcript required upon employment.

"Summers, Kyle" <SUMMERSK@ECU.EDU>

FloridaStateU ComputationalEvolBiol

School of Computational Science, Florida State University

Faculty Position in Computational Evolutionary Biology

The Computational Evolutionary Biology (CEB) group at the School of Computational Science (<http://www.scs.fsu.edu>) at Florida State University seeks candidates for a faculty position in computational evolutionary biology starting in Fall 2007. The successful applicant will have joint appointments in the School of Computational Science and a secondary department best suited to their research interests.

We seek candidates at the Assistant Professor level but exceptional candidates at more senior levels will also be considered. We are especially interested in applicants who are applying computational phylogenetics to model evolutionary processes. This includes those developing algorithms to estimate ancestral values for molecular/morphological traits, population parameters, and selection/mutation models, and those working to elucidate the evolution of protein structure/function, gene networks and morphological development. We will also consider exceptional applicants whose research centers around algorithm development for phylogenomics.

This hire builds on existing strengths in theoretical phylogenetics and population genetics at FSU and comes at a time when the university is expanding research in the life sciences through its Pathways of Excellence Cluster hiring initiatives. The department of Biological Science is currently recruiting a new cluster of faculty to explore the mappings between molecular processes and resulting phenotypes (<http://pathways.fsu.edu/faculty/igp/>). This expansion will provide excellent opportunities for new collaborations between the Computational Evolutionary Biology group and members of the Department of Biological Science.

A Ph.D. in one of the sciences is required. Postdoctoral experience is highly desired. The new faculty member will be expected to participate in MS/PhD degree programs in both Computational Science and their secondary department, to have an active research program and to be involved in teaching in both departments.

Those interested in being considered for the position should apply electronically to <http://www.scs.fsu.edu/jobs.php>. Applications received by January 1, 2007 are assured of full consideration.

Applications require electronic submission of a Curriculum Vita, research and teaching statements (PDF files preferred) and the names of four references. Inquires concerning the position should be sent to the Search Committee Chair Dr. Gavin Naylor at: ceb-hire@scs.fsu.edu. FSU is an Equal Opportunity Employer. Applications from minority and female candidates are especially encouraged.

Gavin Naylor <naylor@scs.fsu.edu>

FloridaStateU EvolBiol

Florida State University, Department of Biological Science, Tenure-track position in Organismal Biology

The Department of Biological Science invites applications for a tenure-track faculty position in Organismal Biology. We welcome applications from any sub-discipline within Organismal Biology, but are particularly interested in the areas of behavior, physiological ecology, and biomechanics. Applicants should complement existing departmental strengths in ecology, evolutionary biology, marine biology, and paleobiology (<http://www.bio.fsu.edu/ee/index.html>). Evolutionary biologists with research programs that include these or similar aspects of organismal biology (e.g., comparative studies) or who are developing model organisms for such studies are encouraged to apply.

We are seeking a candidate with notable research achievements, the ability to develop a well-funded independent research program, and a commitment to excellence in undergraduate and graduate education. We anticipate filling the position at the assistant professor level. Applicants should have a Ph.D. and postdoctoral experience.

This search will augment FSU's effort to enlarge the Biology Department through the construction of a new Life Science Research and Teaching Building and ongoing cluster hires of eight new faculty to Integrate the Genotype and Phenotype plus five new hires at our Marine and Coastal Laboratory. For detailed information please visit www.bio.fsu.edu. To apply, please submit electronic copies (PDF files preferred) of a cover letter, curriculum vitae, statements of research plans and teaching interests, and the names and addresses of three references to: Scott Steppan, Chair, Organismal Biology Search Committee, e-mail: facsearchorganismal@bio.fsu.edu.

Applications should be received by December 4, 2006 for full consideration.

FSU is an Equal Opportunity Employer. Applications from minority and female candidates are especially encouraged. –

Scott Steppan Department of Biological Science Florida State University Tallahassee, FL 32306-1100

steppan@bio.fsu.edu phone: 850.644.6536 fax: 850.644.9829

<http://bio.fsu.edu/~steppan> <http://www.bio.fsu.edu/faculty-steppan.php> Ecology and Evolution Group at FSU: <http://www.bio.fsu.edu/ee/index.html> Scott Steppan <steppan@bio.fsu.edu>

GeorgetownU Bioinformatician 2

*** The web link is now correct. ***

The Department of Biology, Georgetown University, invites applications to fill two tenure-track positions at the ASSISTANT PROFESSOR level beginning in August 2007.

We seek (1) a quantitatively oriented ECOLOGIST with research interests at the population, community, and/or ecosystem level; and (2) a BIOINFORMATICIST working in genomics or proteomics addressing fundamental hypotheses in molecular biology, genetics, or evolution. Preference is for candidates with a research emphasis that complements current faculty and interfaces with developing undergraduate programs in biology. Successful applicants will teach two courses per year, one in an area of expertise, and the other a gateway course in ecological analysis or introduction to bioinformatics, as well as establish grant-supported research programs involving both undergraduate and graduate students. Each candidate should have a Ph.D., relevant postdoctoral experience, and demonstrated ability as an Instructor.

Learn about our Department at <http://biology.georgetown.edu> Applications will include (1) curriculum vitae; (2) three letters from references able to address the applicant's research and teaching accomplishments; (3) a statement of the applicant's research interests and projected research program; and (4) a statement of the applicant's teaching philosophy and goals for a course in either ecological analysis or bioinformatics.

Applications should be submitted by December 15, 2006, to the appropriate Search Committee:

Ecologist Search or Bioinformatics Search Department of Biology P.O. Box 571229 Georgetown University Washington, DC 20057-1229

Georgetown University is an Affirmative-Action, Equal-Opportunity Employer

hamiltm1@georgetown.edu hamiltm1@georgetown.edu

GeorgetownU Bioinformaticist

The Department of Biology, Georgetown University, invites applications to fill two tenure-track positions at the ASSISTANT PROFESSOR level beginning in August 2007.

We seek (1) a quantitatively oriented ECOLOGIST with research interests at the population, community, and/or ecosystem level; and (2) a BIOINFORMATICIST working in genomics or proteomics addressing fundamental hypotheses in molecular biology, genetics, or evolution. Preference is for candidates with a research emphasis that complements current faculty and interfaces with developing undergraduate programs in biology. Successful applicants will teach two courses per year, one in an area of expertise, and the other a gateway course in ecological analysis or introduction to bioinformatics, as well as establish grant-supported research programs involving both undergraduate and graduate students. Each candidate should have a Ph.D., relevant postdoctoral experience, and demonstrated ability as an Instructor.

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Ecologist Search or Bioinformatics Search Department of Biology P.O. Box 571229 Georgetown University Washington, DC 20057-1229

Georgetown University is an Affirmative-Action, Equal-Opportunity Employer

hamiltm1@georgetown.edu hamiltm1@georgetown.edu

InstZoolLondon Head

HEAD OF THE INSTITUTE OF ZOOLOGY Based at Regent's Park, London

The Institute of Zoology is the research division of the Zoological Society of London (ZSL) and is a HEFCE-funded Institute in partnership with the University of Cambridge. The Head of the Institute of Zoology will lead its role within ZSL as an international centre of excellence in research and the teaching of science informing and underpinning the conservation of animal species and their habitats. They will also promote a sound scientific basis for all ZSL's work, including animal welfare.

Candidates must hold a PhD/higher degree and be able to demonstrate a publications output of the highest international ranking in a relevant research area. Experience of running research groups, a proven ability to raise grant income to fund their own research and staff management experience of sizeable groups are essential requirements. A job description is available from the address below.

Application by cv with covering letter, giving details of three referees to:

Ian Meyrick, HR Director, ZSL, Regent's Park, London NW1 4RY (or hr@zsl.org) by 5 December 2006.

Further information on the work of ZSL and the Institute of Zoology can be found on www.zoo.cam.ac.uk/-ioz and www.zoo.cam.ac.uk/ioz

The Zoological Society of London is a charity registered in England and Wales No: 208728

Charlotte Cowan <Charlotte.Cowan@zsl.org>

LoyolaU Bioinformatics

ASSISTANT PROFESSOR BIOINFORMATICS/GENOMICS LOYOLA UNIVERSITY CHICAGO

The Departments of Biology and Computer Science invite applications for a joint, tenure-track position beginning in August 2007. The candidate will also join the 22-member faculty in the interdisciplinary Bioinformatics B.S. program that was launched in 2005 and presently hosts a summer NSF REU program. We welcome applicants with expertise in any area of genomics (e.g. gene expression, comparative genomics, evolution), and expertise in computer algorithms and software tools for bioinformatics. Ph.D. required and post-doctoral experience preferred. The candidate is

expected to establish an extramurally supported research program involving undergraduate and M.S. students and to participate in the ongoing development of interdisciplinary, advanced degree programs. Preference will be given to candidates whose research can support competitive collaborative projects with other LUC faculty. Teaching responsibilities include 1) Genomics and 2) Computational Biology, and participation in other courses in the candidate's area of specialization. Applicants should complete the online application in full by going to www.careers.luc.edu. Review of applications will begin on December 15, 2006, and continue until the position is filled. Written inquiries about the position can be sent to hlaten@luc.edu or Howard Laten, Ph.D., Bioinformatics Search Committee, Biology Department, Loyola University Chicago, 6525 N. Sheridan Rd., Chicago, IL 60626. Please visit our web sites at www.luc.edu/depts/biology, www.luc.edu/-depts/biology, and www.luc.edu/bioinformatics/ for additional information about our programs. LUC is an Equal Opportunity/Affirmative Action Employer with a strong commitment to diversifying its faculty.

Ian A. Boussy iboussy@luc.edu Dept. of Biology 340 Quinlan Life Sciences Building Loyola University of Chicago 6525 N. Sheridan Rd. Chicago, IL 60626 tel. 773-508-3635 fax 773-508-3646

"Time flies like an arrow, but fruit flies like a banana."
-Groucho Marx

iboussy@luc.edu iboussy@luc.edu

MBL WoodsHole BiodiversityInformatics Tech

The MBL (Marine Biological Laboratory) in Woods Hole seeks applications from computer-literate biologists for a full-time position to work on biodiversity informatics. The successful candidate will contribute to the development of a growing suite of databases, tools, services and web-based applications that incorporate taxonomic principles and practices in the management of information about organisms on the internet. The project will include the development of indexing and browsing structures for on-line information, a web-based workbench to allow users to manage on-line information, automatic indexing services and taxonomically intelligent web sites. The successful candidate will liaise with expert taxonomists and will work with other programmers in developing the PHP-

based modular software environment. The position is based in a biodiversity informatics and outreach group. The successful applicant will work with staff in the uBio (<http://www.ubio.org>) and STAR (e.g., <http://microscope.mbl.edu>) projects.

The position is available immediately as a full-time position for 12 months in the first instance, continuation being contingent on performance and available funds.

The successful candidate will have an understanding of biology, code-writing and internet services. Preference will be given to candidates with degree qualifications in Biology or in Biology and Computing. The successful candidate will have demonstrable competence in PHP / my SQL and will be familiar with the assembly of dynamic web pages.

Details and application process are available at: http://www.mbl.edu/inside/what/human_resources/-job_search.php?func=detail&par=job_id=507

David J Patterson Bay Paul Center Marine Biological Laboratory Woods Hole Massachusetts 02543 USA

Phone: 1 508 289 7260 FAX: 508-457-4727

<http://www.mbl.edu/microscope> http://www.mbl.edu/research/resident/lab_baypaul.html

Employment opportunity for biologist with coding skills: http://www.mbl.edu/inside/what/human_resources/job_search.php?func=detail&par=job_id=507

David Patterson <dpatterson@mbl.edu>

MaxPlanckInst EvolBiodemography

Max Planck Institute for Demographic Research

Directors: Prof. James W. Vaupel - Prof. Jan M. Hoem

The Max Planck Institute for Demographic Research is seeking to expand further its activities in the field of

Evolutionary Biodemography

by making a number of appointments at the levels of PhD (doctoral stipend) and Post-Doc (postdoctoral stipend) or Junior Research Scientist (TVöD 13).

The successful candidates will join a team of 20 scientists and research support staff who are striving to understand the evolutionary processes shaping patterns of aging and lifespan through integrated studies of age-specific death rates, fertility rates, growth and

parental investment. The group aims to gain new insights through interdisciplinary research and in particular through the use of evolutionary approaches to understand age-specific demography. The research combines theoretical modeling with the analysis of existing databases and the execution of field and laboratory studies on various model species. The institute is seeking able scientists with strong track records who can contribute to this work in new and original ways. Applications from diverse backgrounds will be considered. Researchers with strong quantitative skills and either (1) grounding in evolutionary biology and an interest in learning demography or (2) grounding in demography and an interest in learning evolutionary biology, are particularly encouraged to apply, as are researchers with grounding in mathematical modeling and optimization who are interested in learning evolutionary biology and demography.

Applications should include a CV with a statement of academic interests and relevant experience, details of all qualifications including grades, a list of publications, the contact details of 3 referees. They should be sent by e-mail (biodemography-recruitment@demogr.mpg.de) to Prof. James W. Vaupel, Executive Director.

Review of applications will commence 15th January 2007 and continue until the positions are filled. PhD positions will typically commence September 2007 and other positions will commence as soon as possible after appointment.

Please see www.demogr.mpg.de <<http://www.demogr.mpg.de/>> for more information.

The Max Planck Society wishes to increase the share of women in areas where they are underrepresented, and strongly encourages women to apply.

The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

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

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

MichiganStateU StatisticalGenetics

Statistical/Quantitative Genetics and Genomics

The Departments of Animal Science and Fisheries and Wildlife at Michigan State University invite applications for an academic year, tenure-track position in Statistical/Quantitative Genetics and Genomics at the assistant professor level. The primary focus of this position is research yet exemplary performance is expected in the areas of teaching, outreach, and advising. The successful candidate will join a strong interdisciplinary campus-wide program in molecular, quantitative and evolutionary genetics and a well-established programmatic area in animal genomics.

QUALIFICATIONS: A Ph.D. in Genetics, Statistics, Mathematics, Animal Breeding or similar discipline and post-doctoral experience, with strong statistical and mathematical foundations. Strong quantitative, excellent communication and interpersonal skills are also essential. Preference will be given to candidates with research experience at the interface between genetics and genomics. In particular, we seek an individual devoted to the development and application of statistical methods that further bridge quantitative and molecular genetics research of complex traits for domestic and natural animal populations.

POSITION DESCRIPTION: Develop a strong extramurally-supported research program at the interface among statistical, quantitative, and molecular genetics, focusing on applications to domestic and natural animal populations. We expect the successful candidate to develop and apply theory and methodology that account for the behavior of suites of genes in research areas including, but not restricted to, genetic-environmental interactions, linkage disequilibrium, epistasis, analysis of quantitative trait loci (QTL) and polygenic traits, coalescence theory, genetical genomics, or marker-assisted selection. Extensive collaboration with empirical animal geneticists and biologists in faculties of both departments is expected. The successful candidate will teach courses in quantitative genetics and genomics each year, direct and advise students, serve on faculty committees, and provide outreach on statistical genetics and genomics to diverse state, national, international audiences interested in both domesticated and natural animal populations.

APPLICATION DEADLINE: January 31, 2007 or until a suitable candidate is found. Salary is competitive and commensurate with education, experience, and demonstration of ability. Interested persons should submit a cover letter, statements of research interests and teaching philosophy, a curriculum vitae, and examples of scientific writing. Candidates should arrange to have these materials and three letters of reference sent to:

Dr. Robert J. Tempelman, c/o Kathy Tatro Department of Animal Science, 1290 Anthony Hall, Michigan State University, East Lansing, MI 48824-1225. Tel: (517) 355-8417

Application materials can also be emailed to tatro@msu.edu

tempelma@msu.edu tempelma@msu.edu

North Carolina State U Director Museum

<http://osp.its.state.nc.us/-positiondetail.asp?vacancykey=4328-0000>

Position: NATURAL SCIENCE RES CURAT
Working Title: DIR OF RESEARCH & COLLECTIONS *Vacancy Number*: 4328-0000-0028-150
Salary Grade: FR *Salary Range*: \$43641 - \$74371
Hiring Range: \$43641 - \$74371 *Department*: ENVIRONMENT & NATURAL RESOURCES *Division*: N. C. MUSEUM OF NATURAL SCIENCES
Type of Appointment: Perm Full-Time *Location*: WAKE *Posting Date*: 10/13/2006 *Closing Date*: 12/01/2006 *Number of Positions*: 1

Description of Work

MANAGES AND SUPERVISES THE RESEARCH & COLLECTIONS SECTION; DEVELOPS RELATIONSHIPS AND COLLABORATIONS/PROJECTS WITH SCIENTIFIC COMMUNITY AND OTHER AGENCIES; CONDUCTS RESEARCH AND DISSEMINATES INFORMATION. PLAYS A KEY ROLE IN OVERSEEING SCIENTIFIC CONTENT DISSEMINATED BY THE MUSEUM AND THE NATURE RESEARCH CENTER (PLANNED NEW WING OF THE MUSEUM); WILL WORK CLOSELY WITH THE NRC DIRECTOR AND SCIENTIFIC ADVISORY BOARD ON SCIENCE CONTENT DEVELOPMENT OF THE NRC PROGRAMMING AND RESEARCH. THE DIRECTOR OF RESEARCH AND COLLECTIONS IS THE PRIMARY ADMINISTRATIVE POSITION FOR THE RESEARCH AND COLLECTIONS SECTION. IS A MEMBER OF THE MUSEUM'S MANAGEMENT TEAM AND REPORTS TO THE MUSEUM DIRECTOR. DIRECTLY SUPERVISES 8 CURATOR IIS AND THE RESEARCH ADMINISTRATIVE ASSISTANT. WILL OVERSEE THE ACTIVITIES OF 15 PERMANENT POSITIONS.

THIS POSTING HAS BEEN EXTENDED UNTIL 12/1/06. PREVIOUS APPLICANTS NEED NOT APPLY. YOUR APPLICATION IS STILL BEING CONSIDERED.

Knowledge, Skills and Abilities

REQUIRES POLICY MAKING SKILLS. ABILITY TO DEVELOP PROCEDURES AND RECOMMENDATIONS TO THE MUSEUM DIRECTOR. ABILITY TO WORK WITH A WIDE RANGE OF PEOPLE IN A POSITIVE MANNER. REQUIRES SCIENTIFIC ACCURACY OF THE HIGHEST PROFESSIONAL QUALITY. ABILITY TO DEVELOP AND PRESENT SCIENTIFIC PAPERS ACCEPTABLE TO PEER REVIEW GROUPS. ABILITY TO WORK SUCCESSFULLY BOTH INDEPENDENTLY AND WITH OTHERS, AND MUST WORK WITH A WIDE VARIETY OF PEOPLE FROM THE GENERAL PUBLIC TO INTERNATIONALLY RECOGNIZED EXPERTS IN BIOLOGICAL FIELDS.

PH.D. PREFERRED. SUPERVISION AND OVERSIGHT OF A NATURAL RESOURCES UNIT, FUNDRAISING ABILITIES, INCLUDING EXPERIENCE IN OBTAINING GRANT FUNDS FOR RESEARCH AND SPECIAL PROJECTS RELATED TO COLLECTIONS.

Training and Experience Requirements

MASTER'S DEGREE IN BIOLOGY, ZOOLOGY, BOTANY, OR OTHER NATURAL SCIENCE CURRICULUM OR RELATED FIELD AND FOUR YEARS OF PROGRESSIVELY RESPONSIBLE EXPERIENCE, PREFERABLY IN A NATURAL SCIENCE MUSEUM PROGRAM; OR AN EQUIVALENT COMBINATION OF EDUCATION AND EXPERIENCE. MANAGEMENT PREFERRED 10 YEARS OF RESEARCH AND ADMINISTRATION IN A UNIVERSITY SCIENCE, OR SCIENCE RELATED, DEPARTMENT OR A NATURAL HISTORY MUSEUM.

How to Apply

The State Application for Employment (.PD-107.) <<http://www.osp.state.nc.us/jobs/gnrlnfo.htm#app>> and a comprehensive list of State Government vacancies are available on the Internet at <http://www.osp.state.nc.us/jobs/gnrlnfo.htm#app>.

The North Carolina Museum of Natural Sciences (MNS) uses the Merit-Based Recruitment and Selection Plan to fill positions subject to the State Personnel Act with highly qualified individuals. NCDENR-Museum of Natural Sciences is an Equal Opportunity Employer. All applicants must complete and submit a State Application for Employment (.PD-107.) <[\[gnrlnfo.htm#app\]\(http://www.osp.state.nc.us/jobs/gnrlnfo.htm#app\)>. Resumes will not be considered official application of employment and will not be accepted in lieu of a State Application for Employment \(.PD-107.\) <<http://www.osp.state.nc.us/jobs/gnrlnfo.htm#app>>. Faxed applications will not be accepted. Be sure to indicate the position/vacancy number and job title in the section "Jobs Applied For". Applicants seeking Veteran's Preference for first time employment with State Government should submit either Form DD-214 or discharge orders. Application must be received in the MNS Division Personnel Office no later than 5:00 p.m. on the closing date. Salary rate depends upon training, experience, equity, and budgetary considerations. Degrees must be received from appropriately accredited institutions.](http://www.osp.state.nc.us/jobs/-</p>
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Contact Person: RHONDA CLAPP ***Contact Agency***: MUS. OF NATURAL SCIENCES ***Contact Address***: 11 W. JONES ST.

RALEIGH , NC 27601-1029 ****Contact Phone***: * 919-733-7450 ***Ext.:** *00207 * * ***Contact Fax***: 919-733-1573 * * * * ***Contact E-mail***: ** RHONDA.CLAPP@NCMAIL.NET <<mailto:RHONDA.CLAPP@NCMAIL.NET>>

Morgan_Raley@ncsu.edu Morgan_Raley@ncsu.edu

OhioStateU MathBio

The Ohio State University Assistant Professors in Mathematical Biology/ Evolution and Ecology

Department of Evolution, Ecology, & Organismal Biology (EEOB) Department of Mathematics

The Department of Evolution, Ecology, and Organismal Biology (EEOB) and the Department of Mathematics invite applications for two tenure-track positions as Assistant Professor in Mathematical Biology. While these positions will be joint hires between the two departments, one position will be tenure-eligible in EEOB and the other in Mathematics. Preference will be given to individuals with interests in areas related to strengths within the Department of EEOB, which include ecology, population biology, population genetics, systematics and evolution, fisheries and aquatic ecology, biodiversity conservation, and behavioral biology. The successful applicants will develop strong, externally funded interdisciplinary research programs, train graduate students, and contribute to undergraduate and graduate teaching. The appointees will be

part of a growing faculty in the area of mathematical biology at OSU, with opportunities to participate in the activities of the Mathematical Biosciences Institute, an NSF-funded National Institute located at The Ohio State University. Through research and teaching, the appointees will contribute to bridging biology and mathematics at OSU. Exceptional candidates at the rank of Associate or Full Professor also may be considered. Flexible work options are available.

