
E v o l D i r

November 1, 2007

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

Forward

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

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

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



Forward	1
Conferences	2
GradStudentPositions	13
Jobs	32
Other	64
PostDocs	79
WorkshopsCourses	97
Instructions	100
Afterward	101

Conferences

AustinTexas InvasivePlants Nov14-162	NHM London YoungSystematists Dec5 8
Barcelona SMBE2008 Jun5-8 CallForSymposia 2	Paris Dispersal Dec6-7 9
CityUNewYork NEMEB Nov3 deadline3	Paris HostParasite Dec5 9
DniepropetrovskU BiologicalModeling 4	Scottsdale Arizona CamelidGenetics Feb22-24 10
FortLauderdale ReefEvolutionaryGenomics Jul7-11 . 4	UMichigan EvolNetworks Mar15 10
KansasCity EcolGenomics Nov9-11 LastCall5	UtrechtU GdeJongFarewellSymp Nov23 11
MoscowStateU CompPhylogenetics MolSyst Nov16-19	UWarwick PopGenetics Dec17-20 11
Submissions 6	Winchester ArtificialLife Aug5-8 12
NESCent ComparativeMethods in R Dec10-146	ZoologicalMuseum Amsterdam Biogeography Oct25 13
NESCent ComparativeMethods in R Dec10-14 27	
NHM London Speciation Mar12-13 8	

AustinTexas InvasivePlants Nov14-16

Texas Invasive Plant Conference November 14-16, 2007
Lady Bird Johnson Wildflower Center, Austin, Texas

Abstract Deadline - October 15, 2007

All participants are invited and encouraged to present some aspect of their scholarly work in a contributed paper or poster. Submission of abstracts and other relevant information for contributed papers and posters will be carried out online. The deadline for receiving abstracts is October 15, 2007. Electronic submission of abstracts is required and all presentations (poster and oral) require an Abstract.

Submit Abstract - <http://www.texasinvasives.org/conference07/abstracts.html> View Submitted Abstracts - http://www.texasinvasives.org/conference07/Abstract_Session.asp Program Chairs: Dr. Damon Waitt (dwaitt@wildflower.org) and Dr. Earl Chilton (Earl.Chilton@tpwd.state.tx.us).

To Sponsor Conference, contact Gina Lee Jamison, gjamison@wildflower.org, 512-232-0138. To Exhibit at Conference, contact Cathy White, cwhite@wildflower.org, 512-232-0164.

To Learn More or Register for the Conference, visit -

<http://www.texasinvasives.org>

R. Deborah Overath, Ph.D. Assistant Professor of Biology Department of Life Sciences (ST 312) 6300 Ocean Drive, Unit 5800 Texas A&M - Corpus Christi Corpus Christi, TX 78412

Phone: (361) 825-2467 Fax: (361) 825-2742

“Overath, Deborah” <Deborah.Overath@tamucc.edu>

Barcelona SMBE2008 Jun5-8 CallForSymposia

CALL FOR SYMPOSIA TOPICS—SMBE annual meeting, June 5-8, 2008

The 2008 annual meeting of the Society for Molecular Biology and Evolution will be held in Barcelona. The Organizing Committee invites you to present proposals for potential symposia topics.

Symposia proposals should include:

- A cover sheet including symposium title, with your address and e-mail - Brief description of topic and rationale for its presentation to the society (a maximum of 300 words) - The name of up to four potential participants

Proposals will be selected by the Scientific Committee based on their innovation and relevance to the SMBE meeting.

The SMBE 2008 meeting will organize around 25-30 symposia. Twelve have been suggested by the Organizing Committee (attached list); the remaining symposia will be chosen from the current proposals. Each symposium will have one (or occasionally two) invited speakers (allotted time 30 minutes, including questions), and between four and eight short contributed talks (allotted time 15 min, including questions). Contributed talks will be chosen from the submitted abstracts by the Symposium Organizers and approved by the Scientific Committee. SMBE 2008 organizers will provide partial support for each symposium.

Proposals (in Word or PDF documents) should be addressed by e-mail to: csegarra@ub.edu, indicating in the subject: SMBE 2008 Symposium Proposal. Deadline: November 16, 2007.

Proposers will be notified of the committee's decision by November 30, 2007.