Applicants should submit their curriculum vitae, statement of research and teaching interests, and contact information for three references online to: <https://www.math.ohio-state.edu/applications/eob/> or by mail to: The Ohio State University Department of Evolution, Ecology and Organismal Biology Chair, Mathematical Biology Search 318 W. 12th Avenue Columbus, OH 43210.

Review of applications begins December 15, 2006 and will continue until suitable candidates are hired.

To build a diverse workforce Ohio State encourages applications from individuals with disabilities, minorities, veterans, and women. EEO/AA employer.

lkubatko@stat.ohio-state.edu lkubatko@stat.ohio-state.edu

PennsylvaniaStateU HumanBrainEvol

The Department of Anthropology in conjunction with the Children, Youth, and Families Consortium (CYFC) at The Pennsylvania State University seek an Assistant or Associate Professor with a research program that focuses on the genetic and environmental factors that have influenced the evolution and development of the human brain and cognition. The successful candidate will utilize methods and techniques of comparative genomics or functional genetic analysis to shed light on the development of human cognitive, linguistic, and learning capacities, and the factors influencing the continuum of outcomes from normal to abnormal in these capacities. The candidate should have interest in relating genetic variation to developmental variation, and in working with other faculty members to investigate relationships between the brain and craniofacial development in the general context of human evolution. The candidate's research on the genetic and environmental influences on normal and abnormal brain structure and function would be central to the CYFC's

priority focus on developmental genetics and the biological bases of human development. The candidate would be expected to maintain strong links between the Department of Anthropology and the CYFC, and to interact with established interdisciplinary initiatives at Penn State such as the Huck Institute of Life Sciences, the Penn State Neurosciences Institute, the Rock Ethics Institute, and the Science, Technology, and Society Program. Review of applications will begin January 26, 2007, however, all applications will be considered until the position is filled. Please send a curriculum vitae accompanied by a letter of application, which details current and future research projects and plans for integration of basic and applied research to: Wendy Fultz, Search Committee Liaison, Box A, Department of Anthropology, 409 Carpenter Building, Penn State, University Park, PA16802. Penn State is committed to affirmative action, equal opportunity, and a diverse work force.

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

Phone: 814.865.0989 (office) 814.237.9405 (home)
Fax: 814.863.1474 Email: kenweiss@psu.edu (old ID kmw4@psu.edu, still works) Web page: <http://www.anthro.psu.edu/weiss.lab/index.html> Ken Weiss <kmw4@psu.edu>

SmithsonianInst Invertebrate Systematics

We are very pleased to announce the following position. If any of you happen to know of someone not on this list who would be a good fit for this position, we would greatly appreciate your passing this on.

Research Zoologist

Department of Invertebrate Zoology

National Museum of Natural History

Smithsonian Institution

The Smithsonian's National Museum of Natural History seeks a zoologist to conduct an integrative, collections-based research program in invertebrate systematics exclusive of hexapods, myriapods, and arachnids. Fit with existing strengths of the department's collections is desirable but not essential. The success-

ful candidate is expected to implement current methods in, e.g., phylogenetics, molecular genetics, anatomy, fine structure, karyology, and developmental biology, in pursuing a research focus in one or more of the following: systematics, taxonomy, morphology, evolution, biogeography, and conservation. Frequent publication in peer-reviewed journals and curation of collections in specialty area is expected, as well as participation in the scientific community in a manner commensurate with emerging leadership in the area of specialty.

This position is a full-time, four-year term appointment, and will be filled at the GS-12 level (salary range of \$65,048-\$84,559 per year, commensurate with experience); US citizenship required. Completed applications must be mailed to Smithsonian Institution, Office of Human Resources, P.O. Box 50638-0638, Washington, D.C. 20091 and must include (1) complete CV including list of all professional publications and all extramural grants received with agencies, funding periods and amounts; (2) one set of selected publications; (3) list of at least 5 individuals from whom letters of professional evaluation may be sought; and (4) cover letter specifically addressing the selective and quality ranking factors that appear in the announcement. For copy of the actual vacancy announcement, see: www.sihhr.si.edu. Applications must be received by Jan 9, 2007 and must reference announcement number 07CR-7020. For application procedures, call (202) 275-1102 or (202) 275-1100 TTY).

The Smithsonian Institution is an Equal Opportunity Employer

Allen G. Collins - phone: (202) 633-0645, fax: (202) 357-2986 National Systematics Laboratory of NOAA Fisheries Service, National Museum of Natural History, MRC-153 Smithsonian Institution, P.O. Box 37012, Washington, DC 20013-7012 USA

For FedEx (or other couriers), please use: Smithsonian Institution, MRC 0163, Natural History Building, West Loading Dock 10th and Constitution Avenue, Washington, DC 20560

“Collins, Allen” <COLLINSA@si.edu>

SpelmanCollege EvoFieldBiol

Spelman College invites applications for Assistant Professor in Field Biology, a tenure-track position to begin in August 2007. Candidates will be considered in

the broad areas of Evolutionary Biology or Ecology who can provide Spelman students with field experiences, both through formal course work and mentored research. The candidate will contribute to an introductory population/evolution course and develop advanced elective courses. The candidate will also be able to establish an active research program that will involve undergraduates in mentored research.

Founded in 1881, Spelman College is a private four-year liberal arts college located in Atlanta, GA. Spelman is a member of Atlanta University Center, and the oldest predominantly black college for women in the United States. The Biology Department is housed in the Albro-Falconer-Manley Science Center, a state-of-the-art 150,000 square foot research and training facility, fully equipped to support contemporary life sciences research. For more information, go to: <http://www.spelman.edu/academics/-programs/biology/index.shtml>. Applicants must have a PhD or equivalent in the biological sciences, post-doctoral research experience, and strong interest in undergraduate teaching, mentoring, and research. Spelman Biology faculty maintain independently funded research programs and engage in active research with students. Competitive start-up packages are available for new faculty. With one of the largest majors at Spelman, the Biology Department is nationally recognized for its role in training women of color for graduate and professional studies in the sciences. The successful candidates will assist in developing and teaching introductory and advanced elective courses in their area of specialization, participate in student advising, and establish a productive research program. Applicants committed to teaching and mentoring science students in a liberal arts environment should send current curriculum vitae, statement of teaching philosophy, statement of research interest, transcripts and three reference letters to:

Office of the Provost Attn: Biology Search Committee Chair Spelman College 350 Spelman Lane SW Atlanta, GA 30314-4399

Review of applications will begin December 1, 2006 and will continue until the positions are filled.

Cynthia Bauerle, Ph.D. Biology Department Chair Spelman College 350 Spelman Lane SW Atlanta, GA 30314-4399

Office: 404-270-5791 Fax: 404-270-5725

Cynthia Bauerle <CBauerle@spelman.edu>

“Dmitri A. Petrov” <dpetrov@stanford.edu>

StanfordU EvolDevelBiol

I would like to bring to your attention an ad for an Assistant Professor position in Evolutionary Developmental Biology at Stanford. Evolutionary Developmental Biology is construed very broadly here (beyond what is traditionally thought of as EvoDevo) and encompasses all work that is directed at understanding phenotypic evolution in the mechanistic context. If you have any questions please do not hesitate to e-mail Dmitri Petrov at dpetrov@stanford.edu.

Below is the official ad:

Stanford University Evolutionary Developmental Biologist Faculty Position

The Department of Biological Sciences at Stanford University seeks applicants for a tenure track faculty appointment in the area of Evolutionary Developmental Biology at the rank of Assistant Professor. We seek applicants studying problems in the evolution of development, broadly defined to include work focused on understanding mechanisms of phenotypic evolution. Applicants are expected to develop a vigorous research program and to participate in both undergraduate and graduate education. For information about the Department consult <http://biology.stanford.edu/>. Applicants should send an application containing: a cover letter (with email address and fax number), a curriculum vitae, names and email addresses of three references, a statement of research accomplishments and future plans, and a description of teaching experience to:

Chair, Evolutionary Developmental Biology Search Committee
Department of Biological Sciences 371 Serra Mall
Stanford University Stanford, CA 94305-5020

Applicants should request that their reference letters be sent directly to the above address. Materials should be received by December 1, 2006. The term of the appointment would begin September 1, 2007. Stanford University is an Equal Opportunity, Affirmative Action Employer.

– Dmitri Petrov Associate Professor Department of Biological Sciences 371 Serra St. Stanford University Stanford, CA 94305

TEL (650) 736 1169 (office) TEL (650) 736 2249 (lab)
FAX (650) 723 6132 WEB: <http://petrov.stanford.edu>
e-mail: dpetrov@stanford.edu

StateUNewYork Albany EvolInfectiousDisease

The Department of Biological Sciences, University at Albany, SUNY, invites applications for a tenure-track position at the level of Assistant Professor in the Ecology or Evolution of Infectious Disease. The Department is the focal point for a regional research emphasis on the evolutionary ecology of disease. Opportunities for collaboration extend beyond Biological Sciences to other departments in the College of Arts and Sciences, and to UAlbany's School of Public Health. The successful candidate's research will likely complement the University's current doctoral training in the Evolutionary Ecology of Disease.

Preferred applicants for the position will have postdoctoral experience, an outstanding record of achievement in research and the potential to establish an externally funded research program. All faculty participate in both undergraduate and graduate teaching and in graduate training in research. The Department of Biological Sciences has recently initiated searches for five new faculty members, and hopes to add further faculty over the next several years.

Applicants must submit by email a curriculum vitae, a summary of research and teaching interests, and should arrange submission of three or more letters of reference. The Ph.D. degree must be from a college or university accredited by the U.S. Department of Education or an internationally recognized accrediting organization. Applicants must address in the applications their abilities to work with and instruct a culturally diverse population.

Send application materials to: ecology@albany.edu. Review of applications begins November 15, 2006. However, applications will be accepted until the position is filled. Availability of the position is contingent upon final budget approval. The University at Albany, State University of New York, is an EO/AA/IRCA/ADA employer.

Ing-Nang Wang Assistant Professor Department of Biological Sciences The University at Albany
ing-nang@albany.edu (518) 591-8844

StonyBrook 6 EvoComputing

SUPERCOMPUTING AND ECOLOGY AND EVOLUTION

The newly formed New York Center for Computational Sciences at Stony Brook University has six tenure-track positions open in the area of large-scale computation. We would like to encourage candidates with interests in high-performance computing and its application to ecological and evolutionary research to apply (successful candidates with these interests would become members of the Department of Ecology and Evolution). A key resource is the acquisition (in conjunction with Brookhaven National laboratory) of a large (100 Teraflops class) supercomputer. We would like to strongly encourage persons with interests in phylogenetics, genomics, Bayesian statistics, or ecological systems modeling to apply. The official position description is available at <http://naples.cc.sunysb.edu/CEAS/nyccs.nsf/-staff>. Applications can be submitted online at <http://www.stonybrook.edu/cjo> (the posting number is F-3191-06-11). Please also notify me if you apply so that our department is alerted.

Walter Eanes Professor Department of Ecology and Evolution Stony Brook University Stony Brook, New York walter@life.bio.sunysb.edu

weanes@notes.cc.sunysb.edu

Turkey FieldAssist

We are looking for 2-3 field assistants to study activity cycles, mating behavior, and scent marking and olfactory communication of golden hamsters (*Mesocricetus auratus*) in their native habitat - an agricultural area of southern Turkey. We will have team members at the site from mid-February to mid-June and are looking for people interested in spending at least one month (if not all five) in the field. Conditions are quite pleasant - we have a house in a small village (Elbeyli); and the food is outstanding!

Field work will include searching for hamster burrows, trapping animals, attaching and implanting radio trans-

mitters, radio tracking, setting up automatic video recording equipment around burrows, monitoring individual activity with PIT-tags and readers, and conducting extensive behavioral observations. There will also be opportunities to conduct controlled behavioral experiments in the field as well as in a small "lab" enclosure we plan to build for additional experiments. Finally, field assistants will help collate and analyze data as we collect it.

We will pay travel to and from the field site and all living expenses while you're in Turkey working on the project.

We are looking for eager, interested individuals who function well in group research and living environments.

If you're interested, please e-mail me a resume/CV, a summary of research interests and field experience (if you have no field experience, explain what qualities you have that would make you a good field assistant), and names and contact information for at least three references.

Thank you, Misty McPhee

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

mem247@cornell.edu

<http://csci.mrs.umn.edu/twiki/view/Main/-MElsbethMcPhee> mem247@cornell.edu

UCaliforniaIrvine EvoEcol

Dear Brian,

Could you please post the following job ad on the evolution directory? Although the position is for an ecologist, we are happy to consider applicants in areas such as evolutionary ecology, behavioral ecology, and molecular ecology.

Thanks,

Neil

*** The Department of Ecology and Evolutionary Biology seeks to fill one tenure-track Assistant Professorship in ecology. Possible areas of specialization include behavioral, population, community, and ecosystem ecology, without regard to taxon or system. We particularly welcome applications from researchers studying any aspect of global biological

change, including invasion, biodiversity, biogeography, land transformation, restoration, biogeochemistry, climate change, and conservation. We will consider applicants interested in theory and modeling; in laboratory and field work; and in terrestrial, aquatic, and marine systems. The successful candidate will be expected to teach undergraduate and graduate courses in ecology. The Department of Ecology and Evolutionary Biology (<http://ecoevo.bio.uci.edu/>) maintains strong ties with the Department of Earth System Sciences in the area of global change ecology (<http://globalchange.bio.uci.edu/>; <http://globalchange.bio.uci.edu/>). Applications will be accepted until the position is filled, but will be considered beginning December 1, 2006.

Please submit the following via <https://recruit.ap.uci.edu/apply/list.php#BIOSCI>: statements of research and teaching interests, curriculum vitae, samples of relevant publications, and contact information for three references. Your references will need to upload letters of support directly to the website by the deadline. Applications due by: 12/01/06

The University of California, Irvine has an active Career Partner Program, is an equal opportunity employer committed to excellence through diversity, and has an ADVANCE Gender Equity Program.

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Neil D. Tsutsui, Ph.D. Assistant Professor Department of Ecology and Evolutionary Biology University of California, Irvine 321 Steinhaus Hall Irvine, CA 92697-2525
tsutsuilab.bio.uci.edu ntsutsui@uci.edu (949) 824-7525 (office)

Neil Tsutsui <ntsutsui@uci.edu>

UCaliforniaLosAngeles AvianFlu

Staff Research Associate Position at the Center for Tropical Research, University of California, Los Angeles is available to conduct research on the distribution patterns of avian influenza in passerine birds

The Center for Tropical Research at UCLA (www.ioe.ucla.edu/CTR/ <<http://www.ioe.ucla.edu/CTR/>>) is investigating the effect of avian migration and anthropogenic change on the distribution and transmission risks of avian influenza. The main objectives of the project are to determine the distri-

bution and prevalence of avian influenza strains in Nearctic-Neotropical passerine birds and to contrast the phylogeography and evolution of viral strains with the migratory patterns of birds. As part of this effort, we expect to characterize large samples of swab samples (inactivated virus) taken from migratory passerine birds for the presence, subtype and strain of avian influenza.

The staff research associate will be responsible for handling, processing, and assisting in the analysis of samples for genetic characterization of avian influenza presence/absence, subtype and strain. Major tasks will include managing sample databases and archiving/storage of samples, setting up and performing virus RNA extractions, RT-PCR setup, sequencing and possible cloning experiments. The SRA will utilize general molecular biology techniques such as PCR, cloning, sequencing, and gel electrophoresis. The SRA will perform the above under general supervision of the principal investigator and supervise the maintenance of laboratory equipment. They will be responsible for ordering necessary reagents and supplies for the lab, and train/supervise undergraduate students and lab assistants to perform some lab procedures.

Qualifications: Bachelor's degree in the biological sciences with laboratory experience in molecular biology. Experience in performing DNA extractions, PCR reactions, and dye terminator sequence reactions. The successful candidate must have the ability to help design and execute experiments, analyze experimental results and identify and solve technical problems. He/she should be able to understand and follow scientific protocols and maintain clear and concise laboratory records. He/she should be willing to help in running of the lab, including the occasional supervision of undergraduate students and to assist in ordering of supplies and the maintenance of laboratory equipment. The successful candidate is also expected to work as a member of a team and without close supervision.

Salary: \$2,083/month with full benefits (funding for one year with the possibility of renewal). The position is open until filled.

Interested candidates should e-mail a CV, a brief description of research interests, and names and contact information for three references to:

Dr. John Pollinger jpolling@ucla.edu

Dr. John Pollinger Associate Director UCLA Center for Tropical Research 300 La Kretz 619 Charles Young Drive South Los Angeles, CA 90095 310-206-5208 jpolling@ucla.edu www.ioe.ucla.edu/CTR/

tbsmith@ucla.edu

UCaliforniaMerced LabAssist

Type: Research

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

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

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

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

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

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

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

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

Deadline: Until a suitable candidate is identified.

Monica Medina Assistant Professor and Founding Faculty School of Natural Sciences University of California, Merced P.O. Box 2039 Merced CA 95344 tel: 209-381-7863 fax: 209-228-4053 mmedina@ucmerced.edu <http://qsb.ucmerced.edu/mmedina/> Monica Medina <mmedina@ucmerced.edu>

UCaliforniaRiverside ConservationBiol

Faculty Position Assistant Professor Conservation Ecology/Biology University of California, Riverside

The Department of Biology, University of California, Riverside, invites applications for a tenure-track 9-month academic position at the assistant professor rank beginning Fall 2007. A Ph.D. in Conservation Ecology/Biology or related field and at least one year of postdoctoral research experience are required. Applicants are expected to develop a fundamental research program in Conservation Ecology/Biology. Applicants with an emphasis in community to landscape or regional ecology are especially encouraged. The position is open to any area of Conservation Biology, but particular emphasis is placed on topic areas focusing on multiple species interactions examined over community to landscape or regional scales.

Potential collaborators within the Department of Biology and the College of Natural and Agricultural Sciences include over one hundred faculty, ranging from conservation geneticists and population biologists to economists and anthropologists. Opportunities also include collaborations with a variety of research centers in the College (<http://www.caas.ucr.edu/centers/-index.html>), including the UCR Center for Conservation Biology (<http://www.ccb.ucr.edu/>). Contributions to teaching at the undergraduate and graduate levels are expected, and there are a variety of depart-

mental and interdepartmental programs that provide opportunities for graduate training. Salary is commensurate with education and experience.

Applicants should submit a CV, a statement of research and teaching interests, a few selected reprints, and letters of recommendation from three referees. We encourage submission of these documents as attachments to emails directed to:

conservationecology@ucr.edu

Paper copies can be mailed to:

Conservation Ecology Search Committee Department of Biology University of California Riverside, CA 92521-0334

Review of applications will begin on January 1 and will continue until the position is filled. Appointment can be as early as July 1, 2007. For additional information about the UCR campus, the College, and the Department of Biology, visit our web sites at: <http://www.ucr.edu/>, <http://www.cnas.ucr.edu/>, <http://www.cnas.ucr.edu/>.

The University of California is an Equal Opportunity/Affirmative Action employer.

bweck001@ucr.edu bweck001@ucr.edu

UCaliforniaSantaBarbara EvolTheory

Assistant Professor: Evolutionary Theory University of California, Santa Barbara

The Department of Ecology, Evolution, and Marine Biology at the University of California, Santa Barbara seeks an interactive scientist who develops theory to address fundamental questions in evolutionary biology. Theorists whose research program additionally includes organismal, empirical or comparative approaches are also encouraged to apply. The appointment will be at the Assistant Professor level. The primary selection criteria for this position are excellence in both research and teaching. Applicants will be expected to teach courses at the undergraduate and graduate levels in evolutionary theory and in other areas according to their expertise. More details on the position can be found at <http://www.lifesci.ucsb.edu/-eemb/department/jobs/jobs.html/> Applicants should submit an application letter together with a curriculum vitae, a statement of research accomplishments and

future plans, a statement of teaching experience and interests, up to five selected reprints, and arrange for three letters of reference to be sent to:

Evolution Search Committee Department of Ecology, Evolution, and Marine Biology University of California Santa Barbara, CA 93106-9610 U.S.A.

Alternatively, applications can be sent electronically to evolutionsearch@lifesci.ucsb.edu.

Review of applicants will begin January 3, 2007, and will continue until the position has been filled.

The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service.

UCSB is an Equal Opportunity Affirmative Action employer.

Todd Oakley, Assistant Professor Ecology Evolution and Marine Biology University of California- Santa Barbara, CA 93106

oakley@lifesci.ucsb.edu oakley@lifesci.ucsb.edu

UCalifornia Merced LabAssist

Lab Assistant Position - UC Merced

The University of California is creating a dynamic new university campus and campus community in Merced, California, which opened in August 2005 as the tenth campus of the University of California and the first American research university built in the 21st century.

A full-time Laboratory Assistant position is available as part of ongoing research projects on the population genetics and molecular evolution of vertebrates. The successful candidate will be part of a multidisciplinary research team and a member of the Quantitative Systems Biology and Environmental Systems groups in the School of Natural Sciences. The ideal candidate will have experience with molecular biology techniques and possess good organizational skills.

Duties include but are not limited to: DNA extraction, PCR, sequencing, fragment analysis, cloning, SNP genotyping, and student training.

REQUIRED: B.A./B.S. in Biology. Previous research experience in molecular biology, genetics, or a related field.

Questions regarding the exact duties and responsibilities may be addressed to: aaguilar2@ucmerced.edu. Additional information about the School of Natural Sciences and the University of California at Merced can be found at <http://www.ucmerced.edu>. Application instructions: Applicants should submit a cover letter, curriculum vitae or resume, and a list of three or more references including telephone numbers and email address to: Andres Aguilar, aaguilar2@ucmerced.edu. Applicants can view the job announcement and apply directly online at:

<http://jobs.ucmerced.edu/n/staff/-position.jsf?positionId=720>

The University of California at Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students.

Deadline: Until a suitable candidate is identified.

– Andres Aguilar Assistant Professor School of Natural Sciences University of California, Merced P.O. Box 2039 Merced, CA 95344

Office: (209) 228-4057 E-mail: aaguilar2@ucmerced.edu

UCalifornia Riverside Conservation

Faculty Position Assistant Professor Conservation Ecology/Biology University of California, Riverside

The Department of Biology, University of California, Riverside, invites applications for a tenure-track 9-month academic position at the assistant professor rank beginning Fall 2007. A Ph.D. in Conservation Ecology/Biology or related field and at least one year of postdoctoral research experience are required. Applicants are expected to develop a fundamental research program in Conservation Ecology/Biology. Applicants with an emphasis in community to landscape or regional ecology are especially encouraged. The position is open to any area of Conservation Biology, but particular emphasis is placed on topic areas focusing on multiple species interactions examined over community to landscape or regional scales.