More information in: www.smbe2008.com
www.smbe.org ORGANIZING COMMITTEE

Chairs Carmen Segarra (Universitat de Barcelona)
Julio Rozas (Universitat de Barcelona)

Members Montserrat Aguad \dot{i} (Universitat de Barcelona) Pere Ari \dot{s} (Institut de Recerca i Tecnologia Agroaliment \dot{a} ries) Jaume Bertranpetit (Universitat Pompeu Fabra) Jose Castresana (Consejo Superior de Investigaciones Cient \dot{i} ficas) Roderic Guig \dot{i} (Universitat Pompeu Fabra) Elvira Juan (Universitat de Barcelona) Marta Riutort (Universitat de Barcelona) Alfredo Ruiz (Universitat Aut \dot{o} noma de Barcelona) Mauro Santos (Universitat Aut \dot{o} noma de Barcelona) Lluís Serra (Universitat de Barcelona)

List of 12 symposia suggested by the Organizing Committee (see also <http://www.smbe2008.com/sciprogram.htm>)

SYMPOSIA PROPOSED BY THE ORGANIZING COMMITTEE - DROSOPHILA POPULATION GENOMICS Symposium organizer: Montserrat Aguad \dot{i} Invited Speaker: Wolfgang Stephan. Ludwig-Maximilians-Universit \dot{a} t M \ddot{u} ncchen, Germany. - **GENOMICS FOR CROP EVOLUTION AND IMPROVEMENT** Symposium organizer: Pere Ari \dot{s} - **GENOME VARIATION: LESSONS FROM THE HUMAN GENOMES** Symposium organizer: Jaume Bertranpetit - **SPONTANEOUS MUTATIONS AND THEIR EVOLUTIONARY CONSEQUENCES** Symposium organizer: Armando Caballero Invited Speaker:

Peter D. Keightley. University of Edinburgh, UK. - **BIOINFORMATICS FOR MOLECULAR EVOLUTION** Symposium organizer: Roderic Guig \dot{i} Invited Speaker: C \dot{i} dric Notredame. CRG, Spain. - **EVOLUTION OF GENE REGULATION** Symposium organizer: Elvira Juan Invited Speaker: Patricia J. Wittkopp. University of Michigan, USA. - **ANIMAL DOMESTICATION GENOMICS** Symposium organizer: Miguel Pi \dot{r} ez-Enciso Invited Speaker: Greger Larson. University of Durham, UK. - **EVOLUTIONARY RADIATIONS AND MOLECULAR PHYLOGENY** Symposium organizer: Marta Riutort and Jose Castresana Invited Speaker: Antonis Rokas. Vanderbilt University, USA. - **TRANSPOSABLE ELEMENTS: DIVERSITY, DYNAMICS AND EVOLUTIONARY IMPACT ON HOST GENOMES** Symposium organizer: Alfredo Ruiz Invited Speakers: C \dot{i} dric Feschotte. UT Arlington, USA. Dmitri Petrov. Stanford University, USA. - **RNA WORLD: EMERGENCE OF LIFE ON EARTH** Symposium organizer: Mauro Santos - **GENETICS AND MOLECULAR BIOLOGY OF SPECIATION** Symposium organizer: Llu \dot{i} s Serra Invited Speaker: Daven C. Presgraves. University of Rochester, USA. - **DATING DIVERGENCE: THE TOWER OF BABEL OF GENETICISTS AND PALEONTOLOGISTS?** Symposium organizer: Rafael Zardoya Invited Speakers: Philip Donoghue. University of Bristol, UK. Andrew Rambaut. University of Edinburgh, UK.

jrozas@ub.edu

CityUNewYork NEMEB Nov3 deadline

The Registration Deadline for NEMEB 2007 is approaching !!!!

NEMEB 2007 New England Molecular Evolutionary Biologists NEMEB XVIII will be taking place at Queens College, the City University of New York, on November 3, 2007. NEMEB is an annual one-day meeting that traditionally attracts leading molecular evolutionary biologists from the major universities and research institution of New England and New York. There is no registration fee for attending or presenting at the meeting. The meeting is open to everyone and strongly encourages participation of students in the contributed talks and poster sessions.

This year's invited speakers are: Rob DeSalle, American Museum of Natural History David Haig, Harvard

University Paul Turner, Yale University John Wakeley,
Harvard University

The registration deadline is October 15. Please register at: <http://qcpages.qc.cuny.edu/~sboissin/index.php>
Stephane Boissinot, Ph.D. Associate Professor Department of Biology Queens College, CUNY 65-30 Kissena Boulevard Flushing, NY 11367-1597 Tel: 718 997 3437
Stephane.Boissinot@qc.cuny.edu

DniepropetrovskU BiologicalModeling

Dear colleagues,

We would like to invite you to participate in the 5th Annual International Conference “Mathematical and computer methods of artificial intelligence”. It is organized by Faculty of Applied Mathematics of Dniepropetrovsk National University with participation of Research Institute of Cybernetics of Ukrainian National Academy of Science named after V.M. Glushkov. The conference will take place in Dnipropetrovsk, Ukraine in November 14-16, 2007.

The conference programme includes the following topics:

1. Expert and learning systems
2. Pattern recognition
3. Mathematical models of biological, social, and economic systems
4. Neurofuzzy technologies
5. Mathematical methods of artificial intelligence
6. Use of artificial intelligent decision-making systems in economics, sociology, industry
7. Dataware technologies
8. Teaching of artificial intelligence.

The conference website (www.mpzis-dnu.dp.ua) provides information about the conference programme, registration process, travel and accommodation details. Abstracts (1-2 pages in MS Word format, 14 pt. Times Roman font) should be submitted not later than November 1, 2007.

If you have some questions, do not hesitate to contact us by e-mail svc@a-teleport.com or by phone 38 (056) 745-14-11.

We are looking forward to seeing you in Ukraine.

Sincerely yours,

Members of Organising Committee

Prof. E.M.Kiseleva,

Prof. S.V.Chernyshenko

Dr. Volodymyr Dvornyk, Assistant Professor Cunningham Hall, Room 245 Department of Biological Sciences Kent State University P.O. Box 5190 Kent, OH 44242-0001

Tel.: (330) 672-3625 Fax: (330) 672-3713 E-mail: vdvornyk@kent.edu

“It can’t be ever, because it can be never!” (A.P. Chekhov)

vdvornyk@kent.edu vdvornyk@kent.edu

FortLauderdale ReefEvolutionaryGenomics Jul7-11

Dear colleagues:

We would like to invite you to participate in Mini-Symposium 6, “Ecological and evolutionary genomics of coral reef organisms”, being held at the 11th ICRS in Fort Lauderdale, July 7th-11th 2008.

The 11th International Coral Reef Symposium science program will address scientific questions within the framework of a series of Mini-Symposia developed to address problems and issues on contemporary coral reefs that will assist management to sustain future reefs.

The central theme for the 11th ICRS is “REEFS FOR THE FUTURE”. The Symposium goals are to provide a scientific basis for coral reef ecosystem management by articulating the state of the science with respect to current and emerging stressors; improve the understanding of reef condition, function, and productivity; and grow the fields of coral reef ecosystem science, conservation, and multidisciplinary research by facilitating the exchange of ideas.

We have invited four distinguished speakers to provide a broad perspective on the main questions posed by the Mini-Symposium. The central topics of Mini-Symposium 6 and the invited speakers are as follows:

- 1) What is the role of genome science in coral reef ecology and evolution, examples from symbiosis, bleaching, disease, microbial communities and phylogenomics?

Sandie Degnan, University of Queensland 2) What genomic approaches are already available for coral reef science? Forest Rohwer, San Diego State University 3) What are the challenges for integrating global climate data with genomic data? Ove Huegh-Guldbergh, University of Queensland 4) Do genomic approaches hold promise for developing environmental monitoring? Cheryl Woodley, NOAA

We welcome abstract submissions on these topics as well as all aspects of "Ecological and evolutionary genomics of coral reef organisms". Submissions that address these questions are encouraged but not mandatory. If you have an alternative question or questions you are addressing, please so note. All submissions addressing ecological and evolutionary genomics of coral reef organisms are encouraged to be submitted for consideration.

When submitting your abstracts, please use the session code: Mini- Symposium 6. The deadline for abstract submission is 15 November 2007.

For abstract submission, registration, and other information, please visit: <http://www.nova.edu/ncr/11icrs/> Mini-Symposium 6 Ecological and evolutionary genomics of coral reef organisms

Co-conveners: Monica Medina Mary-Alice Coffroth Jodi Schwarz

If you know of anyone who might be interested who might not receive this notice, please feel free to pass it along. We look forward to your participation. If you have any questions, please feel free to contact us.

mmedina@ucmerced.edu, coffroth@buffalo.edu,
joschwarz@vassar.edu

Monica Medina <mmedina@ucmerced.edu>

KansasCity EcolGenomics Nov9-11 LastCall

5th ANNUAL ECOLOGICAL GENOMICS SYMPOSIUM

November 9 to 11, 2007

KANSAS CITY ON THE PLAZA

Dear Colleague,

Just a friendly note to let you know you can still register at <http://outreach.ksu.edu> < <http://outreach.ksu.edu/> > to attend the 2007 Ecological Genomics Symposium

being held November 9 to 11 at the Intercontinental Hotel in Kansas City on the Plaza.