Potential collaborators within the Department of Biology and the College of Natural and Agricultural Sciences include over one hundred faculty, ranging from conservation geneticists and population biologists to

economists and anthropologists. Opportunities also include collaborations with a variety of research centers in the College (<http://www.cnas.ucr.edu/centers/-index.html>), including the UCR Center for Conservation Biology (<http://www.ccb.ucr.edu/>). Contributions to teaching at the undergraduate and graduate levels are expected, and there are a variety of departmental and interdepartmental programs that provide opportunities for graduate training. Salary is commensurate with education and experience.

Applicants should submit a CV, a statement of research and teaching interests, a few selected reprints, and letters of recommendation from three referees. We encourage submission of these documents as attachments to emails directed to:

conservationecology@ucr.edu

Paper copies can be mailed to:

Conservation Ecology Search Committee Department of Biology University of California Riverside, CA 92521-0334

Review of applications will begin on January 1 and will continue until the position is filled. Appointment can be as early as July 1, 2007. For additional information about the UCR campus, the College, and the Department of Biology, visit our web sites at: <http://www.ucr.edu/>, <http://www.cnas.ucr.edu/>, <http://www.cnas.ucr.edu/>.

The University of California is an Equal Opportunity/Affirmative Action employer.

bweck001@ucr.edu bweck001@ucr.edu

UCollegeDublin MammalComparativeMolEvol

Research Assistant, University College Dublin, Ireland
A full-time Research Assistant (RA) position is available as part of ongoing Science Foundation Ireland (SFI) funded research projects on the Comparative Molecular Evolution of Mammals in the laboratory of Dr. Emma Teeling (<http://batlab/ucd/ie>). The successful candidate will be part of an active multidisciplinary research team and a member of the UCD School of Biology and Environmental Science, University College Dublin, Ireland.

The ideal candidate will have experience with molecular biology techniques, possess good organisational skills

and show a keen interest in learning new skills. A degree or technical diploma in biology (focusing particularly on molecular biology) plus research experience is required. An M.Sc. in molecular biology and previous laboratory management experience would be desirable.

Technical research will include traditional molecular techniques: PCR, sequencing, fragment analysis, cloning, SNP/microsatellite genotyping, cell-culture. The successful candidate will be involved in database and sample organisation, student training, and laboratory group management.

This position is available from February 2007 to September 2011, contingent on a successful 12 month probationary period. The starting salary will range from 22,001- 30,904 per annum depending on experience.

Applications should include a C.V. that lists previous experience, both academic and technical, the contact details of three referees and a detailed cover letter. Please send all applications by electronic mail to Dr. Emma Teeling (emma.teeling@ucd.ie). Closing date for applications is Monday 18th December at 5.00pm. Candidates should be available for interview in January 2007.

For further information regarding this position please contact:

Dr. Emma Teeling UCD School of Biology and Environmental Science Science Centre West University College Dublin Belfield Dublin 4 Ireland Tel: 353-1-716 2263 Fax: 353-1-716 1152

Emma.Teeling@ucd.ie

UConnecticut Bioinformatics

Bioinformatics Scientist Biotechnology/Bioservices Center

The University of Connecticut seeks a Bioinformatics Scientist primarily to serve the biological science community through consultation in a Bioinformatics Facility in the Biotechnology/Bioservices Center. The Facility consists of a 17-node Apple Workgroup cluster that uses Sun Grid Engine for its distributed resource management and runs Bioteam¹'s iNquiry as a portal to over 170 applications. A Systems Manager maintains the cluster and applications. The successful candidate will provide consultation to faculty and graduate stu-

dents on the use of specific computing tools for solving a broad range of problems in biology, be able to interface with biologists and computer scientists, have an excellent command of verbal and written communication skills, and must use them effectively. Extensive experience is required in the application of software and databases used in computational biology, and in supporting desktop computing environments. Long range efforts will be to continue development and maintenance of an integrated bioinformatics network to serve a diverse research community.

Qualifications include a M.S. or Ph.D. in bioinformatics and experience or the equivalent skills to handle problems in phylogenetics, genomics, gene and protein expression analysis, database mining, molecular modeling, and structure-function analysis. Highly desirable are two or more years post M.S. work experience. The M.S. appointment will be as an Academic Assistant II or III. The successful candidate will function as a technical resource by providing support to faculty and students for on-going research activities. Candidates with a Ph.D. and a strong publication record may be eligible for an Assistant Professor In-Residence position. This position provides opportunities for research and an affiliation with an academic department. In addition, this position requires research activities supported by external grant funding, and may involve teaching. Both positions are non-tenure track annual 11-month appointments. Salary commensurate with qualifications.

Screening of candidates will begin immediately and remain open until filled. Interested candidates must submit a cover letter, curriculum vitae, and have three letters from professional referees sent to: Sue Levesque, University of Connecticut, Biotechnology/Bioservices, Unit 3149, 91 N. Eagleville Road, Storrs, CT 06269-3149.

The University of Connecticut encourages applications from under-represented groups, including minorities, women, and people with disabilities.

j.p.gogarten@uconn.edu j.p.gogarten@uconn.edu

UFlorida EvolutionaryMorphology

ASSISTANT PROFESSOR IN EVOLUTIONARY MORPHOLOGY The Department of Zoology at the University of Florida seeks an evolutionary morphologist broadly defined as one who studies morphology in an evolutionary context, from the functional, com-

parative or developmental perspectives. The successful candidate will join a vibrant and collegial research community that integrates behavior, development, ecology, genetics, morphology and physiology with evolutionary principles. The Department enjoys strong ties with the Florida Museum of Natural History, UF Genetics Institute and multiple University centers in biomedical, veterinary, environmental and agricultural sciences (see below), making it central to a University-wide expansion in the life sciences. The new hire will be expected to develop an internationally recognized research program and to excel in teaching. Teaching requirement includes comparative / functional vertebrate morphology. Please submit curriculum vitae, a maximum of three reprints, and statements of research interests and teaching philosophy, both as hard copy and in PDF format on a CD, and have three letters of reference sent to Evolutionary Morphology Search Committee, Department of Zoology, PO Box 118525, University of Florida, Gainesville, FL 32611-8525. Applications must be received by December 1, 2006. For more information, contact evomorphsearch@zoo.ufl.edu or visit <http://www.zoo.ufl.edu/evomorphsearch>. Our department is committed to diversity as a component of excellence. Women, minorities and members of other underrepresented groups are particularly encouraged to apply. The University of Florida is an equal opportunity institution.

– Charles F. Baer Assistant Professor Department of Zoology 223 Bartram Hall P. O. Box 118525 University of Florida Gainesville, FL 32611-8525 USA

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

UGeorgia PlantEvol

As seen in the 13 October issue of Science:

PLANT DEVELOPMENT

The Plant Biology Department at the University of Georgia (UGA) has an opening at the ASSISTANT PROFESSOR level for a PLANT DEVELOPMENTAL BIOLOGIST interested in answering questions of fundamental importance to plant growth and development. Those who use comparative genomics approaches are particularly encouraged to apply. The successful candidate is expected to develop a vigorous externally funded

research program. The Plant Biology Department has strengths in several areas and extensive links to other plant-related programs on campus; further information about the Department is available at website: <http://www.plantbiology.uga.edu> To apply, candidates should (1) combine a cover letter, curriculum vitae, short statements of research interests and teaching philosophy into a single PDF file; (2) three reprints of research papers should also be combined into a separate PDF file. These two files should then be submitted online at website: <http://www.plantbio.uga.edu/positions.html> (3) Candidates should arrange to have four letters of recommendation submitted to the same website, or sent to: Chairperson, Plant Development Search Committee, Plant Biology Department, Miller Plant Sciences Building, University of Georgia, Athens, GA 30602-7271

Applications received by 17 November 2006 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 underrepresented groups. UGA is an Equal Opportunity Employer

ULosLagos Molecular Evol salmonid invasions

2 Fixed-term Research positions:

Jan 2007-Sep 2009

Molecular Evolution of salmonid invasions

Evolutionary Impact of exotic aquaculture

Laboratory of Genetics & Aquaculture University of Los Lagos (Osorno - Chile) in collaboration with:

University of Wales Swansea (UK), Centre for Ecology & Hydrology (UK),

Oregon State University (USA), University of Victoria (Canada), US Geological Survey (USA), and Victoria University of Wellington (New Zealand)

Applications are sought for two 3-year research positions available from January 2007 to study the impact of fish farm escapes and other exotic cultured species on native Chilean ecosystems. As part of a DEFRA-funded Darwin Initiative, all suitably qualified candidates will be considered but preference will be given to Chilean citizens. Interested candidates should send a covering letter and CV with contact details of two

potential referees to: Dr. Gonzalo Gajardo or Dr. Carlos Garcia de Leaniz before December 10th 2006 (16:00 hrs)

1- Molecular Evolution of salmonid invasions

Salary: Chile\$ 8,000,000 - 10,000,000, depending upon qualifications

Essential: BSc (upper second or first class) or equivalent in Biology or Life Sciences. Laboratory experience in the use of molecular methods for population assignment, particularly microsatellites. Excellent oral and written communication skills in English. Ability to work independently as part of a larger team. Willingness to combine laboratory work with field sampling. Driving licence

Desirable: Experience in working with salmonids, postgraduate qualifications (MSc, PhD); scientific publications.

2- Evolutionary Impact of salmonid aquaculture

Salary: Chile\$ 8,000,000 - 10,000,000, depending upon qualifications

Essential: BSc (upper second or first class) or equivalent in Biology or Life Sciences.

Experience in sampling aquatic ecosystems. Excellent oral and written communication skills in English. Ability to work independently as part of larger team. Willingness to combine laboratory work with extensive field sampling. Driving licence.

Desirable: Experience in working with salmonids, postgraduate qualifications (MSc, PhD); scientific publications.

Contacts: ggajardo@ulagos.cl or c.garciadeleaniz@swansea.ac.uk

Dr. Carlos Garcia de Leaniz University of Wales Swansea Biological Sciences Singleton Park, SA2 8PP Swansea, UK Tel. +44 (0) 1792 295383 Fax. +44 (0) 1792 295447 email. c.garciadeleaniz@swansea.ac.uk

"GarciaDeLeaniz C." <C.GarciaDeLeaniz@swansea.ac.uk>

Thanks,

Chris Dick

Assistant Professor of Forest Landscape Ecology

The School of Natural Resources & Environment at the University of Michigan seeks candidates, preferably with postdoctoral experience, to fill a tenure-track, assistant professor position in Forest Landscape Ecology. The School is an interdisciplinary academic unit with existing strengths in terrestrial ecology as well as in allied areas of aquatic ecology, environmental social science, and landscape architecture. We seek accomplished individuals whose primary research interests focus on the mechanisms by which climate change will alter the geographic distribution of forest plants and communities. In particular, we seek individuals who: i) employ novel approaches to understand the biological mechanisms by which climate has shaped the past and current geographic extent of forest plants, and ii) use that knowledge to understand and forecast how future climates will alter forest distribution and composition at local, regional and global scales. Candidates are expected to develop field-based courses at the undergraduate and graduate levels, focusing on the ecology of forest plants, communities, and ecosystems relevant to the region. A curriculum vitae, statements of research and teaching interests, and three letters of reference should be emailed to: Dr. Donald R. Zak, Chair, Forest Landscape Ecology Search, School of Natural Resources & Environment, University of Michigan, Ann Arbor, MI 48109-1041 at flesearch@umich.edu. Applications will be considered until January 5th, 2007.

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

Christopher W. Dick Ecology and Evolutionary Biology The University of Michigan 830 North University Ave Ann Arbor, MI 48109-1048

Office phone 734-764-9408

<http://www.lsa.umich.edu/eeb/people/cwdick/-index.html> -

Christopher Dick <cwdick@umich.edu>

UMichigan EcolEvol

Dear Brian,

Would you please post the job announcement pasted below to EVOLDIR? Phylogeographers and palynologists are encouraged to apply.

USouthampton 4 EvolBiol

Four Lectureships in Biological Sciences School of Biological Sciences £30,606 - £38,772

The University of Southampton is widely regarded as one of the most dynamic and innovative institutions in the UK. As a research-led University it is rated among the top ten in the country for the quality of its research and scholarship. In the 2001 Research Assessment Exercise the School of Biological Sciences was rated 5.

As part of a major investment programme the School of Biological Sciences is seeking to make four new academic appointments at the Lecturer level with a start date of 1 October 2007. These appointments are to build capacity in the key research areas of: * Cellular and Molecular Biology * Ecology and the Environment * Neuroscience

We are particularly keen to attract persons with a multidisciplinary approach to their research and the skills and commitment to take advantage of the expertise in biosciences, physical sciences, computation and mathematics available in the School and University. Applicants with interests ranging from molecular to whole organism and ecosystem are invited to apply. As part of your application you are requested to state how your work can integrate or complement the existing research strengths of the School and University. Further details of our research activity can be found at: www.sbs.soton.ac.uk/newapplicants. Informal enquiries concerning these posts are welcome and may be made to Professor David Shepherd, telephone +44 (0)23 80593349, email: ds@soton.ac.uk or to Professor Hugh Perry, telephone +44 (0) 2380595931, email: v.h.perry@soton.ac.uk.

Interviews will be held in February 2007.

To find out more about us and the roles we have on offer visit www.jobs.soton.ac.uk and apply on-line. Alternatively email: recruit@soton.ac.uk or tel: 023 8059 2750. The closing date for this position is 20 December 2006. Please quote reference number 0533-06-M on all correspondence.

A.R.Kraaijeveld@soton.ac.uk

USouthernMississippi Bioinformatics

The University of Southern Mississippi Department of Biological Sciences invites application for two tenure-track assistant professor positions in Computational Biology. Both positions are tied to the development of the NSF funded Mississippi Computational Biology Con-

sortium, a network of expertise that will collectively and cooperatively interface computer science and technology with the biological sciences within the State of Mississippi. Successful candidates will be expected to establish an active, extramurally funded research program, mentor graduate students and participate in undergraduate and graduate teaching in his area of expertise. Postdoctoral research experience is required; salary is commensurate with qualifications and experience.

Bioinformatics: We seek expertise in the application of informatics tools to biological problems that enhance a growing strength in cellular and molecular biology. Suitable research areas include, but are not limited to, comparative genomics, data mining, systems biology or structural informatics. The successful candidate will have the opportunity to interact with the Mississippi Functional Genomics Network, a competitively funded NIH consortium that spans the disciplines of genomics, proteomics, cellomics and bioinformatics (<http://mfgn.usm.edu/mfgn/>). Applicants should submit a letter of application, curriculum vitae, statement of research plans, copies of pertinent reprints and three letters of reference to Dr. Shiao Wang, Bioinformatics Search Committee, Dept. of Biological Sciences, The University of Southern Mississippi, 118 College Drive, Hattiesburg, MS 39406-5018. Review of applications will begin December 1, 2006, and continue until the position is filled.

Ecoinformatics. We also seek a colleague who uses computational techniques to study ecological processes that span large spatial and temporal scales, possibly including the ecological effects of climate change, the progress and impact of invasive species, the spread of vector borne diseases or status of threatened and endangered species. Applicants should submit a letter of application, curriculum vitae, statement of research plans, copies of pertinent reprints and three letters of reference to: Dr. Brian Kreiser, Ecoinformatics Search Committee, Dept. of Biological Sciences, The University of Southern Mississippi, 118 College Drive, Hattiesburg, MS 39406-5018. Review of applications will begin December 1, 2006, and continue until the position is filled.

The University of Southern Mississippi, a Carnegie High Research Activity Institution with over 14,000 students, is located in Hattiesburg, Mississippi, near the Gulf Coast and abundant opportunities for outdoor recreation. Hattiesburg is the medical, commercial and cultural center of south Mississippi and is ranked in the top five small metropolitan areas in the United States. The department of biological sciences is comprised of over thirty faculty and offers baccalaureate degrees in

biological sciences and marine biology. Over 70 graduate students currently pursue Masters and doctoral degrees. Further information about the Department may be found at <http://www.usm.edu/biology/>. The University of Southern Mississippi is an affirmative action/equal opportunity employer.

– Brian Kreiser Associate Professor Department of Biological Sciences 118 College Drive #5018 University of Southern Mississippi Hattiesburg, MS 39406 601-266-6556

Brian.Kreiser@usm.edu Brian.Kreiser@usm.edu

UTexasElPaso EvolutionaryGenet

As seen in the 03 November issue of Science:

UNIVERSITY OF TEXAS AT EL PASO

ASSISTANT PROFESSOR GENETICS

The Department of Biological Sciences at the University of Texas at El Paso (UTEP) seeks to fill a tenure-track Assistant Professor position in the area of Evolutionary Genetics. Responsibilities include teaching and mentoring at both the undergraduate and graduate (MS and Ph.D.) levels and the establishment of an extramurally funded genetics research program. Research resources at UTEP include core facilities for molecular and cell biology, DNA sequencing, tissue culture, and microscopy; curated biosystemic collections of vertebrates, invertebrates, and plants; a 39,000 acre research station located in a Chihuahuan Desert landscape; and a biostatistics consulting facility.

Required Qualifications: Ph.D. in Genetics or related field

Preferred Qualifications: Applicants whose research combines molecular and field-based techniques; post-doctoral research experience; ability to collaborate with other members of the Department.

To Apply: Candidates should send an application that includes curriculum vitae, a statement of research interests, a brief description of teaching philosophy and professional experience, and 3 letters of recommendation to: Search Committee Chair (Genetics), Department of Biological Sciences, The University of Texas at El Paso, El Paso, TX 79968-0519. Review of complete applications will begin November 15, 2006

The University of Texas at El Paso does not discriminate on the basis of race, color, national origin, sex,

religion, age, disability, veteran status or sexual orientation in employment or the provision of services.

Max Shpak Dept. of Biological Sciences University of Texas at El Paso 500 W. University Avenue El Paso, TX 79968

“Shpak, Max” <mshpak@utep.edu>

UVirginia ResAssist PlantEvol

RESEARCH ASSISTANT POSITION: PLANT EVOLUTIONARY ECOLOGY UNIVERSITY OF VIRGINIA

A research assistant position is available immediately for an NIH-sponsored project on the demography and evolution of aging in plants. The RA position includes involvement in field and greenhouse experiments designed to understand the dynamics of mortality and reproduction in a natural plant population. If interested, the individual hired is also welcome to participate in departmental seminars, discussion groups, and courses. The position is ideal for a student considering graduate school who wants paid research experience before committing to a program.

Requirements for the position are a bachelor's degree in biology, botany, or environmental science, and basic computer skills. Research experience and an enthusiasm for field work will be advantageous.

Applications will be considered as they arrive. To apply, please send a curriculum vitae and name of three references to:

Deborah Roach Associate Professor Department of Biology 266 Gilmer Hall University of Virginia Charlottesville, VA 22904 phone: (434)982-4858

Deborah Roach <dar2x@virginia.edu>

UWashington Statgen

The Department of Biostatistics wishes to fill one or more research or regular track faculty positions at any level in statistical genomics/proteomics. The appointees will be able to interact with an unusually

strong group of faculty and students in several departments at the University of Washington and at the Fred Hutchinson Cancer Research Center. Appointments are full-time. Ph.D. required in Biostatistics, Statistics or a related field. Duties will include methodological research, biomedical research collaboration and teaching. Submit letter of interest, curriculum vitae and have four signed original letters of reference sent by December 31, 2006 to Biostatistics Search #1, Department of Biostatistics, Box 357232, University of Washington,

Seattle WA 98195-7232. Enquiries may be addressed to bsweir@u.washington.edu

There are also positions available in the Departments of Genome Sciences and Statistics.

– Bruce S. Weir Professor and Chair, Department of Biostatistics University of Washington Seattle, WA 98195-7232 Phone (206) 221-7947. Fax (206) 543-3286.

Bruce Weir <bsweir@u.washington.edu>

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AFLP data sets

Dear population geneticists,

I'm working on a method for population genetic analysis of AFLP data (or any multilocus dominant genotypic data), and I'd like to try it out on some real data. Please email me at paulj@stats.gla.ac.uk if you would be willing to let me look at your data set (I promise not to do anything underhand with it).

The idea of the method is to get around the usual problem of having to assume HWE (or some fixed level of deviation from HWE) in order to estimate allele frequencies, or some statistic that depends on allele frequencies. Specifically, I would be trying to find information on Fis in your data.

Ideally, the genotypes should:

- come from a species where heteromorphic (e.g. XX/XY or XX/XO) sex chromosomes form at least 5% of the genome;
- have at least 200 polymorphic loci;
- have at least 100 individuals of each sex (sex must be known);
- have minimal genetic structure (low Fst).

These aren't hard-and-fast rules. E.g. small sex chromosomes would be offset by a large number of loci. The population doesn't have to be in HWE (Fis can be large).

Please email me at paulj@stats.gla.ac.uk if you think you can help.

Thank you, Paul

Paul Johnson Robertson Centre for Biostatistics Level 11, Boyd Orr Building University of Glasgow University Avenue Glasgow G12 8QQ UK Tel: +44 141 330 3829 Fax: +44 141 330 5094 paulj@stats.gla.ac.uk

<http://www.stats.gla.ac.uk/~paulj/index.html>
paulj@stats.gla.ac.uk paulj@stats.gla.ac.uk

AFLP or Microsat

Dear people,

We are working on a plant species with very weak genetic differentiation among the subpopulations (overall Fst was 0.018), revealed by 11 microsatellite (each produced 9.2 alleles on average), which makes the individual assignment (to determine the possible inter-population migration) impossible. We are wondering whether AFLP could produce better resolution on population genetic differentiation, because AFLP is supposed to sample a larger area of genome than microsatellite does. The species is long-lived (up to 300 years), birds and small animals pollinated.

We appreciate your suggestions.

Tianhua He Department of Environmental Biology Curtin University of Technology PBox U1987, Perth, WA 6845 Australia Tel: 61 8 94803642 Fax: 61 8 94803641 Email: thhe@bgpa.wa.gov.au

Tianhua He <thhe@bgpa.wa.gov.au>

AFLP scoring

Dear Evoldir members,

I am just starting to use AFLP's (having used microsats before), and am looking for any tips/suggestions when initially scoring chromatograms or deciding alleles from these for binning i.e.

Do you have a minimum signal level for scoring an allele that you do not drop below?

Do you look for a particular pattern leading upto a maximum peak?

Do you ignore the first 50 bp of the signal to let the machine 'settle'?

Etc, etc.

Many thanks in advance for any advice given,

Eddie Brede

Eddy Brede <brede@mpil-ploen.mpg.de>

AFLP scoring answers

Hi Evoldirs,

thank you very much for your answers, it appears a similar question was asked not so long ago. I have pasted the replies below.

Hi, Are you using the automatic scoring from Genotyper? My advice is don't, you can not really trust the machine to score your peaks only based on the peak size. Are you defining categories? If you define a category by drawing the square on a peak and then ctl+l (give it a name and select highest peak, exclusive, with (scaled) height of at least____) for each band individually you are more likely to extract the real data. It is like giving standards for each band-size individually. You'll probably find that each band-size has its own characteristics and then you'll be able to tell between noise and a real peak. You may have to avoid overlapping categories, since they are very noisy. You'll find that some peaks need the (scaled) height of 1000 and oth-

ers of 90. It is kind of half-ways between hand-scoring and the automatic method. Yes, it is time-consuming, a good two weeks of scoring only, but is worthy. I have also found that Nei's distances are not appropriate for AFLPs, they assume the same mutation rate across loci. For a dendrogram try Reynolds, Weir and Cockerham's 1983 as implemented in Phylip. That one does not assume equal mutation rate. Hope this helps,

Alejandro Nettel-Hernanz Ph.D. Candidate Dodd Lab
UC Berkeley ESPM-Ecosystem Sciences 323 Mulford
Hall

Hi,

I have spent a lot of time also thinking about the problem with calling AFLPs. I have been working with Steve Keller at UVA, and I think an email he sent me recently might be helpful.

Second, I've fiddled with this quite a bit, and thought about it even more (sometimes to the point of keeping me up at night!). As you say, it's subjective. I don't see any way around that. However, my best solution has been the following: First, make sure you assign each individual sample a relative signal strength (Genotyper has a way of doing this automatically), so you normalize signal strength among your samples. Next, define your loci across the entire sample using a very stringent (i.e., high RFU threshold, say 200) criteria. The intent here is that only "real" loci are going to get defined. This approach requires a high signal strength in only one individual for a locus to get defined. After I get my loci definitions this way, I then score all the samples with a less stringent RFU requirement (say 50). That way, you're scoring individuals for loci that you have high confidence are real and not artifactual, but you are lenient on whether any given individual is present for that locus.

I have started to use this technique and feel more confident when I'm seeing a peak vs. noise. I think that 20 is too low.

Hope this helps. Amy

Hi, I don't know what instrument you are using to run your AFLP samples, but the ABI capillary system we've been using (ABI 3100) only processes peaks above 50. It's suggested you do not score low peaks as it's close to instrument threshold. So if I'm correct people usually score peaks that are mostly above 100. The problem with smaller peaks is not only the risk that another small peak won't be detected, but also some small peaks can be just AFLP artefacts -> hence 2 possibilities of introduction of noise into your dataset. Using AFLP, you should have a plenty of markers, so using less, but more correct ones should only be an advan-

tage. Another thing to look at is the size of your bins (categories) in Genotyper. I think the recommended size is around 1bp. So adopting rather broader concepts of categories - as size of peaks may vary slightly between runs or capillaries - may also reduce some noise in your data. Especially if you have a lot of markers that are quite close to each other and/or many diverse populations or even species. Hope this helps & good luck with your work! Sarka

Sarka Jahodova Department of Ecology Charles Uni-
versity Vinicna 7 128 44 Prague Czech Republic

Hi,

I have been wrestling with my AFLP's for a couple of years now, so I can tell you what I've learned. I'd be interested to hear what others advise you as well.

Abundant noise is common for AFLP's, as well as problems with changes in signal strength between runs, and differences in peak size due to heterozygosity and superimposition of different fragments of the same length. Because of these things, it is appropriate to limit your 'loci' to those that you can score reliably, even in weak samples. I focus on peaks that appear several times the strength of the background noise in at least some samples, then go through and look carefully for peaks of any size in those positions in the other samples. I do not feel that differentiation of heterozygotes and homozygotes is possible or reliable or distinguishable from superimposed fragments of different origin, so I score any size peak at a locus equally. It is important to run samples in

— / —

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

Agilent chips answers

We would like to thank all that responded. The limited consensus suggests that Agilent chips will suit our needs. We will be purchasing them in the near future and would be happy to discuss our experiences with the curious. As we are also in the process of designing the chip, we'd be glad to correspond with people interested in chip and experimental design as well.

— We are in the market for in situ oligo microarrays. The purchase of the microarrays will represent a signifi-

cant investment of our resources and dictate the course of several projects over the following months. Based on our needs, we are preparing to purchase our chips from Agilent. Before we do so, however, we would like to poll the community for any experiences, good and bad, that people may have had with Agilent chips.

If you have experience with Agilent chips and would like to share them with us (or would recommend an alternative vendor), we would appreciate you comments.

Thanks

Patrick Danley

Kerry Shaw

—

Patrick Danley, Ph.D.

Postdoctoral Researcher Department of Biology University of Maryland

phone 301.405.8303 fax 301.314.9358 email pdanley@umd.edu <http://www.life.umd.edu/biology/-shawlab/patrickdanley> Evolutionary Genetics Reading Group <http://www.life.umd.edu/biology/shawlab/-patrickdanley/evolgen/> patrick.danley@gmail.com

Alexandrium samples

Dear colleagues,

We are analysing *Alexandrium catenella* and *A. tamarense* (harmful algae) phylogeography all around the world (all continents). For this, we need *Alexandrium* DNA, or alive cells, or frozen pellets, ... in order to obtain enough DNA for 10 to 20 PCR.

This is not so simple and needs probably more explanation. If you are interested in such a collaboration, please contact me, we'll explain how to do.

Patrick BERREBI UMR 5554 "Institut des Sciences de l'Evolution" Equipe Méta-populations, Conservation et Co-évolution Université Montpellier II CC 065. Place E. Bataillon 34095 Montpellier Cedex 5 (France)

Mél: berrebi@univ-montp2.fr Tél. France 04 6714 3732 - International 33 4 6714 3732

Barnacle DNA extraction

Dear all,

We are having big problems getting stable DNA out of a barnacle, *Balanus amphitrite*.

Other organisms, including a local barnacle, work fine with a simple SDS/Tris buffer, NaAc prec, and then ethanol precipitation.

This one doesn't give any DNA that way. Neither do any of the column based extractions we have tried. The best so far is a CTAB based method that we normally use for plants. It has two chloroform extraction steps. But even that DNA (a lot of it, dissolved in TE) degrades fairly quickly after extraction.

Does anyone have an idea why the column based extractions and purifications give us no DNA at all.

Any other suggestions? We are rather desperate.

I am happy to post the suggestions on evoldir or email to individuals.

Best wishes, Kirsten

Dr. Kirsten Wolff Reader in Evolutionary Genetics University of Newcastle, School of Biology and Psychology Division of Biology Ridley Building, room 457, Newcastle NE1 7RU, UK phone: (+44) 0191 222 5626 fax: (+44) 0191 222 5229

Kirsten.Wolff@newcastle.ac.uk

Caviar test

Hi All

Just wondering if anyone is aware of a presumptive for determining caviar species (e.g. a chemical test).

A college is looking for a quick method to initially determine caviar species in the field prior to further analysis.

Thank you

Tiawanna

Dr Tiawanna Taylor Dept of Zoology School of Biological and Conservation Sciences University of KwaZulu-

Natal Private Bag X01 Scottsville 3209 KwaZulu Natal
South Africa

Email: taylorl@ukzn.ac.za Tel: +27 (0) 33 260 6032
<http://www.ukzn.ac.za/Biology/TeeTaylor233.aspx>

TaylorT@ukzn.ac.za TaylorT@ukzn.ac.za

Creation Evolution Survey

Hi,

I am teaching evolutionary biology in a Brazilian University and some of my students are interested in start a survey project about what the parents and brothers think about creation and evolution.

Unfortunately, we dont have ARTICLES doing a similar survey to compare with our future data.

Therefore, does anyone have articles like that? Could you please send us?

Thanks for any help!!!

Voltolini

Prof. Dr. J. C. VOLTOLINI Grupo de Estudos em Ecologia de Mamiferos (ECOMAM) Universidade de Taubate - Departamento de Biologia Taubate, SP. 12030-010. E-Mail: jcvoltol@uol.com.br Website do ECOMAM: <http://jcvoltol.sites.uol.com.br/> Fotos de Cursos: <http://jcvoltol.fotoblog.uol.com.br/> Currículo Lattes: <http://lattes.cnpq.br/8137155809735635> Fotos Artísticas: <http://voltolini.fotos.net.br/texturas> “Siamo tutti angeli con un’ala e possiamo volare soltanto se ciabbracciamo”

jcvoltol@uol.com.br

Creation Evolution Survey NullHypothesis

Hi,

This is just a thought, but it seems like the appropriate null hypothesis to compare evolution and creationism to is that the Earth and all species have always existed as they currently exist. Then, to support either evolution or creationism, one would have to look at the evidence

to support either one in comparison to that null hypothesis. I don’t have a background in philosophy of science, but this seems like a more appropriate framework than the current “creation science/intelligent design” view that creationism is the null hypothesis and any “lack of evidence” for evolution is support for intelligent design. I welcome any feedback on this thought.

David Liberles University of Wyoming

David Liberles <liberles@uwyo.edu>

On Thu, 2006-11-23 at 01:12 -0500,
evodir@evol.biology.mcmaster.ca wrote: Hi,

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Prof. Dr. J. C. VOLTOLINI Grupo de Estudos em Ecologia de Mamiferos (ECOMAM) Universidade de Taubate - Departamento de Biologia Taubate, SP. 12030-010. E-Mail: jcvoltol@uol.com.br Website do ECOMAM: <http://jcvoltol.sites.uol.com.br/> Fotos de Cursos: <http://jcvoltol.fotoblog.uol.com.br/> Currículo Lattes: <http://lattes.cnpq.br/8137155809735635> Fotos Artísticas: <http://voltolini.fotos.net.br/texturas> “Siamo tutti angeli con un’ala e possiamo volare soltanto se ciabbracciamo”

jcvoltol@uol.com.br

Diversity Project

Dear Colleagues,

For the third consecutive year, we will be running The Diversity Project, a research opportunity at Boston University for under-represented minority undergraduate students . Students will integrate hands-on field research on Indonesian coral reefs and cutting edge genetic research at Boston University. The project will explore the origins marine biodiversity in the Coral Triangle in an effort to improve conservation of this remarkable ecosystems. Students are fully funded

for both living and travel expenses. Visit <http://people.bu.edu/pbarber/Intro.htm> for more information and on-line application.

This research opportunity has been a remarkable personal and professional experience for the students who have participated. Please encourage any students whom you believe would benefit from such an experience to apply. For further information, please contact Dr. Paul Barber (pbarber@bu.edu). We look forward to hearing from you.

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

ESF ThermalAdaptation workshop

We are launching a new ESF Programme on Thermal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics (ThermAdapt). Information, particularly a summary of the scope of the programme, is now available at http://www.esf.org/esf_article.php?language=0&activity=1&domain=3&articlea0&page04.

The Objective of this ESF Programme is to foster a multidisciplinary European network of scientists working on thermal adaptation. We particularly aim to integrate research at multiple levels of investigation, including genetics, physiology, ecology, behaviour or theory. Interested persons or groups are encouraged to join our activities. These include advertising their expertise via our web site, and participation in various activities to be announced separately and regularly over the next 5 years such as workshops, training courses, short and long exchange grants, exchange of specimens and expertise, sharing of facilities, and scientific collaboration of any kind.

We here Call for Applications for local organization of Workshops on specific topics within the realm of the ThermAdapt Programme

Such workshops, financed by our ESF programme if approved, bring together between 10 and 50 participants for 2 to 4 days to focus on a specific issue and are planned to occur on an annual basis over the next 5 years. We start by refrain-

ing from narrowing down the topic of possible workshops, although in the long term some structure will be desirable. See <http://www.esf.org/generic/1817/-Annex4GuidelinesforScienceMeetings.pdf> for application guidelines and forms. The deadline is 15 February 2007.

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

If you wish to be included in the ThermAdapt e-mail list to receive regular updates on Programme activities, please send an email to srenay@esf.org.

For further inquiries contact:

Sarah Renay (ESF office liaison; Email: srenay@esf.org)
Wolf Blanckenhorn (chair; Email: wolf.blanckenhorn@zoolmus.unizh.ch)
Mauro Santos (co-chair; Email: mauro.santos@uab.es)

Send applications, best by e-mail, to:

Dr. Wolf Blanckenhorn Zoological Museum, University of Zurich-Irchel Winterthurerstrasse 190 CH-8057 Zurich Phone: +41 44 635.47.55 Fax: +41 44 635.47.80 e-mail: wolfman@zoolmus.unizh.ch http://www.unizh.ch/zoolmus/zmneu/englisch/forschung_e/blanckenhorn_wolf_e.html http://www.esf.org/esf_article.php?language=0&articlea0&domain=3&activity=1

wolfman@zoolmus.unizh.ch

wolfman@zoolmus.unizh.ch

Entomology granting agencies

Dear All,

I am engineer agronomist (specialist in fauna and tropical flora) having more 10 professional experience years in forest inventory, of fauna mammal, of arthropods and in biologic resource conservation. Author of several scientific publications and techniques. Member of the subgroup of work Odonata Specialist Group of the International union for the Conservation of the Nature (IUCN) and of several associations (group of work of validation of documents of impact survey on the environment to the Beninese agency for the environment,

Association Beninese of Environnemental assessment, etc.) of the natural resource conservation. Next to it I participated in all works of research (in sea and on the long of coasts) on cetacean (whales and dolphins) and the turtles marine of the Atlantic of Benin.

I finished since the year spends to my expenses a work on the edible insects of South-Benin titled Tchibozo, S., van Huis, A. & Paoletti, M.G. 2005. Notes on Edible Insects of South Benin: A Source of Protein. In Ecological Implications of Minilivestock (Role of Rodents, Frogs, Snails, and Insects for Sustainable Development) Maurizio G. Paoletti (ed.): Dipartimento di Biologia, Università di Padova, Padova, Italy. Science Publishers, Inc. 245-251. I remain available to send the article to all no one that would make the demand.

I ask you to suggest me of addresses of a structure can grant a small subsidy to deepen works on the edible insects of Benin.

Best regards.

M. Sévérin Tchibozo Centre de Recherche pour la Gestion de la Biodiversité et du Terroir 04 B.p. 0385 Cotonou, BENIN Tél: (+229) 95063950 / 21353095 / 21303084 Fax (+229) 21303084 E-mail: tchisev@yahoo.fr <http://www.cerget.org/> <http://www.cerget.org/> <http://www.hyperinfo.de/arcona/tchisev@yahoo.fr>

work for Evolutionary Biology <http://evonet.sdsc.edu/> more geology: Paleontological Society <http://www.paleosoc.org/> Geological Society of America <http://www.geosociety.org/> more systematics: Society of Systematic Biologists <http://systbiol.org/> Society of Australian Systematic Botanists <http://www.sasb.org.au/> Systematics Association <http://www.systass.org/> Systematics Association of NZ <http://www.math.canterbury.ac.nz/bio/SYSTANZ/contactus.html> South African Society for Systematic Biology (web page??) Willi Hennig Society <http://www.cladistics.org/> -

Graham Wallis (Assoc Prof in Genetics) office +64 3 479 7984 Department of Zoology fax +64 3 479 7584 University of Otago home +64 3 455 4048 PO Box 56, Dunedin g.wallis@otago.ac.nz Aotearoa-New Zealand courier 340 Great King St

<http://www.otago.ac.nz/Zoology/genetics/index.html>

<http://www.otago.ac.nz/Zoology/staff/academic-wallis.html> Assoc Ed, Molecular Ecology <http://www.blackwellpublishing.com/journals/mec> Vice-President, Society for the Study of Evolution

graham.wallis@stonebow.otago.ac.nz

gra-

ham.wallis@stonebow.otago.ac.nz

Evolution societies

Gisella Caccone and I would like to build a global list of Evolution Societies with a view to promoting more communication and interaction with SSE. Preliminary Googling met with limited success (below). We would appreciate hearing about other societies whose primary focus is evolutionary biology.

cheers, graham

evolution societies: Society for the Study of Evolution <http://www.evolutionarysociety.org/> Society for Molecular Biology and Evolution <http://www.smbe.org/> European Society for Evolutionary Biology <http://www.esbe.org/> Canadian Society for Ecology and Evolution <http://www.ecoevo.ca/en/index.htm> Australasian Evolution Society <http://www.evolutionau.org> also: American Society of Naturalists <http://www.amnat.org/> Linnean Society <http://www.linnean.org/> Human Behavior and Evolution Society <http://www.hbes.com/> Worldwide Net-

Evolution societies answers

Thank you all for your tremendous response to our request. The list below is by no means exhaustive. If you feel that your society is truly evolutionary but still not represented, please let me know.

cheers, graham

evolution societies: Society for the Study of Evolution <http://www.evolutionarysociety.org/> Society for Molecular Biology and Evolution <http://www.smbe.org/> Canadian Society for Ecology and Evolution <http://www.ecoevo.ca/en/index.htm> European Society for Evolutionary Biology <http://www.esbe.org/> Sociedad Española de Biología Evolutiva <http://www.sesbe.org/> Association pour l'Etude de l'Evolution Biologique <http://www.up.univ-mrs.fr/aeeb/> Societa' Italiana di Biologia Evoluzionistica <http://www.sibe-iseb.it/> International Organization of Systematic and Evolutionary Biology <http://www.icseb-vi.biology.upatras.gr/> Australasian Evolution Society <http://www.evolutionau.org> also evolutionary in nature: American Society of

Naturalists <http://www.amnat.org/> Genetics Society <http://www.genetics.org.uk/> Linnean Society <http://www.linnean.org/> Ecological Genetics Group <http://www.britishecologicalsociety.org/articles/-groups/genetics/> Human Behavior and Evolution Society <http://www.hbes.com/> Society for Integrative and Comparative Biology <http://www.sicb.org> International Society for Evolutionary Protistology <http://www.bch.umontreal.ca/isep/> National Center for Science Education <http://ncseweb.org> Worldwide Network for Evolutionary Biology <http://evonet.sdsc.edu/> primarily geology: Paleontological Society <http://www.paleosoc.org/> Society of Vertebrate Paleontology <http://www.vertpaleo.org> Geological Society of America <http://www.geosociety.org/> Paläontologische Gesellschaft <http://www.palaeontologische-gesellschaft.de/palges/> primarily systematics: Society of Systematic Biologists <http://systbiol.org/> Society of Systematic Botanists <http://www.sysbot.org/> Systematics Association <http://www.systass.org/> Société Française de Systématique <http://lis.snv.jussieu.fr/sfs/> Swiss Systematics Society <http://www.swiss-systematics.ch/> Gesellschaft für Biologische Systematik <http://www.gfbs-home.de/> Polish Taxonomical Society <http://www.biol.uni.wroc.pl/-cassidae/pttaxtitle.html> Systematics Association of NZ <http://www.math.canterbury.ac.nz/bio/-SYSTANZ/contactus.html> South African Society for Systematic Biology (web page??) Society of Australian Systematic Botanists <http://www.sasb.org.au/> Bay Area Biosystematists <http://www.biosystematists.org> Willi Hennig Society <http://www.cladistics.org/> -

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<http://www.otago.ac.nz/Zoology/staff/academic/-wallis.html> Assoc Ed, Molecular Ecology <http://www.blackwellpublishing.com/journals/mec> Vice-President, Society for the Study of Evolution

EvolutionaryBiol NewJournal

Springer is proud to announce that the critically acclaimed book serial, Evolutionary Biology which was originally founded by Theodosious Dobzhansky, has

been transformed into a journal! Evolutionary Biology, the journal, will launch in March of 2007.

Submission to Evolutionary Biology is possible through Editorial Manager, our fully web-enabled manuscript submission and review system. Editorial Manager offers authors the option to track the progress of their manuscripts through the review process in real time.

Manuscripts should be submitted to: <http://EVOL.edmgr.com> For full instructions to authors, please visit the Journal's home page at: <http://www.springer.com/11692> Please let me know if you have any questions.

Best, Lisa

Lisa Tenaglia Editorial Assistant Springer 233 Spring Street, 7th Floor New York, NY 10013

212.620.8438 phone 212.463.0742 fax

lisa.tenaglia@springer.com www.springer.com

Hymenopterist Society

Hi,

as the Archivist & Webmaster of the International Society of Hymenopterists, I wanted to let you know that I designed a completely new website for the Society. Please have a look at it: <http://www.hymenopterists.org/> We have exciting plans for the Society, for example adding an electronic version to our journal, the Journal of Hymenoptera Research. To implement our ideas, we need as much support as we can get. If you are interested in ants, bees, sawflies, or other wasps or if you simply believe that the entomological world should have a journal dedicated to research on Hymenoptera, please join the Society. Annual dues are low and include the journal.

You would be joining a lively community of more than 250 hymenopterists from around the globe. You can meet some of us on the website (<http://www.hymenopterists.org/members.html>) and in person at the Hymenoptera Symposium at the ESA conference in Indiana in about a month.

I hope we will be able to welcome you soon,

Susanne (archivist@hymenopterists.org)

Susanne Schulmeister American Museum of Natural

History, postdoctoral fellow International Society of Hymenopterists, Archivist & Webmaster

susanne71_2000@yahoo.de

Inexpensive DNA sequencing

Hi All, I am preparing to sequence a few thousand PCR products. I am looking for a company/university that will do this sequencing quickly, accurately, and, most importantly, cheaply. I would be grateful to hear any suggestions on companies (national or international) that people have used in the past for this kind of moderate throughput sequencing.

-Thanks much Mike Goodisman

Michael A D Goodisman

Assistant Professor School of Biology Georgia Institute of Technology Cherry Emerson Bldg A110 310 Ferst Drive Atlanta, GA 30332-0230 United States

webpage: <http://www.biology.gatech.edu/faculty/michael-goodisman/> profile: <http://www.whistle.gatech.edu/archives/04-nov/08/spot.shtml> spotlight: <http://www.gatech.edu/profiles/goodisman.php> email: michael.goodisman@biology.gatech.edu office: 404-385-6311 lab: 404-385-6312 fax: 404-894-0519

michael.goodisman@biology.gatech.edu
michael.goodisman@biology.gatech.edu

Info on GrantWriting Workshops

Our department is interested in the availability of Grant Writing workshops, seminars, etc. that are specifically designed for people submitting proposals to agencies that fund evolutionary and ecological research like the National Science Foundation. We are aware of programs like "The Grant Institute" <<http://www.thegrantinstitute.com/>> and "Grant Writers' Seminars & Workshops LLC" <<http://www.grantcentral.com/>>, but are not sure if these programs (or others like them) are useful in our fields and for our target funding agencies. If anyone has had any experience with such workshops we would appreciate

any feedback on their utility. Suggestions for alternative workshops would also be welcome.

Please reply to Randy Small at <rsmall@utk.edu>

Randall Small Assoc. Professor & Assoc. Dept. Head Dept. of Ecology & Evolutionary Biology 442 Hesler Biology The University of Tennessee Knoxville TN 37996 USA

phone: 865-974-6207 fax: 865-974-6042 e-mail: rsmall@utk.edu <http://web.utk.edu/~rsmall> <http://eeb.bio.utk.edu/small.asp> rsmall@utk.edu rsmall@utk.edu

Intelligent thought

The following review appeared in the November 2006 issue of CHOICE.