Abstract submission is still open for posters as well. Please review the poster and abstract guidelines and submit your abstract online at https://www.dce.ksu.edu/cgi-bin/conf/eco_proposal.cgi.

Hotel accommodations are available at several hotels in the Plaza area. The Symposium site hotel, the InterContinental, has completely sold out and rooms are no longer available. Please visit our website, <http://www.ksu.edu/ecogen/HotelInformation.pdf>, for a list of nearby hotels that may have rooms available.

The "Genes in Ecology, Ecology in Genes" Symposium will begin on Friday evening, November 9, and conclude on Sunday, November 11, at noon. The Symposium site is the InterContinental Hotel in Kansas City on the beautiful Country Club Plaza.

For complete registration, poster abstract and hotel information, please visit our Symposium website, www.ksu.edu/ecogen/symp2007.html. A complete brochure is also available.

We look forward to seeing you in Kansas City!

* * * * *

FEATURED SPEAKERS:

Andrew Clark, Cornell University

"Genome-wide population genetic inference from 454 and Solexa sequence runs"

Michael A. Herman, Kansas State University

"Ecological genomics of nematode community responses: Model and non-model approaches"

Stefan Jansson, Umeå University, Sweden

"Natural variation in Populus"

Thomas E. Juenger, University of Texas at Austin

"Natural variation in the physiology of Arabidopsis thaliana: The ecological genetics of drought adaptation and acclimation"

James H. Marden, Penn State University

"Functional genomics of a butterfly metapopulation: Genes that matter for population dynamics, life history traits, and spatial ecology"

Therese Ann Markow, University of Arizona

"Ecological genomics of cactophilic desert Drosophila"

Jennifer B.H. Martiny, University of California, Irvine

"The ecological significance of microbial genetic diversity"

Mónica Medina, University of California, Merced

“Coral reef health: Genomic approaches to the study of symbiosis, bleaching and disease”

Nancy A. Moran, University of Arizona

“The ecological genomics of symbiotic bacteria in insects”

James M. Tiedje, Michigan State University

“Genomic insight from among close bacterial relatives”

Funding for this symposium is provided by Kansas State University.

Ecological Genomics Institute

Project Directors:

Dr. Loretta Johnson and Dr. Michael Herman

Kansas State University

104 Ackert Hall, Manhattan, KS 66506-4901

(785) 532-3482, www.ksu.edu/ecogen by

Doris Merrill, dmerrill@k-state.edu

Program Coordinator

MoscowStateU CompPhylogenetics MolSyst Nov16-19 Submissions

LAST CALL FOR SUBMISSIONS

International conference COMPUTATIONAL PHYLOGENETICS AND MOLECULAR SYSTEMATICS, CPMS'2007 16-19 November 2007, Moscow, Russian Federation

www.agora.guru.ru/cpms Deadline for abstract submission and registration - 15 October 2007.

Conference scope:

computational analysis of DNA, RNA and protein sequences; methods and algorithms of phylogenetic analysis; oriented software development; parallel and distributed computing in genetic data analysis, datamining; evolution of genome, regulatory elements and genetic control systems; dating evolutionary divergences with molecular data; phylogenetics in hot topics of organismal evolution and systematics, phylogenomics; applied molecular phylogenetics (barcoding, molecular anthropology, molecular epidemiology, forensic science, etc.).

Organizers:

Faculty of Biology of Moscow State University, Belozersky Institute for Physicochemical Biology of MSU, Faculty of Bioengineering and Bioinformatics of MSU, Kharkevich Institute for Information Transmission Problems of the Russian Academy of Sciences, Russian Foundation for Basic Research.

Conference program:

The list of confirmed invited speakers is available at the website. The program will include plenary talks by about 20 prominent scientists in the field of phylogenetics, genomics and computational biology from Russia and abroad. Submission is currently open through the website to contribute to thematic sections and the poster session.

For any particular information please contact the conference secretary Dr. Leonid Rusin, rusin@iitp.ru.