44-1476 BL262 2006-42120 MARC Intelligent thought: science versus the intelligent design movement, ed. by John Brockman. Vintage Books, 2006. 256p ISBN 0307277224 pbk, \$14.00

eehazard@paulbunyan.net eehazard@paulbunyan.net

Isopod ITS2 primers

I am looking for a primer set for the ITS2 gene in isopods (crustacea), any suggestions?

Stefanos Martimianakis PhD Student University of Patras

????????????? ???????? <stmartim@upatras.gr>

Mean Patristic distance

Dear colleagues,

Does anyone know of a relatively simple way to compute mean patristic distances among sample localities (for use in matrix correspondence tests) when haplotypes from distinct lineages/clades are shared between

localities?

Failing this, can anyone suggest a suitable statistic to use as a proxy for the mean patristic distance among sample localities?

Thanks

Paul

pbloor@gmail.com

Anyone have any ideas on how to get the data?

Thanks for any leads.”

-Colin

Department of Biology, Swarthmore College 500 College Avenue, Swarthmore, PA 19081 tel. (610) 328-8621; fax (610) 328-8663 <http://www.swarthmore.edu/NatSci/cpurrin1/index.html>

Colin Purrington <cpurrin1@swarthmore.edu>

Microsat program help

Dear all,

I've been trying (and failing) to get the MICROSAT program, for calculating distances from microsatellite data working on my PC.

I've downloaded all the associated files from the website onto windows XP, run the .exe file and altered the options/preferences in the DOS window but then can't get it to execute my input files (even the test data included with the program) !

Any help would be greatly appreciated!

Andrew

Andrew Mark Griffiths Hatherly Laboratories University of Exeter Prince of Wales Rd. Exeter EX4 4PS

Tel: +44 1392 263753 Fax: +44 1392 263700

Andrew.M.Griffiths@exeter.ac.uk

Andrew.M.Griffiths@exeter.ac.uk

Morality and Evolution

“A common theme in anti-evolution writings is that teaching kids about Darwin will cause them to lose all touch with morality, and will end up committing crimes. It might follow that evolutionary biologists themselves would be especially overrepresented in the criminal justice system. Therefore, I'd like to make a bar graph that shows the number of individuals with PhDs in evolutionary biology who are currently in prison. A possible control group to eliminate educational level might be "PhDs in theology" in prison (e.g., Kent Hovind).

NonWestern History of Evolution

Dear Evoldir, I am about to teach an introductory course in evolution. In preparing a lecture on the history of evolution, I have become acutely aware of the lack of discussion about other cultures' perception of evolution. Obviously, domestication of animals and plants suggests at least a rudimentary understanding of the process. But, in the texts I have found, even Pre-Darwinian history discusses only a Western perspective of speciation.

Does anyone know of literature discussing a non-Western understanding of evolution? Please reply to campbell.633@osu.edu THANK YOU for any ideas you might have! Lesley.

campbell.633@osu.edu campbell.633@osu.edu

NonWestern History of Evolution 2

Here is an unformatted version of the previous message - apparently the previous version was quite a mess. Sorry about that!

BEST, Lesley

Literature found: 1. Christidou V, Hatzinikita V. 2006. Preschool Children's Explanations of Plant Growth and Rain Formation: A Comparative Analysis. *Research in Science Education* 36: 187-210. 2. Maziak, W. 2005. Science in the Arab World: Vision of Glories Beyond. *Science* 308: 1416-1418. 3. Lazcano, A. 2005. Teaching Evolution in Mexico: Preaching to the Choir. *Science* 310: 787-789. 4. Gusfield JR. 2003. Contentious curricula: Afrocentrism and creationism in American public schools. *Contemporary sociology* 32: 508-509.

Suggestions received: Dr. Joseph L. Graves, Jr., Dean, University Studies & Professor of Biological Sciences, North Carolina A&T State University, 108A Hines Hall, 1601 E. Market St., Greensboro, NC 27411, email: gravesjl@ncat.edu; phone: (336)-285-2060; mobile: (336)-707-1556 I don't think you are going to find evidence of pre-20th century, evolutionary thinking as a whole outside of Western Europe. You may be able to focus your discussion on particular aspects of the Darwinian syllogism (such as variation, heredity, and struggle for existence) or the species concept. For example, Ernest Mayer in *The Growth of Biological Thought*, Harvard University Press 1982 discusses how his identification of bird species in Papua New Guinea differed from the native people by only one species. His explanation for his was that they were unaware of the interbreeding of two of their species, which differed slightly by habitat and morphology. You might be able to find information on how non-Western cultures viewed the idea of the species. I often use the Biblical references in Genesis, chapter 1:11 states: "seed bearing plants and trees on the land that bear fruit with seed in it, according to their varying kinds." Indigenous Western African notions of kinds are based in animism and speak more to spiritual entities as opposed to material beings (e.g. Mbiti, J., *African Religions and Philosophy* 2nd Ed., Heineman, 1969 & Hountondji, P.J., *African Philosophy: Myth & Reality*, Indiana University Press, 1983.) You might also find some interesting material by examining how different cultures developed their ideas on human variation. I discuss some of this in Graves, J.L., *The Race Myth: Why We Pretend Race Exists in America*, Dutton 2005. Also in a piece I wrote for Tapestry Press, I discuss Chinese folk notions of human ancestry, Graves, J.L., *The meaning of race in the African American Experience*, in *Africana Legacy: Diasporic Studies in the Americas*, 2006. I also just thought of some other books that can give you some direction in your quest.

-Lindberg, C., *The Beginnings of Western Science: The European Scientific Tradition in Philosophical, Religious, and Institutional Context, 600 BC to 1450*, University of Chicago Press, 1992 – has chapters on the origins of science, ancient Egyptians, and Islamic science.

-Moore, J., *Science as a Way of Knowing: The Foundations of Modern Biology*, Harvard University Press, 1993 – chapters on the antecedents of scientific thought, also Mesopotamia and Babylon.

-Bucaille, M., *The Bible, the Qur'an and Science: The Holy Scriptures Examined in the Light of Modern Science*, 1981 – originally published in Arabic, good comparison of Christian, Jewish, and Islamic views of his-

tory and science, contrasted to modern scientific views of same.

Also, looking at your email address I am assuming your are at Ohio State. If my assumption is correct, you will need to give some thought to how you teach evolutionary ideas to African American students. By necessity this has been an interest of mine (as the first African American evolutionary biologist in US history.) One of the challenges you will confront is Afrocentrism. I have written some on this see:

-Graves, J.L. (1993) *Evolutionary biology and human variation: Biological determinism and the mythology of race*. *Race Relations Abstracts* 18(3):4-34. Sage Publishers.

William J. Etges wetges@uark.edu I think there is some good information in Coyne and Orr's (2004) *Speciation* on how non-scientists view species. There are references about this as well.

Mark Ragan FLS, m.ragan@imb.uq.edu.au, Professor and Head, Division of Genomics & Computational Biology, The Institute for Molecular Bioscience, Professor, School of Information Technology & Electrical Engineering, The University of Queensland. Although I'm not a professional historian of science, history of science (and before that, history of natural history) is a serious avocation of mine and I've spent some 20 years pursuing some ideas back into early history, including non-Western traditions. I believe I'm conversant with the standard history-of-science literature. In my opinion it's possible to trace threads of evolutionary thought back to the Middle

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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>

NonWestern History of Evolution answers

Dear Evoldir, Thanks to everyone (9 people) who forwarded their literature sources and insights on Non-Western history and perspectives of evolution. I have included their responses below and several mss. I found after reading their responses. Additionally, I received many more requests (16) from people who were interested in the topic but had yet to find literature dealing

with the topic. Again, thank you for your help. Now, I am quite excited about preparing and presenting this lecture. Have a wonderful day,

Lesley Campbell. Department of Evolution, Ecology, and Organismal Biology Ohio State University, Columbus, OH, 43210

Literature found: 1. Christidou V, Hatzinikita V. 2006. Preschool Children's Explanations of Plant Growth and Rain Formation: A Comparative Analysis. *Research in Science Education* 36: 187-210. 2. Maziak, W. 2005. Science in the Arab World: Vision of Glories Beyond. *Science* 308: 1416-1418. 3. Lazcano, A. 2005. Teaching Evolution in Mexico: Preaching to the Choir. *Science* 310: 787-789. 4. Gusfield JR. 2003. Contentious curricula: Afrocentrism and creationism in American public schools. *Contemporary sociology* 32: 508-509.

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I don't think you are going to find evidence of pre-20th century, evolutionary thinking as a whole outside of Western Europe. You may be able to focus your discussion on particular aspects of the Darwinian syllogism (such as variation, heredity, and struggle for existence) or the species concept. For example, Ernest Mayer in *The Growth of Biological Thought*, Harvard University Press 1982 discusses how his identification of bird species in Papua New Guinea differed from the native people by only one species. His explanation for his was that they were unaware of the interbreeding of two of their species, which differed slightly by habitat and morphology. You might be able to find information on how non-Western cultures viewed the idea of the species. I often use the Biblical references in Genesis, chapter 1:11 states: "seed bearing plants and trees on the land that bear fruit with seed in it, according to their varying kinds." Indigenous Western African notions of kinds are based in animism and speak more to spiritual entities as opposed to material beings (e.g. Mbiti, J., *African Religions and Philosophy* 2nd Ed., Heineman, 1969 & Hountondji, P.J., *African Philosophy: Myth & Reality*, Indiana University Press, 1983.) You might also find some interesting material by examining how different cultures developed their ideas on human variation. I discuss some of this in Graves, J.L., *The Race Myth: Why We Pretend Race Exists in America*, Dutton 2005. Also in a piece I wrote for Tapestry Press, I discuss Chinese folk notions of human ancestry, Graves, J.L., *The meaning of race in*

the African American Experience, in *Africana Legacy: Diasporic Studies in the Americas*, 2006. I also just thought of some other books that can give you some direction in your quest. -Lindberg, C., *The Beginnings of Western Science: The European Scientific Tradition in Philosophical, Religious, and Institutional Context, 600 BC to 1450*, University of Chicago Press, 1992 – has chapters on the origins of science, ancient Egyptians, and Islamic science. -Moore, J., *Science as a Way of Knowing: The Foundations of Modern Biology*, Harvard University Press, 1993 – chapters on the antecedents of scientific thought, also Mesopotamia and Babylon. -Bucaille, M., *The Bible, the Qur'an and Science: The Holy Scriptures Examined in the Light of Modern Science*, 1981 – originally published in Arabic, good comparison of Christian, Jewish, and Islamic views of history and science, contrasted to modern scientific views of same. Also, looking at your email address I am assuming you are at Ohio State. If my assumption is correct, you will need to give some thought to how you teach evolutionary ideas to African American students. By necessity this has been an interest of mine (as the first African American evolutionary biologist in US history.) One of the challenges you will confront is Afrocentrism. I have written some on this see: -Graves, J.L. (1993) *Evolutionary biology and human variation: Biological determinism and the mythology of race*. *Race Relations Abstracts* 18(3):4-34. Sage Publishers.

William J. Etges wetges@uark.edu I think there is some good information in Coyne and Orr's (2004) *Speciation* on how non-scientists view species. There are references about this as well.

Mark Ragan FLS, m.ragan@imb.uq.edu.au, Professor and Head, Division of Genomics & Computational Biology, The Institute for Molecular Bioscience, Professor, School of Information Technology & Electrical Engineering, The University of Queensland.

— / —

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>

Omnibenificent reference

While looking up the earliest recorded use of the word omnibenificent I discovered (in the Encyclopedia Bri-

tannica?) the following quote:

An early use of omnibenevolent is by William Penn, the leader of the Quakers who founded Pennsylvania. In 1679 he said What an omniscient and omnipotent God did know and could do for mans salvation, an omnibenevolent God would certainly have done.

Can anyone inform of the reference for this? Thanks a heap Walter

wfitch <wfitch@uci.edu>

Paternity Parentage programs

Dear all,

does anybody know how to work with the software FaMoz (Gerber et al. 2003) or GeneticStudio (Rodney Dyer)? I am running into a lot of trouble using them. Both accept my input files, but:

- The Twogener analysis in FaMoz gives only results for the normal distributions. All other distribution types crash my Computer.

- GenetiCstudio gives only the allele frequencies for my first to samples, the genetic diversity function closes the program

- The TwoGener function in GeneticStudio either works for the first two samples only, causes a run time error or closes the program

I am thankful for suggestions, help and ideas.

Regards, Andreas.

“A.Zipperle” <A.Zipperle@rug.nl>

Phyloinformatics journal demise

The Open Access web-only journal “Phyloinformatics” seems to have disappeared, with the Internet address <http://www.phyloinformatics.org> now up for sale. This means the articles have just disappeared!

There weren’t many papers published, but some were interesting and have been cited in the mainstream literature.

This also illustrates the problems with linking to digital

resources using URLs, as opposed to identifiers such as DOIs. With the loss of the domain name, this journal has effectively died.

A sobering lesson...

Regards

Rod

As a number of people have noted, most of the papers published in this journal can be recovered from the Internet Archive. Paul Sereno kindly sent me a PDF of his paper, so I’ve put all eight published papers online at the Systematic Biology web site. You can find them here: <http://systbio.org/?q=node/150>. There is also a link to them on the left of the site under the heading “Archive”.

Regards

Rod

Professor Roderic D. M. Page Editor, Systematic Biology DEEB, IBLS Graham Kerr Building University of Glasgow Glasgow G12 8QP United Kingdom

Phone: +44 141 330 4778 Fax: +44 141 330 2792 email: r.page@bio.gla.ac.uk web:

<http://taxonomy.zoology.gla.ac.uk/rod/rod.html>

iChat: aim://rodpage1962 reprints: [http://-](http://taxonomy.zoology.gla.ac.uk/rod/pubs.html)

taxonomy.zoology.gla.ac.uk/rod/pubs.html

r.page@bio.gla.ac.uk

Plant Material Transport

Dear all,

I’m planning a new trip to collect some extra material for my ongoing molecular study on cacti. Last time these fleshy samples (that can become thicker than 2 cm) were collected on the field and stored in a paper back without freezing. After a few days they were put in a metal suitcase and transported as cargo (a trip of 1.5 day). Hereafter they were put directly into a freezer at -20C. Most of the samples remained intact but transport costs were high because large samples (up to 20 X 15 cm) were collected to be sure green (not rotten) material reached our University.

Just to optimize this next field trip I was wondering whether there a better and/or cheaper way to transport these samples bearing in mind that I use microsatellites and they are extremely fleshy.

Best regards,

Philippe Helsen

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

philippe.helsen@ua.ac.be phone: xx-32-3-265.34.70 fax: xx-32-3-265.34.74

Purchasing PCR machines

Dear All,

I'm after a little advice on purchasing new equipment.

We wish to buy a couple of new PCR machines as lab workhorses for phylogeographical work, microsats, AFLPs etc. I'd appreciate any advice going on good machines to get considering the usual criteria of tight budget, reliability, durability and ease of use.

Many thanks,

Alistair Jump

—

Dr Alistair Jump

Environment Department University of York Heslington York YO10 5DD UK

Tel. 0044 1904 432999 Fax. 0044 1904 432998

<http://www.biogeo.org> <http://www.york.ac.uk/res/kite/> a.s.jump@creaf.uab.es

Sargassum muticum samples

Sargassum muticum samples

Dear colleagues: I have recently started my PhD research project at the University of Glamorgan in Wales, looking at the molecular ecology of the invasive alga *Sargassum muticum*, under the supervision of Drs. Georgina Harper and Tim Johnson. As part of my study I am looking to complete a global phylogeographical study of this species with a view to uncovering invasion routes, source populations and genetic diversity on invaded regions. I am therefore trying to get material from a wide range of worldwide locations including

its native range in the northwest Pacific (Japan, China and Korea). I would greatly appreciate if you have any samples - herbarium dried or preserved in EtOH - suitable for DNA analyses that you may be able to share with me: or if you may be able to collect some sample material and send it to me. Your help will allow analysing most of the worldwide population diversity, which would be a fantastic element for my PhD research work. If you do have samples to share or could collect some material and send it on, we could sort out a protocol for sending them to Glamorgan University and we would provide the cost of postage so that no cost is involved on your side. Thanks a lot for your help and please feel free to contact me with any questions you may have.

Kind regards, Paul Hallas

jphallas1980@yahoo.co.uk School of Applied Sciences, University of Glamorgan, Treforest, Pontypridd, CF37 1DL. 00 - 44 - (0)1443 482282

jphallas1980@yahoo.co.uk

Smithsonian internships

Internships: Available at the Smithsonian

Smithsonian Research Training Program

28 May 2007 - 6 August 2007

Application Deadline: 1 February 2007

The Research Training Program is a museum-based, in-residence program exclusively for currently enrolled, English proficient, college-level undergraduate students interested in a career in the biological, geological or anthropological sciences. Through a competitive review process approximately 20 outstanding students from around the world are selected each year to participate. Students partner with a Smithsonian scientist to investigate a natural history research topic as well as participate in a series of lectures, workshops, demonstrations, behind-the-scenes tours, and field trips that focused on exploring natural history science and developing the skills necessary to become effective researchers. Students, in collaboration with their Smithsonian research advisor, develop and test a scientific hypothesis and communicate the results through written manuscripts plus oral and poster presentations. Research is conducted in-residence at the Smithsonian's National Museum of Natural History in Washington, DC utilizing

the vast research facilities and collection of the Museum including 127 million natural history specimens.

Comments RTP '06 participant Sheena Ketchum: "The RTP lectures and tours provided me with a completely rounded and hands-on natural history education that is impossible to obtain anywhere else. Only here, and only through the RTP, over a course of ten weeks, could I have held a stone hand axe from Olduvai Gorge, touched a Mars meteorite, examined a 8,000 year-old skeleton from North America, played with a Clovis Point, worn a giant sapphire ring, held an atlatl, seen a coelacanth, picked up a piece of the world's mantle, seen specimens collected by historical figures such as: Theodore Roosevelt and Charles Darwin, had $\frac{3}{4}$ of a pound of gold thrown at me, ran my finger along the KT Boundary, smelled fossilized dung, seen the "Soap Man" and other mummies, examined Hopewellian beads made out of a meteorite, touched pieces of the Burgess Shale, seen countless type specimens, viewed the shrunken heads of the Jivaro, held a 4.56 billion-year-old meteorite, visited the rare books collection, seen a giant squid, experienced "museum time" first hand, as well as countless other experiences."

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

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

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

Mail to:

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

SANGREYM@si.edu

Software BAPS

Dear all,

The increasingly popular BAPS software for Bayesian analysis of genetic population structure is now also available for Mac OS X and Linux computers. The software is freely available at <http://www.rni.helsinki.fi/>

[~jic/bapspage.html](http://www.rni.helsinki.fi/~jic/bapspage.html).

Enjoy!

– Jukka Corander, PhD, Docent

Department of Mathematics and statistics P.O.Box 68
University of Helsinki FIN-0014 Helsinki, Finland

<http://www.rni.helsinki.fi/~jic/> Fax: +358 9 191 51400
Visiting address: Gustaf Hällströmin katu 2b, 3'rd floor, room B330

corander@mappi.helsinki.fi corander@mappi.helsinki.fi

Software BEAST v1 4

BEAST v1.4 2002-2006 Bayesian Evolutionary Analysis Sampling Trees by Alexei J. Drummond and Andrew Rambaut

Department of Computer Science University of Auckland alexei@cs.auckland.ac.nz

Institute of Evolutionary Biology University of Edinburgh a.rambaut@ed.ac.uk

BEAST is a cross-platform program for Bayesian MCMC analysis of molecular sequences. It is entirely orientated towards rooted, time-measured phylogenies inferred using strict or relaxed molecular clock models. It is not intended solely as a method of reconstructing phylogenies but also as a framework for testing evolutionary hypotheses without conditioning on a single tree topology. BEAST uses MCMC to average over tree space, so that each tree is weighted proportional to its posterior probability. We include a simple to use user-interface program for setting up standard analyses and a suit of programs for analysing the results.

BEAST v1.4 is available for download from here:

<<http://evolve.zoo.ox.ac.uk/beast/>> Our on-going efforts to provide useful documentation for BEAST is here:

<<http://evolve.zoo.ox.ac.uk/beast/help/>> BEAST is an extremely complex program and as such will inevitably have bugs. Please email us to discuss any problems:

<alexei@cs.auckland.ac.nz> - PLEASE NOTE THE NEW ADDRESS <a.rambaut@ed.ac.uk> - PLEASE NOTE THE NEW ADDRESS

We would encourage you to join the BEAST users' mailing-list to get notifications of updates and bugs. At

a later date this may be expanded to be a discussion-list so that users can exchange ideas and help. You can join the mailing list here:

<http://evolve.zoo.ox.ac.uk/mailman/listinfo/-beast_user/> Main New Features: Faster likelihood calculations after rejecting a state. Whilst the improvement in speed will vary, the indications are that this is a significant overall speed improvement.

Rates for relaxed clock models can be written embedded in the tree for later analysis.

BEAUti can now create TaxonSets and apply prior probability distributions to the tMRCA of these.

In version 1.2 of BEAUti we introduced the ability to save and load BEAUti documents in order to store all the settings and make changes later. Now in version 1.4 we have altered the how this works so that it is possible to save "Template Files" which contain all the selected settings but not the actual data. These templates can be used to create a library of standard models which can then be applied (by opening them) to other data sets. Additionally these templates can be used in a non-interactive way using the command-line to convert NEXUS files to BEAST files. This can be used as part of a script.

Additionally, two new programs are distributed as part of the BEAST package: LogCombiner & TreeAnnotator. LogCombiner can combine log or tree files from multiple runs of BEAST into a single combined results file (after removing appropriate burn-ins). TreeAnnotator can summarize a sample of trees from BEAST using a single target tree, annotating it with posterior probabilities, HPD node heights and rates. This tree can then be viewed in a new program called 'FigTree' which is available from:

<<http://evolve.zoo.ox.ac.uk/software/figtree>> Finally, we are pleased to announce that BEAST is now open source with the source code distributed under the GNU Lesser General Public License. The full source code can be browsed on the web or by anonymous SVN from here:

<<http://code.google.com/p/beast-mcmc/>> -

Andrew Rambaut Institute of Evolutionary Biology
University of Edinburgh Ashworth Laboratories Edinburgh
EH9 3JT EMAIL - a.rambaut@ed.ac.uk TEL -
+44 131 6508624

Software FigTree

FigTree v1.0 2006 Andrew Rambaut

FigTree is designed as a graphical viewer of phylogenetic trees and as a program for producing publication-ready figures. As with most of my programs, it was written for my own needs so may not be as polished and feature-complete as a commercial program.

This program is available from:

<<http://evolve.zoo.ox.ac.uk/software/figtree>> I have set up a Wiki page here which will be used to post documentation:

<<http://evolve.zoo.ox.ac.uk/beast/help/FigTree>>
Mac OS X, Linux/UNIX and Windows versions are available

FigTree requires a Java Virtual Machine to run. Many systems will already have this installed. It requires at least version 1.5 of Java to run (see README file for details).

Mac OS X version 10.4 or better (Tiger) will already have a suitable version of Java installed. I am sorry but FigTree simply doesn't run on older versions of Mac OS X.

Features

Cross-platform graphical tree display. Three different tree styles: rectangular, polar and radial. Display of node heights, branch lengths, support values and other annotations. Node height range bars if available. Collapse of clades into triangles. Colouring of branches and tip labels. Colouring by annotation (for example, support values). Quick search for tip labels or partial tip labels. Printing and export as PDF graphics.

At present there is no manual for using FigTree. I suggest you simply try playing with the various controls and buttons.

Please note that I have moved to the University of Edinburgh. All though my programs will continue to be hosted on the Oxford website, at some point they will move north too.

My new details are as follows:

Andrew Rambaut Institute of Evolutionary Biology
University of Edinburgh Ashworth Laboratories Edinburgh
EH9 3JT EMAIL - a.rambaut@ed.ac.uk TEL -

+44 131 6508624

Software GESTE GeneticStructure

Dear evoldir members,

We wish to introduce GESTE (GENetic STructure inference based on genetic and Environmental data), a Bayesian method to evaluate the effect that biotic and abiotic environmental factors (geographic distance, language, temperature, altitude, local population sizes, etc.) have on the genetic structure of populations. It can also be used to study spatial population processes, such as range expansions, by introducing longitude and latitude as the explanatory variables.

GESTE estimates F_{ST} values for each local population and relates them to environmental factors using a generalized linear model. The method requires genetic data from codominant markers (e.g. allozymes, microsatellites, or SNPs) and environmental data specific to each local population. The software is written in C++ and integrates a tool to draw posterior density functions (histogram, running mean, traces, etc.) and to estimate parameters from them (mean, mode, variance, HPDI etc.)

You can download it from

<http://www-leca.ujf-grenoble.fr/logiciels.htm> The program should be cited as follows:

Foll, M and O Gaggiotti. 2006. Identifying the environmental factors that determine the genetic structure of populations. *Genetics*, 174: 875891.

Questions concerning the use of the software should be addressed to Matthieu Foll (Matthieu.Foll@ujf-grenoble.fr)

Best regards,

Oscar Gaggiotti

– Oscar Gaggiotti

Equipe Genomique de Populations et Biodiversité
LECA UMR CNRS 5553 Université Joseph Fourier
BP 53 38041 GRENOBLE France Tel.: 33(0)4 76
51 41 15 Fax: 33(0)4 76 51 42 79 <http://www-leca.ujf-grenoble.fr/membres/gaggiotti.htm> <http://www-leca.ujf-grenoble.fr/projets/gaggiottiprojets/-IMPBioFr.htm>

Software IBDWS 3

Colleagues,

Isolation By Distance, Web Service (IBDWS) has now been updated to version 3.0.

IBDWS is a specialized package for isolation by distance analyses of codominant markers (e.g., microsatellites, allozymes) or DNA sequence data. Users may also enter genetic distance matrices calculated from any other program.

Recent changes include: 1. IBDWS is now hosted at <http://ibdws.sdsu.edu/> This server should have less down time than the previous host. 2. DNA sequence data may be uploaded in FASTA format. Several models of evolution are available. A complete set of options for dealing with gaps and missing data are presented. 3. The Mantel test results are presented with improved clarity and precision. 4. As of version 2.6, you may bookmark the results page for large analyses that take a significant amount of time to run, and return to check on them later.

We are currently working on speed optimizations and hope to implement those soon.

Andrew Bohonak –

Andrew J. Bohonak

Assistant Professor San Diego State University Department of Biology 5500 Campanile Drive San Diego, CA 92182-4614

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bohonak@sciences.sdsu.edu
bohonak@sciences.sdsu.edu

bo-

Software JMATING

Dear evoldir members:

We wish to announce that the software JMATING has been UPDATED to the version 1.0.8 (November 2006).

This software is able to do a battery of analyses to study sexual isolation and sexual selection effects from mating frequency data. The program has a friendly user windows interface and it is implemented in Java (works in both PC and MAC).

The NEW feature provided in this version is the possibility to estimate a sexual isolation ASYMMETRY index and calculate a probability of rejecting the null hypothesis (no asymmetry) being true, by bootstrapping

The software and instructions are available from

<http://webs.uvigo.es/c03/webc03/XENETICA/XB2/-JMsoft.htm> Further details and references related to this software and these topics can be found in the related paper “Antonio Carvajal-Rodríguez and Emilio Rolán-Alvarez 2006. JMATING: a software for detailed analysis of sexual selection and sexual isolation effects from mating frequency data. BMC Evolutionary Biology 6: 40” available in the former web page

Antonio Carvajal-Rodríguez (acraaj@uvigo.es) and Emilio Rolán-Alvarez Departamento de Bioquímica, Genética e Inmunología Universidade de Vigo Spain

acraaj@uvigo.es

Triple hybrids

Dear colleagues,

does anyone know citations referring to molecular evidence for hybrids involving three or more species in plants or animals? I am only interested in primary hybrids, i.e., not in ancient allopolyploids or taxa of historical hybrid origin. Thanks!

Judith

Dr. Judith Fehrer Institute of Botany CZ-25243 Pruhonice

phone +420 2 71015415 fax +420 2 67750031 email: fehrer@ibot.cas.cz

Judith Fehrer <fehrer@ibot.cas.cz>

UK creationism

I’m a Marine Biologist based in the UK. A while ago, I wrote to my MP (Gary Streeter, Con, Devon South West) asking him to support something called an Early Day Motion (number 2708) condemning an organization called Truth in Science, which peddles creationist stuff to UK schools. He replied that:

“I would be very happy to act on this matter as soon as you can prove beyond all reasonable doubt that Creationism is not true, and I look forward to hearing from you as soon as possible.”

To save the length of this email, I’ve posted the initial correspondence on my blog at <http://postbloggery.blogspot.com/2006/11/politicking.html> <<http://postbloggery.blogspot.com/2006/11/politicking.html>> and my final reply at <http://postbloggery.blogspot.com/2006/11/democracy-in-action.html> <<http://postbloggery.blogspot.com/2006/11/democracy-in-action.html>>

Gary Streeter then replied to my reply with a scientifically wobbly letter, which I’m chasing up with a couple of newspapers and which I’ve posted at <http://postbloggery.blogspot.com/2006/11/my-id-mp.html> <<http://postbloggery.blogspot.com/2006/11/my-id-mp.html>>

Please feel free to use any of the material in any way you feel like, if you’re interested!

All the best,

John Bothwell (ideally credited as “postblogger”, if poss.!) Marine Biological Association of the UK, The Laboratory, Citadel Hill, Plymouth, PL1 2PB

John Bothwell <jhbot@MBA.ac.uk>

mtDNA sample size

Dear all,

I have a dataset of mtDNA sequences from circa 30 different populations, with generally 10 to 12 sequences per population. However, from four selected populations I have 24 to 48 sequences. How (and with which software package) can I correct for sample size, e.g. for calculating gene/haplotype diversity, N of polymorphic sites per population, mean N of pairwise differences, nucleotide diversity, etc... ?

Many thanks, Dieter

– Dieter Anseeuw Katholieke Universiteit Leuven

Campus Kortrijk Subfaculteit Wetenschappen Etienne
Sabbelaan 53 B-8500 Kortrijk Belgium

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+32.(0)56.24.69.99 <http://www.kuleuven-kortrijk.be/~danseeuw> Disclaimer: http://www.kuleuven.be/~cwis/email_disclaimer.htm Dieter.Anseeuw@kuleuven-kortrijk.be

mtDNA sample size answers

Dear all,

Apparently, several colleagues cope with the question how one can correct for sample sizes, when analysing mtDNA sequence data.

At best, one uses a diversity index which is insensitive to sample size off course, but nevertheless, it would be nice to be able to define a measure for haplotype diversity, No of polymorphic sites, etc. when you have a dataset with unequal sample sizes among the populations/groups.

Below, I post the answers I received thus far. If you are developing a package that can handle this problem, please keep us informed.

Thanks to everybody, Dieter Anseeuw.

Dieter, The HP-Rare software might be useful for performing rarefaction on haplotypes diversity. The program uses the Genepop format for input files, but you could code the genotypes as having a missing allele.

Steven Kalinowski

Hello Dieter. I am working on such a program, but it will not be ready until the new year. I am unaware of any programs that can do these calculations. If you receive some responses referring to existing programs I'd like to know, as I will be able to save myself a lot of time.

Joseph W. Brown

Hey Dieter, a common procedure we use to correct for non sampling errors is solving the Cornuet and Aries algorithm: - Cornuet JM, Aries F (1980) Number of sex alleles in a sample of honeybee colonies. *Apidologie*, 11: 87-93.

Rodolfo Jaffé R.

- Dieter Anseeuw Katholieke Universiteit Leuven
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Cologne PlantGeneRegulation

Postdoc: Evolution of plant gene regulation in Cologne, Germany

A Postdoc position is available at the Max Planck Institute for Plant Breeding Research in Cologne, Germany, to join Juliette de Meaux'lab, in the department of Genetics and Plant Breeding.

Our research group is interested in evaluating the role played by cis-regulatory DNA 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. The successful applicant will be encouraged to develop her/his own research project within this framework. Evolutionary geneticists interested in evolutionary transcriptomics and/or population genetics of non-coding DNA are especially encouraged to apply.

The Max Planck Institute offers an outstanding environment for carrying out ambitious and innovative research. Our research group exists since September 2005. It belongs to the Department of Genetics and Plant Breeding, which 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 International 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.mpiz-koeln.mpg.de/english/research/koornneefGroup/-demeaux/index.html>. Review of applications will begin immediately and continue until the position is filled. Please provide a cover letter (detailing your research achievements, goals and motivation for joining our group) as well as a curriculum vitae and contact information for three 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. The position is funded by a fellowship of the Max Planck Society for up to three years. Starting date is flexible. For our most recent publication, check doi: 10.1534/genetics.106.064543.

demeaux@mpiz-koeln.mpg.de

demeaux@mpiz-koeln.mpg.de

DukeU EvolSystemsBiology

Postdoctoral Position in Evolutionary Systems Biology

A two year postdoctoral position is available in the Department of Biology at Duke University and the newly formed Duke Center for Systems Biology.

We seek a highly motivated postdoctoral research associate who has a strong background in statistical and computational methods. The successful candidate will help to develop quantitative models of regulatory networks underlying complex traits in yeast and develop new approaches for modeling variation in such networks. The person who fills this position will also participate in a Howard Hughes Medical Institute funded initiative to develop quantitative laboratory materials for an undergraduate biology course.

To apply for this position please send a cover letter, CV and the names and contact information for three references to: Dr. Paul Magwene at paul.magwene@duke.edu. You may also send this information via post to: Paul Magwene, Department of Biology, Duke University, P.O. Box 91000, Durham, NC 27708.

paul.magwene@duke.edu

ESF ThermalAdaptation

We are launching a new ESF Programme on Thermal adaptation in ectotherms: Linking life history, physiology, behaviour and genetics (ThermAdapt). Information, particularly a summary of the scope of the programme, is now available at http://www.esf.org/esf_article.php?language=0&activity=1&domain=3&articlea0&page04.

The Objective of this ESF Programme is to foster a multidisciplinary European network of scientists working on thermal adaptation. We particularly aim to integrate research at multiple levels of investigation, including genetics, physiology, ecology, behaviour or theory. Interested persons or groups are encouraged to join our activities. These include advertising their expertise via our web site, and participation in various activities to be announced separately and regularly over the next 5 years such as workshops, training courses, short and long exchange grants, exchange of specimens and expertise, sharing of facilities, and scientific collaboration of any kind.

We here start with a Call for Applications for a number of

Short Visits (≤ 15 days) and Exchange Grants (from 15 days to 3 months)

broadly related to the scientific objectives of the Programme (deadline 15 February 2007). Short Visits may serve for planning collaborative research projects, brief data gathering or data analysis; the longer-term Exchange Grants typically involve planning and execution of a larger collaborative research project (see <http://www.esf.org/generic/1817/-Annex5GuidelinesforGrants.pdf> for application guidelines and forms; under special circumstances stays longer than 3 months may be possible).

Similar calls are planned to occur repeatedly over the next 5 years. We advise applicants to contact potential labs of interest early to jointly prepare the application. Grant applications will be chosen by the Steering Committee based on scientific quality, and priority will be given to applicants who come from or intend to visit countries supporting the programme (Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Hungary, Netherlands, Portugal, Slovenia,

Spain, Switzerland), but other European nations can be involved.

If you wish to be included in the ThermAdapt e-mail list to receive regular updates on Programme activities, please send an email to srenay@esf.org.

For further inquiries contact:

Sarah Renay (ESF office liaison; Email: srenay@esf.org)
 Wolf Blanckenhorn (chair; Email: wolf.blanckenhorn@zoolmus.unizh.ch)
 Mauro Santos (co-chair; Email: mauro.santos@uab.es)

Send applications, best by e-mail, to:

Dr. Wolf Blanckenhorn Zoological Museum, University of Zurich-Irchel Winterthurerstrasse 190 CH-8057 Zurich Phone: +41 44 635.47.55 Fax: +41 44 635.47.80 e-mail: wolfman@zoolmus.unizh.ch http://www.unizh.ch/-zoolmus/zmneu/englisch/forschung_e/blanckenhorn_wolf_e.html http://www.esf.org/esf_article.php?language=0&articlea0&domain=3&activity=1

wolfman@zoolmus.unizh.ch

wolfman@zoolmus.unizh.ch

GeorgiaTech EvolofInfectiousDiseases

Mathematical ecology, mathematical modeling of infectious diseases Georgia Tech

I have funding for a three-year postdoctoral position, beginning August 2007, in the field of Applied Dynamical Systems. Special consideration will be given to applicants working in mathematical ecology, mathematical modeling of infectious diseases, and/or dynamical systems on networks. The teaching load will be one course per semester.

Georgia Tech's Mathematics department, with its strong group in Dynamical Systems, and new Program in Mathematical Biology and Ecology, offers a rich and stimulating research environment for young researchers. Georgia Tech's Biology department has strong research groups in Ecology and Bioinformatics, and is quickly becoming a major player in Integrative Systems Biology. The postdoc will interact with researchers from across the campus and the Atlanta area, including the CDC, Emory University, and Georgia State University.

Applicants should send application materials to appdynpostdoc@math.gatech.edu. Please send a

curriculum vita, a two-page research summary, and arrange for four letters of reference to be sent as soon as possible. All applications must be submitted electronically.

Applications will be reviewed starting from Dec. 1, 2006; however, all applications will be given consideration until the available position is filled.

Georgia Tech, an institution of the University System of Georgia, is an Equal Opportunity/Affirmative Action Employer.

Dr. Howard (Howie) Weiss Professor of Mathematics 133 Skiles Building Department of Mathematics Georgia Institute of Technology Atlanta, GA 30332

Office Phone 404 385 2134 (with voice mail) Department Phone 404 894 2700 eFax 509 692 4516 URL <http://www.math.gatech.edu/~weiss> Dr. Howard (Howie) Weiss Professor of Mathematics 133 Skiles Building Department of Mathematics Georgia Institute of Technology Atlanta, GA 30332

Office Phone 404 385 2134 (with voice mail) Department Phone 404 894 2700 eFax 509 692 4516 URL <http://www.math.gatech.edu/~weiss> Howie Weiss <weiss@math.gatech.edu>

GhentU CompSystemsBiol

Postdoctoral and PhD position - Ghent University (Belgium)

The Research Group Bioinformatics and Evolutionary Genomics of the Department of Plant Systems Biology at Ghent University (Belgium) is currently looking for exceptional candidates to fill one postdoctoral and one PhD position.

The research will focus on computational systems biology, primarily through the modeling and analysis of biological networks, and is part of a newly founded interdisciplinary research initiative on top down systems biology, involving partners at 3 Flemish universities.

The ideal candidate will have a background in bioinformatics with a preference for algorithms and statistics, or a background in mathematics, physics, engineering or computer science with a strong interest in biological applications, and have sufficient programming experience in Matlab, Java, C++ or similar languages. Applicants must have an advanced knowledge of English, which is the language used for all departmental

communications.

Interested candidates should send a curriculum vitae including list of publications, a motivation letter and the names of three referees by email to Prof. Yves Van de Peer ().

The Bioinformatics and Evolutionary Genomics group is a young and dynamic research group of about 25 people carrying out research on the structure and evolution of genes, gene families, genomes and genetic networks. The Department of Plant Systems Biology belongs to the Flanders Interuniversity Institute for Biotechnology and Ghent University, and is located in Ghent (Flanders, Belgium), a beautiful and welcoming city of 230,000 inhabitants, with a large student population and a dynamic cultural scene. It is only 30 minutes from Brussels and about two hours from Amsterdam, London and Paris.

Websites for more information:

<http://bioinformatics.psb.ugent.be/> <http://www.psb.ugent.be/> <http://www.vib.be/> <http://www.ugent.be/> <http://www.visitgent.be/> – Yves Van de Peer, PhD.

Professor in Bioinformatics and Genome Biology Department of Plant Systems Biology Ghent University Technologiepark 927 B-9052 Ghent Belgium

Phone: +32 (0)9 331 3807 Cell Phone: +32 (0)476 560 091 Fax: +32 (0)9 331 3809 email: yves.vandeppeer@psb.ugent.be

<http://www.psb.ugent.be/bioinformatics/> Yves Van de Peer <yves.vandeppeer@psb.ugent.be>

GhentU SystemsBiol

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The research will focus on computational systems biology, primarily through the modeling and analysis of biological networks, and is part of a newly founded interdisciplinary research initiative on top down systems biology, involving partners at 3 Flemish universities.

The ideal candidate will have a background in bioinformatics with a preference for algorithms and statistics, or a background in mathematics, physics, engineering or computer science with a strong interest in biological applications, and have sufficient programming experience in Matlab, Java, C++ or similar languages. Applicants must have an advanced knowledge of English, which is the language used for all departmental communications.

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Websites for more information:

<http://bioinformatics.psb.ugent.be/> <http://www.psb.ugent.be/> <http://www.vib.be/> <http://www.ugent.be/> <http://www.visitgent.be/> – Yves Van de Peer, PhD.

Professor in Bioinformatics and Genome Biology Department of Plant Systems Biology Ghent University Technologiepark 927 B-9052 Ghent Belgium

Phone: +32 (0)9 331 3807 Cell Phone: +32 (0)476 560 091 Fax: +32 (0)9 331 3809 email: yves.vandepeer@psb.ugent.be

<http://www.psb.ugent.be/bioinformatics/>
yves.vandepeer@psb.ugent.be

Montpellier NematodeBacteria Symbiosis

Postdoctoral position in the Institute for the Study of Evolution in Montpellier (France)

We seek a post-doctoral fellow for a ANR funded project on experimental evolution of the symbiosis be-

tween nematodes and bacteria. This is a full-time 18 months position that will open in February 2007. Salary is around 2100 euros/month.

Nematodes of the genus *Steinernema* are insect parasites. They infect insect larvae, reproduce in the larvae they killed and disperse in soil in the search of a new host to parasitize. These nematodes carry bacteria of the genus *Xenorhabdus* in their gut. They release these bacteria upon entering the insect larvae. Bacteria then multiply and it has been shown that they greatly contribute to killing the insect host. The presence of the bacteria therefore increases nematodes' success during the parasitic stage of their life cycle. Recent research has shown that bacteria are conversely costly to the nematode during the free stage of their life cycle: the mortality of dispersing nematodes increases with the number of bacteria they carry.

The candidate will join our research team to setup and run an experiment where environmental conditions are varied so that the cost and benefits of carrying bacteria are changed. The evolution of the number of bacteria nematodes carry will then be followed over time. The candidate will be assisted in his work by two half-time technicians and will work with a PhD student.

Please send a cv, names and contact information of three references. Only complete applications will be accepted. The complete description of the research project is available at http://kimura.univ-montp2.fr/~jbf/projet_evol_exp_2006.pdf Jean-Baptiste Ferdy <ferdy@univ-montp2.fr>

Norway AtlanticSalmonGenomics

PhD student or postdoctoral fellow at Cigene/Akvaforsk (Norway):

The candidate will be employed on a project aimed at investigating genetic interactions between wild- and farmed Atlantic salmon using genomic approaches. The project is a collaboration between Cigene/Akvaforsk and the Norwegian Institute for Nature Research (NINA). Applicants may have a background in genomics, population/molecular/quantitative genetics, biocomputing etc., but should have a basic understanding of (or interest in) both molecular and statistical genetics. The successful applicant will be employed by Akvaforsk, but will be integrated into the genomics group of Cigene. Period: 2007 - 2009 (3 years). The position will be for a Ph.D. student or a postdoc, de-

pending on the qualifications of the most suitable candidate. Salary approx. 48 000 / 60 000 US\$ a year for PhD student/postdoc. If interested, please email Thomas.Moen@akvaforsk.no. Deadline for applications 1st of December.

The Centre for Integrative Genetics (Cigene) is a multi-institutional research centre hosted by the Norwegian University of Life Science (www.umb.no). Cigene aims to contribute to a deep causal understanding of complex genetic characters in fish, plants and animals based on an integrative genetics approach. As a core facility under the Norwegian Functional Genomics Programme (FUGE), Cigene is also responsible for providing a national service for detection, typing and interpretation of SNPs (Single Nucleotide Polymorphisms), and for systems-oriented biology. See www.cigene.no for more information

Akvaforsk (Institute of Aquaculture Research AS) in Norway is one of the world's leading research institutions for aquaculture and has specialised in breeding and genetics, product quality and marine species. In addition, the Institute also conducts research related to fish health, environment and operational optimisation. AKVAFORSK's main office is located at Aas, at the Norwegian University of Life Sciences Campus. AKVAFORSK also has a land based research station at Sunndalsora and a marine station at Averoy on the west coast. Akvaforsk is a partner in Cigene - Centre of Integrative Genetics. See www.akvaforsk.com for more information.

Dr. Thomas Moen CIGENE/AKVAFORSK Norway

Thomas Moen <thomas.moen@akvaforsk.no>

Norway AtlanticSalmonGenomics 2

Position for PhD student or postdoc at Cigene/Akvaforsk (Norway):

The candidate will be employed on a project aimed at investigating genetic interactions between wild- and farmed Atlantic salmon using genomic approaches. The project is a collaboration between Cigene/Akvaforsk and the Norwegian Institute for Nature Research (NINA). Applicants may have a background in genomics, population/molecular/quantitative genetics, biocomputing etc., but should have a basic understanding of (or interest in) both molecular and statistical genetics. The successful applicant will be employed

by Akvaforsk, but will be integrated into the genomics group of Cigene. Period: 2007 - 2009 (3 years). The position will be for a Ph.D. student or a postdoc, depending on the qualifications of the most suitable candidate. Salary approx. 48 000 (60 000) US\$ a year for PhD student (postdoc). If interested, please email Thomas.Moen@akvaforsk.no or send application to Reidun Pettersen, AKVAFORSK, Postboks 5010, N-1432 Aas, Norway (please label the envelope "stilling ledig"). The application should include publications, grades and other relevant information (e.g. GRE, TOEFL tests). Deadline for application 1st of December.

The Centre for Integrative Genetics (Cigene) is a multi-institutional research centre hosted by the Norwegian University of Life Science (www.umb.no). Cigene aims to contribute to a deep causal understanding of complex genetic characters in fish, plants and animals based on an integrative genetics approach. As a core facility under the Norwegian Functional Genomics Programme (FUGE), Cigene is also responsible for providing a national service for detection, typing and interpretation of SNPs (Single Nucleotide Polymorphisms), and for systems-oriented biology. See www.cigene.no for more information

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Thomas Moen <thomas.moen@akvaforsk.no>

ParisU StatPopGenet

Postdoc opportunity in statistical Population Genetics-Paris University Trans-specific molecular polymorphism

A 3 years post-doctoral position is available in the Ecology laboratory downtown Paris, starting from January 2007, to work on trans-specific molecular polymor-

phism. The project aims at developing and applying coalescent related statistical methods to distinguish introgressions from common ancestral polymorphism or recurrent mutations when faced to shared polymorphism between closely related species. Extensions include detecting selection footprint associated with shared polymorphism. This collaborative project involves a network of French groups working on related issues on various biological systems (arabidopsis, drosophila, mouse, oaks, pearl millet...).

Participating faculty include: ML Cariou X Vekemans F. Depaulis A. Lambert T. Robert P. Boursot A. Kremer

Salary is 21 000/year (1750/month; including social security; free of tax).

The ideal candidate would be highly qualified and motivated with a PhD and some background in Theoretical Population Genetics/molecular evolution, statistics, computer science and some interest in application of theory to data. Contact application: send a CV, statement of research interest, and two recommendation letters to Frantz Depaulis (https://www-mail.biologie.ens.fr/src/compose.php?send_topaulis%40ens.fr>depaulis@ens.fr).

Applications should be received no later than December 1st to ensure full consideration.

For recent work in the area see e.g.:...

Baird, S. J., N. H. Barton, and A. M. Etheridge. 2003. The distribution of surviving blocks of an ancestral genome. *Theor Popul Biol* 64:451-471.

Cariou, M.L., Silvain, J.F., Daubin, V., Da Lage, J.L., Lachaise, D. 2001 Divergence between *Drosophila santomea* and allopatric or sympatric populations of *D. yakuba* using paralogous amylase genes and migration scenarios along the Cameroon volcanic line. *Mol Ecol* 10 : 649-660.

Charlesworth, B., C. Bartolome, and V. Noel. 2005. The detection of shared and ancestral polymorphisms. *Genet Res* 86:149-157.

Kliman, R. M., P. Andolfatto, J. A. Coyne, F. Depaulis, M. Kreitman, A. J. Berry, J. McCarter, J. Wakeley, and J. Hey. 2000. The population genetics of the origin and divergence of the *Drosophila simulans* complex species. *Genetics* 156:1913-1931.

Lexer, C., A. Kremer, and R.J. Petit 2006. Shared alleles in sympatric oaks: recurrent gene flow is a more parsimonious explanation than ancestral polymorphism. *Mol Ecol*

Machado, C. A., R.M. Kliman, J.A. Markert, and J.

Hey. 2002. Inferring the history of speciation from multilocus DNA sequence data: the case of *Drosophila pseudoobscura* and close relatives. *Mol Biol Evol* 19: 472-488.

Scotti-Saintagne C., S. Mariette, I. Porth, P.G. Goicoechea, T. Barreneche, C. Bodénès, K. Burg, and A. Kremer. 2004. Genome Scanning for Interspecific Differentiation Between Two Closely Related Oak Species [*Quercus robur* L. and *Q. petraea* (Matt.) Liebl.]. *Genetics* 168 : 1615-1626.

Frantz Depaulis

UMR 7625 - Fonctionnement et Evolution des Systèmes Ecologiques ENS 46, rue d'Ulm 75230 Paris Cedex 05 France

(M Censier Daubenton, Monge or Luxembourg) Phone: 33 (0)1 44 32 23 44 Fax: 33 (0)1 44 32 38 85

Don't dial the 1st 0 from abroad

depaulis@ens.fr

<http://www.biologie.ens.fr/ecologie/ecoevolution/-depaulis/index.eng.html>

PennStateU EvoDisease

Post doctoral scientist with an understanding and keen interest in trophic interactions, population dynamics, Parasitology and evolution are invited to apply for a research position working closely with Peter Hudson and a group of post-doctoral workers at the Center for Infectious Disease Dynamics (CIDDD) www.ciddd.psu.edu <<http://www.ciddd.psu.edu/>> at Penn State University, USA from January 2007, initially for one year, but with potential for extension to 3 or more years.

The candidate will be expected to work on parasite community interactions using existing field-data collated databases, (e.g. long time series of grouse, rodents and fish hosts and their parasite community), but also to develop their own field research project in the area of disease dynamics, parasitology, etc in tune with CIDDD's research themes <http://www.ciddd.psu.edu/research/-index.html>.

Desirable skills include:

- Strong analytical skills of long-term data sets
- Modeling skills
- Database management and team work
- Knowledge of experimental design
- Excellent field skills

The successful candidate will join a research group

consisting currently of several advanced research staff, post-docs, PhD and MSc-students. Research projects within CIDD have a strong emphasis on interdisciplinary collaboration and interactions with other CIDD researchers are strongly encouraged. Salaries will follow the schemes of Penn State University.

The proposed start date is January 2007. The closing date for applications is Dec 1st 2006. Candidates are asked to submit their CV including the names of 2 referees and a list of publications, plus a brief outline (maximum one page) of their research interests. Applications should be sent by email to:

Peter Hudson - pjh18@psu.edu

Peter Hudson Center for Infectious Disease Dynamics
208 Mueller Penn State University State College PA
16803, USA

sep18@psu.edu sep18@psu.edu

Portugal 2 DiseaseMathModels

Instituto Gulbenkian de Ciência Two Postdoctoral Researchers

A Marie Curie Excellence Team funded by the European Commission has been established to develop mathematical models for infectious diseases. The group, currently consisting of 12 researchers, intends to reinforce its modeling capacities through the recruitment of 2 postdoctoral researchers. The positions are for two years.

Successful candidates should hold a PhD, demonstrate experience in mathematical, computational, statistical modeling or data analysis in population biology, and potential to develop one of the following lines of research:

- 1) Integration of within-host mechanisms into epidemiological models;
- 2) Integration of demographic and geographic information into epidemiological models.

For further details about the group visit www.igc.gulbenkian.pt/sites/ggomes. Deadline for applications: December 20, 2006, or until positions are filled. The preferred starting date is April 1, 2007.

Applications, including research interests, CV, and two letters of reference should be sent to the contact below. Informal enquiries should be addressed to Gabriela

Gomes (ggomes@igc.gulbenkian.pt).

Contact: Paula Macedo, Instituto Gulbenkian de Ciência, Apartado 14, 2781-901 Oeiras, Portugal, Email: paulamacedo@igc.gulbenkian.pt, Tel: 351-214-464-601.

Thank you again, Beste compliments

Paula Macedo Theoretical Epidemiology Group Instituto Gulbenkian de Ciência Oeiras, Portugal Direct number: 351 214 464 601

Paula Macedo <paulamacedo@igc.gulbenkian.pt>

UBarcelona Chromosomal Rearrangements

Postdoctoral contract in Barcelona

We seek an enthusiastic and highly motivated person interested in carrying out research with the Group of Genomics, Bioinformatics and Evolution of the Universidad Autónoma de Barcelona (grant BFU2005-02237 funded by the Ministerio de Educación y Ciencia, Spain).

Our research group is interested in the causes and consequences of natural chromosomal rearrangements. The subject of postdoctoral work is the analysis of position effects of chromosomal rearrangements in *Drosophila*. We wish to determine what is the effect of natural inversions (fixed or polymorphic) upon the expression of those genes adjacent to the breakpoints, and whether this effect contributes to the adaptive value of the inversion. The following are some of the papers of our group related to this subject: Negre et al. 2005. *Genome Res.* 15: 692-700; Puig et al. 2004. *PNAS* 101: 9013-18; Casals et al. 2003. *MBE* 20: 674-685; Cáceres et al. 2001; *Genome Res.* 11:1353-64. Cáceres et al. 1999. *Science* 285: 415-418.

We will consider the candidate CV and will value previous experience with studies and techniques for the analysis of gene expression (RT-PCR, 3' and 5' RACE, real time PCR, in situ hybridization in embryos ...etc).

Period of the contract: January 2007-December 2009 (3 years).

Total annual salary: ~30.000 euros

Application deadline: November 30, 2006

Applications. Candidates should send their application

with CV and two names of researchers who know the candidate and can provide references (please include their e-mail address for contact) to

Dr. Alfredo Ruiz Gropo de Genómica, Bioinformática y Evolución Departamento de Genética y Microbiología Facultad de Biociencias Universidad Autónoma de Barcelona 08193 Bellaterra (Barcelona)

Tel. 93-581-2729 Fax. 93-581-2387 E-mail: Alfredo.Ruiz@uab.es

Alfredo Ruíz Panadero <Alfredo.Ruiz@uab.es>

UCaliforniaSanDiego EvolRecombination

Postdoctoral position: Evolutionary Genomics

A postdoctoral position is available in the lab of Doris Bachtrog at the University of California, San Diego. Research in the lab focuses on i) the evolutionary significance of sex and recombination, ii) the causes of Y-chromosome degeneration, iii) and the evolution of gene expression and dosage compensation. Interested applicants should have expertise in one of the following areas: molecular genetics/ functional genomics, evolutionary genetics/theoretical population genetics, comparative genomics/bioinformatics. For more detail on current research visit <http://www.biology.ucsd.edu/labs/bachtrog/>. UC San Diego has a large and highly interactive group in biology, bioinformatics, computer science and bioengineering with many faculty having active research programs in evolutionary genetics, bioinformatics and functional genomics. More information about these departments is available at <http://www-biology.ucsd.edu/>, <http://www-biology.ucsd.edu/>, [bioinformatics.ucsd.edu/](http://www-bioinformatics.ucsd.edu/), <http://www-cse.ucsd.edu/> and <http://www-cse.ucsd.edu/bioeng.ucsd.edu/>. The UCSD campus is located in beautiful La Jolla, just north of downtown San Diego, overlooking the Pacific ocean.

Interested applicants should send the following information (in pdf format) to dbachtrog@ucsd.edu: a CV, a brief statement of research interests, and names and contact information for three references. Applications will be reviewed as they are received and the position will remain open until filled. Informal inquires are also welcome!

Doris Bachtrog Assistant Professor, Division of Biological Sciences University of California, San Diego 9500

Gilman Drive, MC 0116 La Jolla, CA 92093

Doris Bachtrog <dbachtrog@ucsd.edu>

UChicago RegulatoryEvol

Applications are invited for a postdoctoral research associate position with Ilya Ruvinsky in the Department of Ecology & Evolution at the University of Chicago. Our research focus is on understanding the patterns and functional consequences of cis-regulatory and transcription factor evolution. We are particularly interested in candidates who emphasize computational approaches.

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

Candidates must have a Ph.D. in Genetics, Molecular or Evolutionary Biology or related field. The ideal candidate will be creative, energetic and have excellent communication skills. All candidates are expected to have a background or interest in molecular evolutionary genetics.

To apply, please submit applications (by e-mail to I. Ruvinsky), including (1) a CV, (2) brief statement of past accomplishments and PDFs of most relevant publications, (3) future research interests and (4) contact information of three referees. Review of applications will begin immediately and will continue until the position is filled.

Ilya Ruvinsky Department of Ecology & Evolution The University of Chicago e-mail - ruvinsky@uchicago.edu http://pondside.uchicago.edu/ecol-evol/faculty/ruvinsky_i.html Ilya Ruvinsky <ruvinsky@uchicago.edu>

UColorado EvolEntomology

Postdoctoral Research, Parasitoids and Caterpillar Diet

A postdoctoral position is available to conduct research

on the role of sequestered plant secondary metabolites in parasitoid-caterpillar interactions. This project is a collaboration of Bowers (University of Colorado), Dyer (Tulane University), and Gentry (Tulane University). It will address 2 general questions: 1) Are sequestered plant allelochemicals beneficial or detrimental to parasitoids? 2) Does the amount of chemical sequestered matter to parasitoids? Expertise in working with parasitoids (especially tachinids and braconids) and caterpillars and some knowledge of analytical chemistry are required. The successful candidate will be based in Boulder and will collaborate with the labs at both Tulane and CU Boulder, will help coordinate the planned experiments, and is expected and encouraged to develop independent research related to the main project.

Applicants should have a PhD degree in a relevant discipline, and research experience and knowledge of parasitoid biology (including maintaining a colony), insect ecology, and chemical ecology. Travel between Boulder and Tulane, as well as travel in the field are part of the position. The ability to work well with others, effective management skills, and the ability to communicate well are also required. For additional information please call or email Deane Bowers (deane.bowers@colorado.edu; (303) 492-5530)

The review of applications will begin January 1, 2007 and will continue until a suitable person is found. The starting date is March 15. The initial appointment will be for 1 year with continuation for a second year contingent on satisfactory performance. The starting salary will be approximately \$30,000. Health insurance and standard benefits are provided.

Applicants please send a curriculum vitae, a description of research interests, and the names, addresses, and phone numbers of three references to:

Deane Bowers Department of Ecology and Evolutionary Biology 334 UCB University of Colorado Boulder CO 80309

Online applications are also accepted. Please email to: deane.bowers@colorado.edu The University of Colorado is committed to diversity and equality in education and employment.

Deane Bowers, Professor and Curator Museum and Department of Ecology and Evolutionary Biology 334 UCB University of Colorado Boulder, CO 80309 USA phone: (303) 492-5530 FAX: (303) 492-8699

Deane Bowers <Deane.Bowers@colorado.edu>

UGuelph SalmonGenetics

A postdoctoral position is currently available in the laboratory of Drs. Roy G. Danzmann and Moira M. Ferguson in the Department of Integrative Biology at the University of Guelph. The position will involve both independent research and research managerial responsibilities to help oversee ongoing graduate student projects.

Independent research will focus on the continued development and characterization of type I genetic markers related to traits of evolutionary and economic significance in salmonid fishes (i.e., growth, developmental rate, age of maturation, seasonal spawning time, stress tolerance). The research group has ongoing research projects directed at understanding the genetic architecture of important traits in salmonid fishes and establishing the underlying level of genomic duplications that exist for genes regulating these traits. Most projects involve extensive national and international collaborations.

The candidate should have proven skills in molecular biology such as knowledge of gene cloning, PCR genotyping, DNA sequencing, knowledge of bioinformatics related to evolutionary analyses, and capabilities related to microarray analysis and qPCR are desirable. The individual should also have a track record in publishing their work the top-tier journals of the discipline.

The position is available for 3 years at a starting annual salary of \$40,000. The position is available starting in 2007. Applications including a CV, statement of interest, and two supporting letters of reference should be sent to:

Roy G. Danzmann Professor, Department of Integrative Biology, University of Guelph, 50 Stone Rd. East, Guelph, Ontario N1G 2W1 Phone: +1 519 824-4120 ext. 58364 Email: rdanzman@uoguelph.ca

Roy Danzmann <rdanzman@uoguelph.ca>

UHawaii DamselFlyVision

POSTDOCTORAL RESEARCHER TO STUDY VI-

SUAL TARGET DETECTION IN HAWAIIAN DAMSELFLIES

UNIVERSITY OF HAWAII. I am seeking a highly motivated postdoc to work on a newly funded project to study visual target detection behavior, morphology, and visual performance in damselflies.

The Hawaiian damselfly genus *Megalagrion* is an endemic adaptive radiation with extensive color variation and extreme ecological diversification in terms of breeding habitat (light environment). Vision is important for foraging (identifying insect prey), identifying sexual partners (females are often cryptic), as well as avoiding predators. Thus, learning the fundamental mechanisms by which these animals with simple visual systems accomplish very difficult visual tasks may have broad implications for their ecology and evolution, in addition to possible practical applications.

Central Theme: How are damselflies able to detect objects of interest in cluttered and often dark environments, even when the objects are cryptic and possibly stationary?

The specific aims of the project are: 1) Characterization of visual targets in their natural light environments. 2) Characterization of targeting behavior in the field and/or laboratory. 3) Stimulus-response tests to assess relative importance of size, color contrast, illuminance, and motion. 4) Localization of foveal region of the eye based on external morphology. 5) High-speed video studies in the laboratory to quantify head and body movement kinematics of responses to visual stimuli.

Subsidiary questions: are small visual cues more effective than large ones, the mechanism by which damselflies locate objects in 3D (do they use "peering"?), whether species possess adaptations for low-light vs. high-light environments (and indeed, which aspects of the visual system are "mutable" by adaptive evolution), and sexual dimorphisms of the visual system.

Candidates should have the following: Good communication/ interpersonal skills, good experimental skills and experience in either animal behavior, visual or neurophysiology, or kinematic analysis using high-speed video. Experience with insects a plus.

Candidates interested in extending the project to address major questions in behavior, sensory physiology, or evolutionary ecology are particularly welcome.

Opportunities for exploring visual neurophysiology exist through collaboration with colleagues in the department of Zoology and the Bekey Laboratory of Neurobiology.

The Butler lab, recently relocated to the Department

of Zoology at the University of Hawaii, studies the evolution of morphology from functional, structural, and adaptive (evolutionary) perspectives. Other projects in the lab include: the evolution of sexual dimorphism in lizards and damselflies, locomotor biomechanics and the physical effects of pregnancy in lizards, opsin evolution in damselflies, and direct modeling approaches to phylogenetic comparative methods.

We have a dynamic network of colleagues and resources available via: the Bishop Museum, Pacific Biomedical Research Center, Hawaii Institute of Marine Biology, Kewalo Marine Laboratory, Pacific Center for Emerging Infectious Diseases Research, as well as the Bekey Laboratory of Neurobiology.

Appointment is initially for one year, renewable for second year based on satisfactory performance. Competitive stipend and student health plan available.

E-mail inquiries are welcome to mbutler@hawaii.edu. Applications (preferably by e-mail) should include cover letter, CV, names and contact info for 3 references, pdf's of two most significant publications or manuscripts.

Review of applications begins December 1, 2006 and will continue until filled.

Marguerite Butler <http://www2.hawaii.edu/~mbutler> <http://www.hawaii.edu/zoology/> Marguerite A. Butler Department of Zoology University of Hawaii 2538 McCarthy Mall, Edmondson 451 Honolulu, HI 96822

Phone: 808-956-8621 Lab: 808-956-9914 FAX: 808-956-9812 <http://www2.hawaii.edu/~mbutler> <http://www.hawaii.edu/zoology/> mbutler@hawaii.edu mbutler@hawaii.edu

UHawaii UMich
PhyloComparativeMethods

POSTDOCTORAL position in PHYLOGENETIC COMPARATIVE METHODS

University of Hawaii University of Michigan

We seek postdocs to work on our NSF funded project to develop new tools for comparative analysis, particularly for the purpose of studying adaptive evolution.

Ornstein-Uhlenbeck methods for Comparative Hypotheses (OUCH) is aimed at providing a comprehensive and explicit modeling framework within which biologists can test hypotheses of adaptive evolution for

continuous characters. The approach is based upon a model that allows for multiple selective regimes, each parameterized by an optimal trait value, as well as overall strengths of selection and drift. One can arrange selective regimes arbitrarily on a phylogenetic tree. This flexibility allows hypotheses of arbitrary complexity to be translated directly into statistical models and confronted with data. We have applied information-based model-selection techniques to rigorously compare multiple alternative hypotheses. This allows fine discrimination among alternatives – alternatives that may differ only in the regimes specified on a branch of particular interest. Because of these features, the method allows detailed exploration of historical differences, whether such hypotheses depend on a specific ordering of selective regimes, or a particular ecological or biogeographical association.

Project Objectives: 1) Application of OUCH to existing comparative datasets to better illustrate its analytical power and gain new insight into specific questions in evolutionary biology. 2) Development of theory for bivariate, multivariate, and frequency data. 3) Development of strategies for concurrently accounting for uncertainty in the phylogeny. 4) Investigation of statistical properties of the methods. 5) Modules written to port these methods into the Mesquite package. 6) Improvements to our project's web pages. 7) Continued support and distribution of our existing open-source software (in R) for the methods.

We welcome inquiries from motivated individuals interested in adaptive evolution, phylogenetic methods, and/or mathematical modeling who will contribute to a dynamic interdisciplinary team. Applications are welcome from both empirically- and theoretically- oriented researchers.

Applicants should have a strong background in either testing evolutionary hypotheses or in mathematical modeling as it relates to evolutionary biology or ecology. Excellent communication abilities and good interpersonal skills are necessary. Some experience in programming is required.

Desired Qualifications: Experience in comparative phylogenetic methods (especially OUCH) and/ or mathematical modeling.

Compensation: salary will be competitive. A student health plan is available.

Project location: University of Hawaii with Marguerite Butler, and/or University of Michigan with Aaron King.

To apply, send a cover letter, CV, pdfs of most relevant publications or preprints, and the names and contact

information of three references to: Marguerite Butler mbutler@hawaii.edu Aaron King kingaa@umich.edu

Review of applications begins Dec. 1 2006 and will continue until filled.

Project web pages: <http://www2.hawaii.edu/~%7embutler/ButlerLab.data/OUwork.html> <http://tsuga.biology.lsa.umich.edu/ouch/> PI web pages: <http://www2.hawaii.edu/~mbutler> <http://tsuga.biology.lsa.umich.edu/king/> Marguerite A. Butler Department of Zoology University of Hawaii 2538 McCarthy Mall, Edmondson 451 Honolulu, HI 96822

Phone: 808-956-8621 Lab: 808-956-9914 FAX: 808-956-9812 <http://www2.hawaii.edu/~mbutler> <http://www.hawaii.edu/zoology/> mbutler@hawaii.edu mbutler@hawaii.edu

UHelsinki EvolDynamics

Postdoctoral position - University of Helsinki Dispersal and species invasions: combining experiments with modelling

A postdoctoral position is available for 3 years in the Laboratory of Ecological and Evolutionary Dynamics (LEED), led by prof. Hanna Kokko and funded by the Academy of Finland. LEED (<http://www.helsinki.fi/~hmkokko/LEED.html>) is a strongly international research group in which evolutionary questions are linked to their population dynamic consequences, and the emphasis varies from developing theoretical tools to data analysis and experimental work.

The postdoctoral project considers the evolution of dispersal and space use with the aim of predicting species ranges in a changing world, using the invasive Colorado Potato Beetle (CPB) as a model organism. As the CPB is a pest species, the project has relevance for both applied and pure scientific questions. The scientific framework can be found in the following publication:

Kokko, H. & López-Sepulcre, A. 2006. From individual dispersal to species ranges: perspectives for a changing world. *Science* 313:789- 791

The project forms a collaboration with researchers between universities of Helsinki, Jyväskylä (central Finland) and Bremen (northern Germany); the postdoctoral researcher will be based in Helsinki but with frequent visits to the other universities. A good candidate should have good skills in planning and carrying out

experimental work, and be keen to consider theoretical aspects of species invasion. Particular theoretical skills are not required at this stage (i.e. experimental skills are more important), since LEED offers strong expertise in the theoretical area, and offers an environment where such skills can be gained.

The CPB has invaded Europe since the 1930s, but is not yet established in Finland. Suitable habitats (potato fields) are patchy, and all potential sites are known within southern Finland. Range expansion at species margins can be very sensitive to small changes in behaviour. While researchers at Jyväskylä already have results on e.g. trade-offs between fecundity and pesticide resistance (for project description see <http://www.cc.jyu.fi/~mappes/research/colorado/>), dispersal parameters are lacking, and it is clearly important to know if a beetle landing in a random location can respond adaptively: one has to quantify mate-searching and resource-searching abilities of males (of different life history stages) as well as mated and unmated females. Much of beetle dispersal happens passively (wind-assisted in stormy weather) and establishment attempts are always reported to authorities, which together with the detailed resource maps creates good opportunities to understand the process of species range shifts. The beetles rarely alight, and wind tunnel experiments can therefore be used to estimate the willingness for long-distance dispersal. This can be combined with experiments on movement in matrix habitat. Experimentation in the field is not possible because of the pest status of the species, therefore the results will be scaled up using modelling tools to match weather patterns and known past invasions. Finally, the study will proceed to simulating alternative future scenarios, taking advantage of known actual spatial structure of all the resources available to the beetle. Wherever possible, modelling will also allow us to derive more general results on the evolutionary ecology of species at their range edges.

The position is for 3 years, with a flexible start date (anytime from April 2007 onwards). Applicants should send an application that includes an explanation of relevant experience and a CV to hanna.kokko@helsinki.fi, and contact details of two or preferably three persons who could provide letters of reference. Copies of relevant earlier publications can also be useful. There is no strict deadline, as the position will be filled once a suitable candidate has been found. Applications can also be sent by post (see the website www.helsinki.fi/~hmkokko for address information).

– Hanna Kokko Laboratory of Ecological and Evolutionary Dynamics, Dept of Biological and Environmental Sciences, PO Box 65, 00014 University

of Helsinki, Finland tel +358 9 1915 7702, fax -7694, hanna.kokko@helsinki.fi <http://www.helsinki.fi/~hmkokko> Hanna Kokko <hanna.kokko@helsinki.fi>

UJyväskylä 2 EvoBiol

UNIVERSITY OF JYVASKYLA Faculty of Mathematics and Science Biological and Environmental Science/ Centre of Excellence in Evolutionary Research 2 Postdoctoral Fellowships

Invites applications for a new international postdoctoral fellowship scheme. More information about the research areas, groups and the Department of Biological and Environmental Science can be found at: http://www.jyu.fi/science/laitokset/bioenv/en-research/post_doc and <http://www.jyu.fi/evolresearch> for Centre of Excellence in Evolutionary Research.

The International Fellowships are open to postdoctoral scientists of any nationality to work in the aforementioned areas in the Departments, and are intended to support highly motivated individuals at an early stage in their career following a PhD. The fellow will be expected to contribute to supervision of PhD and/or MSc students within their field, and will also be encouraged to undertake a limited amount of specialist teaching.

The salary will be in the range of 2.383 - 3.479 per month depending on qualifications, experience, and personal performance of the nominee.

Applications with a CV, a research plan (maximum of two pages), and two letters of recommendation should be addressed to the Department. The applicant is advised to indicate the group or group leader he or she would like to join. Minimum qualifications: PhD or equivalent in an appropriate field by the date of proposed start as fellow, demonstrated achievements or potential for excellence in research. The applications will be evaluated by the Boards of the Departments. The short-listed candidates may be invited to visit the Department to be interviewed during December and early January, with a decision being made soon after that by the Faculty Council.

Applications should be submitted to the Faculty of Mathematics and Science, University of Jyväskylä, P.O. Box 35, 40014 University of Jyväskylä, and addressed to the Head of the Department, Professor Juha Karjalainen. The deadline is November 30th 2006 (post-marked), with employment to commence between Jan-

uary and August 2007. Applications by e-mail will not be considered.

mkankare@bytl.jyu.fi

UMassachusetts EvolGenomics

Postdoctoral Position: Evolutionary Genomics of Weedy Rice

A postdoctoral position is available in the lab of Ana Caicedo, at the Biology Department of the University of Massachusetts-Amherst, to work on the evolutionary genomics of weedy rice. The successful candidate will work closely with collaborators at Washington University (Olsen lab) and the USDA-ARS Dale Bumpers National Rice Research Center (Jia lab). Major goals of the project involve determining how introgression and selection have shaped the emergence of weedy rice strains ('red rice') in the U.S. The position will involve management and analyses of DNA sequence data, as well as some related greenhouse and lab work. A Ph.D. in molecular biology, population genetics, or related discipline is required, as well as excellent written and oral communication skills. Experience with molecular evolutionary analyses and programming desirable. The position is available for one year with possible extension for up to two years (contingent upon the availability of funding). Starting date is negotiable and is available beginning January 1, 2007. The position is unbenefited, but health insurance is provided for the individual. Consideration of applications will begin immediately and continue until the position is filled. Please send a brief cover letter with your research interests, a cv, and three letters of recommendation to: Search #R26808, c/o Lisa Barry, Biology Department, Morrill Science Center, University of Massachusetts, Amherst, MA 01003-5810. The University of Massachusetts is an Affirmative Action Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

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Ana L. Caicedo, Ph.D. Assistant Professor Biology Department phone: (413) 545-0975 University of Massachusetts fax: (413) 545-3243 Amherst, MA 01003 email: caicedo@bio.umass.edu

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

UMunich PhenotypicPlasticity

Postdoc:

UNIVERSITY of MUNICH, Department Biology, Evolutionary Ecology

POST-DOCTORAL POSITION IN THEORETICAL EVOLUTIONARY ECOLOGY: GENERAL GENETIC MODELS ON PHENOTYPIC PLASTICITY

A unifying quantitative genetic model that includes spatial and temporal variations of the environment, irreversibly and reversibly plastic phenotypic traits, reliability of inducing cues and time delays for phenotypic response will be developed to study the role of phenotypic plasticity in the process of adaptation by modifying and directing the evolutionary response of organisms under diverse selection regimes.

Pending final approval of a Collaborative Research Center in Munich under the theme "Adaptation: Selection Pressures, Phenotypic Responses, Genetic Mechanisms and Resulting Differentiation", the position is available starting January 1, 2007, but will remain open until filled. The post is available for up to 4 years. Initial appointment is for one year. A solid background in evolutionary biology and previous experience in modeling are desirable. The successful candidate is expected to interact also with other scientists of the Collaborative Research Center. See http://www.biologie.uni-muenchen.de/ou/sfb_adaptation/index.htm for more information. Applicants should submit (email preferred) a letter of interest, a complete CV, reprints (pdf-files) of not more than three papers, and name and contact information of at least two references to:

wilfried.gabriel@lmu.de <mailto:wilfried.gabriel@lmu.de>

Wilfried Gabriel Professor of Ecology Evolutionary Ecology Department Biologie II University of Munich (LMU) Grosshaderner Str. 2 D-82152 Planegg-Martinsried Germany Tel: ++49 89 2180 74 202 The University of Munich is an Equal Opportunity/Affirmative Action Employer and has an affirmative action policy for the disabled.

wilfried.gabriel@LMU.de wilfried.gabriel@LMU.de

UOxford EvoEntomology

UNIVERSITY OF OXFORD DEPARTMENT OF ZOOLOGY

Postdoctoral Research Associate in Evolutionary Ecology & Entomology Grade 7: starting salary £25,633 p.a.

A Postdoctoral Research Associate (PDRA) is required for three years to work on a BBSRC-funded project entitled Aphid secondary symbionts: from model system to crop pests. It has recently been shown that facultative bacterial (secondary) symbionts have a remarkably wide range of effects on the biology of their aphid hosts. These include increasing resistance to natural enemies, improved performance on certain host plants, and resistance to heat shock. We seek a post doc. to help explore this symbiosis. The project involves the experimental creation of novel aphid-symbiont combinations to investigate how host and bacterial genotypes interact to affect aphid fitness and how the symbiont may influence clonal competition and aphid population dynamics under different environmental conditions. The vast majority of studies of secondary symbionts have involved the model species, the pea aphid. In this project we shall also explore whether secondary symbionts similarly affect the fitness of a major cereal aphid pest, and whether symbionts may influence indirect interactions between aphid species mediated by natural enemies.

You should have a PhD and a background in evolutionary or community ecology, ideally with some experience working with insects. You should have experience in basic molecular genetic techniques and the analysis of molecular data. You would join a group of people using aphids as a model system to explore different questions in evolutionary biology and community ecology, and should enjoy working as part of a team.

This is a collaborative project involving the Universities of Oxford (Prof. Charles Godfray (charles.godfray@zoo.ox.ac.uk) and Dr. Julia Ferrari (julia.ferrari@zoo.ox.ac.uk)) and Imperial College London (Dr. Frank van Veen (f.vanveen@imperial.ac.uk)). Informal enquiries about this post are welcome. Further particulars can be downloaded from <http://www.zoo.ox.ac.uk/Current.Vacancies/> or are available from the Personnel Office, Tinbergen Building, Department of Zoology, South Parks Road, Oxford OX1 3PS, E-mail; paul.harvey.pa@zoo.ox.ac.uk The

position is available beginning on or after 1 January 2007. Applications, enclosing a CV, covering letter and contact details of three referees, should be sent to the above address, quoting reference number AT06057. The closing date for applications is 4 December 2006.

Julia Ferrari Department of Zoology University of Oxford South Parks Road Oxford OX1 3PS UK

Tel. +44 (0) 1865 271 271

julia.ferrari@zoo.ox.ac.uk julia.ferrari@zoo.ox.ac.uk

UParis PigeonPopGenet

Postdoc opportunity: population genetics of urban pigeons

A one year post-doctoral position is available in the Ecology, Systematic and Evolution laboratory of University Paris 11 (located in the suburb of Paris, France), to work on the population genetics of urban pigeons.

The subject proposed to the postdoc is part of a bigger project on urban biodiversity. One of the main goals of conservation biology is to study Human-Nature relationships, in order to allow sustainable development and biodiversity conservation. Feral urban pigeons represent a very good model in this context, since the presence of pigeons in cities is depending on different civic actors defending opposite arguments for and against pigeon's presence. Pigeons breeding structures (with abundant food but where reproduction is controlled), installed in many urban cities as a management and mediation response, offer an interesting design to answer both biological and social questions. We are studying how these breeding structures modify urban pigeon's population dynamics and selective pressures on this species and how these structures influence citizen perceptions about pigeons. The postdoc is expected to work in the following areas : (i) Determination of the population structure of urban pigeons using microsatellites and comparison of the variability of urban pigeons with those of the remaining wild birds, (ii) study of the influence of urban habitat heterogeneity (e.g. in terms of resource availability, level of pollution and parasite loads on neutral (microsatellite) and non neutral (major histocompatibility complex) genetic variability.

We are looking for someone with a background in experimental population genetics and interests in conservation biology. Some knowledge of French would be

helpful but is not mandatory. The position is for one year and must start around February 2007. Salary is 21 000 euros /year (1750/month; including social security).

E-mail inquiries are welcome to Emmanuelle Baudry. Applications (preferably by e-mail) should include cover letter, CV, names and contact info for 2 references,

Emmanuelle Baudry CNRS-UMR 8079 Ecologie, Systematique et Evolution Université Paris-Sud, Bat 362 91405 Orsay Cedex France Tel: +33 1 69 15 56 91 Fax: +33 1 69 15 56 96 email: emmanuelle.baudry@u-psud.fr

<http://www.esu.u-psud.fr/conservation/ecologie-urbaine/pigeon/index.html> Emmanuelle Baudry <Emmanuelle.Baudry@ese.u-psud.fr>

USydney Phylogenetics

Research Fellow - Phylogenetics / Post-doctoral Researcher

School of Biological Sciences,

Faculty of Science

89917

Following the award of an ARC Discovery Grant, the University's School of Biological Sciences and School of Information Technology are undertaking an exciting interdisciplinary research project.

We delighted to invite applicants from talented post-doctoral researchers in the field of phylogenetics for a 2.5 year position, starting in the first half of 2007.

Here is a brief summary: This project will answer a long-debated question in biology, that of the origin and evolution of the animals.

The debate stems from a perceived conflict between the fossil record, which suggests an origin around 543 million years ago (Mya), and the molecular record, which suggests an origin 750-1000 Mya. The molecular record has proved difficult to untangle because the methods used so far are unable to deal with the complexity of genomic data.

Using an interdisciplinary bioinformatic approach, involving computer science, statistics and biology, we will extend the use of mixed models to describe evolutionary dynamics in multi-gene data, and, with them, analyse nuclear genomes to determine the origin and evolution

of modern animals.

While this is primarily a research role, the appointed individual will be encouraged to develop their teaching, lecturing and post graduate supervisory skills. In addition, they will be expected to publish on a regular basis with regard to the development of new methodologies and software that enables the creation, analysis and evaluation of complex models.

To be eligible for appointment, individuals will have recently completed a PhD in phylogenetics or a related bioinformatics area; and have proven skills in mathematical/statistical analysis and coding (C++).

This is a not-to-be missed opportunity for a passionate bioinformatics researcher to participate in ground breaking discovery research and work with highly regarded specialists in this emerging field. To find out more about the project, visit <http://anrg.it.usyd.edu.au/> <<http://anrg.it.usyd.edu.au/>> Remuneration package: AU\$72,327 - \$77,638 p.a. (which includes a base salary Level A \$61,117 - \$65,605 p.a., leave loading and up to 17% employer's contribution to superannuation)

The position is fixed term for 2.5 years subject to the completion of a satisfactory probation period for new appointees. Membership of a University approved superannuation scheme is a condition of employment for new appointees.

For more information or to apply online, please visit <http://positions.usyd.edu.au> <<http://positions.usyd.edu.au>> and search by reference number 88917. Specific enquiries about the role can be directed to Kevin Mitchell on +61 2 9036 7800 or Dr. Michael Charleston on +61 2 9351 4459.

To respond to the selection criteria, please complete your response in the boxes below each selection criteria. If your responses exceed the 3000 character limit, you can continue your responses in a word document and attach them to your application with your resume by clicking attach files (next to resume in step 2).

The University is a non-smoking workplace and is committed to the policies and principles of equal employment opportunity and cultural diversity. The University reserves the right not to proceed with any appointment for financial or other reasons.

Closing Date for applications is the 4th of December, 2007.

kim.kiely@hrx.com.au

UTrento 2 SystemsBiol

Two postdoctoral positions are available at the Microsoft Research - University of Trento Centre for Computational and Systems Biology (CoSBI) in Trento, Italy to conduct research in the following areas:

- Analysis of robustness in biological systems and understanding its evolution employing both evolutionary approaches (see PNAS, 2006: 103 (44):16337-42) and specific system analyses.
- Analysis of topology-response relation in signaling pathways. This project aims to build on our previous attempts to catalogue possible behaviors of biological pathways under different assumptions regarding biochemical mechanisms (see JTB, 2006: 238(2):416-25) and achieve a more complete understanding of pathway biology and evolution.

The appointed postdocs will be encouraged to extend on these projects and build up their own line of research. See the web site of the Centre for appointment details including salary information. To fill the advertised positions, we are looking for enthusiastic scientists, trained in biology, mathematics, physics, computer science, or closely related areas. Competency at least in one computer language is a requirement.

Funded by the University of Trento, Microsoft Research, and the Italian Government, CoSBI has opened in spring 2006. It is becoming home to a significant team of scientists seeking to advance important scientific challenges in biology through research at the interface of biology, computational biology, and computer science. Striving to be a leading institute for this type of research, CoSBI offers state-of-the-art research infrastructure, excellent funding for attending conferences and workshops as well as support for organization of such events in-house.

Informal inquiries can be addressed to Orkun Soyer (soyer@cosbi.eu). Formal applications and general inquiries should be made through the web site of the Centre: www.cosbi.eu Orkun S. Soyer, PhD The Microsoft Research - University of Trento Centre for Computational and Systems Biology Piazza Manzi 17 38100 Povo(TN), Italy Tel: +39 0461 882823 Fax: +39 0461 882814

Orkun Soyer <soyer@cosbi.eu>

UTurku Moth Population dynamics

A Postdoctoral Position (one year) - Section of Ecology, University of Turku, Finland

Project: Cyclic population dynamics of the autumnal moth: biology and importance of parasitic wasps. Led by Academy Research Fellow, Dr. Tero Klemola.

The project continues a rich tradition at the University of Turku. Earlier projects, since 1970s, have looked for an explanation for cyclic population dynamics, e.g., from intrinsic changes of autumnal moth populations at successive cycle phases and particularly from multifaceted interactions with the main host plant, the mountain birch. However, the working hypothesis of our current project suggests that delayed density-dependent mortality due to egg, larval and/or pupal parasitism governs the cyclic population dynamics. We concentrate on the parasitism aspect, with the aim of understanding the biology of hymenopteran parasitoid species involved in the system. Their trophic interactions with autumnal moths and mountain birches are examined by large-scale field sampling and by laboratory and field experiments. Together with taxonomists, we also explore the taxonomy of these relatively poorly known insects. Our research project has been granted funding from the Academy of Finland for years 2005-2010.

The candidate will be able to continue within the already established studies. However, there is also scope for developing new questions and/or methodological approaches relating to the system, something we would very much encourage. A good candidate may have expertise, for example, in one or more of the following topics: population cycles of herbivores, ecological entomology, ecology and behaviour of hymenopteran parasitoids, construction of mathematical population models with empirical data or statistical time series analyses. Evidence of a proven ability to publish scientific results is desired. An empirically inclined candidate may work with us at the Kevo Subarctic Research Station located in northernmost Finland during the field season (1-3 months in summer).

This postdoctoral position has funding for 1 year (approximately 2500 €/month depending on experience). The position will be filled from mid-April 2007 onwards with a flexible start date (preferably before the field work period starts in June). Several possibilities exist

for applying for additional funding once the candidate is at work.

More information: Section of Ecology: <http://www.sci.utu.fi/biologia/en/ecology.html> Research project and team: http://www.sci.utu.fi/biologia/en/research/research_projects/ekologia/teroklemola/-index.html Kevo Subarctic Research Station: http://www.utu.fi/erill/kevo/index_en.html Applicants should e-mail an application that includes a description of relevant experience and motivation for this project to Tero Klemola <tero.klemola@utu.fi>. A curriculum vitae with list of publications and contact details of two persons who could provide letters of reference should be included. The deadline for applications is the 31st of January 2007.

Tero Klemola <tero.klemola@utu.fi> Section of Ecology, Department of Biology, University of Turku, FI-20014 Turku, Finland Tel: +358 2 3335769 Fax: +358 2 3336550 http://www.sci.utu.fi/biologia/en/research/research_projects/ekologia/teroklemola/index.html Tero Klemola <tero.klemola@utu.fi>

UUtrecht EvolAvianInfluenza

Dear colleague,

In a co-operative project between University of Utrecht and the Netherlands Institute of Ecology there is a vacancy for a postdoc on behaviour-based and epidemiological modeling of avian influenza in populations of migratory birds

The postdoc will be working on the project 'Combining behaviour-based and epidemiological models to identify the role of Arctic breeding migratory birds in the ecology of diseases, notably Avian Influenza' within the Theoretical Epidemiology group of the Department of Farm Animal Health, University of Utrecht. Detailed information on this vacancy can be obtained at <http://www.nioo.knaw.nl/JOBS/indexNL.htm> <<http://www.nioo.knaw.nl/JOBS/indexNL.htm>>

The project is funded by the Netherlands Organisation for Scientific Research NWO (Earth and Life Sciences) in its International Polar Year program. The work will be conducted in close co-operation with the department of Plant-Animal interactions of the

Netherlands Institute of Ecology, the Department of Virology of Erasmus University - Rotterdam, and the Arctic Centre - Groningen University. The project is part of a suite of projects called BIRDHEALTH.

We are looking for an enthusiastic candidate with a PhD degree in the field of population biology or epidemiology. You have substantial experience in mathematical modeling, preferably within the field of epidemiology or metapopulation dynamics. Because of the multidisciplinary character of the parent project you should be able to collaborate closely with epidemiologists, virologists, waterfowl and behavioural ecologists and theoreticians. You have good communication and writing skills, especially in English, and are a good player in a team of PhD-students and postdocs.

There is a possibility to transform the project into a regular 4 year PhD position, but only if there is a talented student with proven substantial experience in epidemiological modelling.

We offer a temporary full time appointment of maximally 3 years. The gross income is dependent on age and experience, but is between 2252, and 3239, (salary scale 10 Collaborative Labour Agreement of the Dutch Universities) for a full time position.

For more information please contact Prof. Hans (J.A.P.) Heesterbeek at the Faculty for Veterinary Medicine, Theoretical Epidemiology, +31(0)30 253 1574 (email: j.a.p.heesterbeek@vet.uu.nl <<mailto:j.a.p.heesterbeek@vet.uu.nl>>) or dr Silke Bauer at the Netherlands Institute of Ecology (NIOO-KNAW) (email: s.bauer@nioo.knaw.nl).

How to apply? Respond in writing with a letter of motivation, curriculum vitae and addresses of 2 references before 27-10-2006. Please send your response to the Veterinary Faculty, Department P&O, drs M.A. Heins, Yalelaan 1, 3584 CL Utrecht, The Netherlands with vacancy number 70650 or by e-mail vacatures1@vet.uu.nl.

Please forward this message to any colleagues that may consider this vacancy of interest. I apologize for the inconvenience in case you receive this message via multiple sources.

Plant Animal Interactions Centre for Limnology Netherlands Institute of Ecology (NIOO-KNAW) PO Box 1299, 3600 BG Maarssen tel. +31-294-239317 fax +31-294-232224 <http://www.nioo.knaw.nl/CL/PDI/-index.htm> S.Bauer@nioo.knaw.nl

WorkshopsCourses

Norway ModellingPlantPops Jun23-2885

Norway ModellingPlantPops Jun23-28

plant populations in Sogndal, western Norway will be arranged. The maximum number of participants is set to 20, and application deadline is 20. January. More information can be found on: <http://html.hisf.no/anf/landskap/workshop/WsSognA1-filer/frame.htm> Knut Rydgren Professor Sogn og Fjordane University college
knut.rydgren@hisf.no knut.rydgren@hisf.no

23.-28. June 2007 a workshop in Matrix models of

Instructions

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

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

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

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

Afterward

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