Best regards, Organizers CPMS'2007

roussine@yandex.ru

NESCent ComparativeMethods in R Dec10-14

NESCent Hackathon on Comparative Methods in R

Call for Participation and Input

The R statistical analysis package has emerged as a popular platform for implementation of powerful comparative phylogenetic methods to understand the evolution of organismal traits. The National Evolutionary Synthesis Center (NESCent) is organizing a hackathon focused on the integration of comparative phylogenetic methods within R. The event will take place on Dec 10-14, 2007, at NESCent in Durham, North Carolina. We are broadly soliciting applications for participation as well as comments and suggestions from the community. More information about the event is available at http://hackathon.nescent.org/R_Hackathon_1. A hackathon is an event at which a group of programmers who otherwise do not have the opportunity to interact on a routine basis meet to collaboratively develop working code that is of utility to the community as a whole. This event will bring together different groups of developers and users of comparative methods to work towards a common set of objectives centering on common challenges of data exchange, interoperability, and usability.

CALL FOR INPUT We are soliciting input from the community at large regarding the priorities and objectives of the hackathon. If you are a user of comparative phylogenetic software and have any ideas that you would like the community of developers to be aware of, please submit your input directly through the hackathon wiki (<http://hackathon.nescent.org>; click on 'Forum') or by email to hackathon2@nescent.org.

CALL FOR PARTICIPATION We invite all individuals interested in attending to respond by email to the questions below. We are specifically encouraging applications from: * Members of underrepresented groups, specifically women and members of minorities. * Those with skills and interests in documentation or visualization, as both are currently underrepresented among the initial set of attendees * Biologists familiar with comparative phylogenetic methods who are interested in working face-to-face with developers to help prioritize needs, document and test the code being developed, provide feedback regarding usability, and ensure the community value of the code being written at the event. * Graduate students and postdocs.

Please read the detailed description on the website (<http://hackathon.nescent.org/R.Hackathon.1>) prior to applying. Email your responses and, if possible, a CV to hackathon2@nescent.org by October 14.

1. Please indicate if you would be available for all or only for part of the Dec 10-14 time period.
2. All code produced at the event is to be made available immediately under an OSI-approved open-source license (specifically, the GPL for any code in R). Please indicate whether this would pose any difficulty for your participation.
3. Briefly describe your qualifications (e.g. your familiarity with comparative phylogenetic methods and/or R programming).
4. Please state what you would most like to accomplish at the hackathon. If you would not be writing software at the event, please state how you would like to contribute and how you would expect to benefit.
5. Please indicate if you are a member of an underrepresented group (including women, persons with disabilities, and any of the following minorities: African American, Hispanic, American Indian, Alaska Native, Native Hawaiian, and Pacific Islander).

Please be aware that the funds, as well as the space, for this event are limited, and the organizers need to balance the skills of the attendees, so not all qualified applicants can be guaranteed acceptance.

The Organizing Committee From NESCent: Hilmar

Lapp, Brian O'Meara, Samantha Price, Todd Vision, Amy Zanne From UC Berkeley: Steven Kembel

Samantha Price, Ph.D. Postdoctoral Fellow National Evolutionary Synthesis Center (NESCent) 2024 W. Main Street Suite A200 Erwin Mills Building Durham, NC 27705 USA

sprice@nescent.org

NESCent ComparativeMethods in R Dec10-14 2

NESCent Call for Users of Comparative Methods

The R statistical analysis package has emerged as a popular platform for implementation of powerful comparative phylogenetic methods to understand the evolution of organismal traits. The National Evolutionary Synthesis Center (NESCent) is organizing a hackathon focused on the integration of comparative phylogenetic methods within R. The event will take place on Dec 10-14, 2007, at NESCent in Durham, North Carolina. Having largely identified the set of developers to do the actual hacking, we are 1) soliciting applications for end-user participation and 2) comments and suggestions from the community. More information about the event is available at <http://hackathon.nescent.org/-R.Hackathon.1>. We are actively seeking applications from end-users of comparative methods: biologists familiar with comparative phylogenetic methods who are interested in working face-to-face with developers to help prioritize needs, document and test the code being developed, provide feedback regarding usability, and ensure the community value of the code being written at the event. End-users need not be experienced programmers.

CALL FOR END-USER PARTICIPATION We invite all individuals interested in attending to respond by email to the questions below. We encourage applications from: * Members of underrepresented groups, specifically women and members of minorities. * Graduate students and postdocs.

Please email your responses and, if possible, a CV to hackathon2@nescent.org by October 25. Also, please be aware that the funds, as well as the space, for this event are limited, and the organizers need to balance the skills of the attendees, so not all qualified applicants can be guaranteed acceptance.

1. Please indicate if you would be available for all or

only for part of the Dec 10-14 time period. 2. Briefly describe your qualifications (e.g. your familiarity with comparative phylogenetic methods, particularly those implemented in R). How you would like to contribute and how you would expect to benefit? 3. Please state what you would most like to see accomplished at the hackathon. 4. Please indicate if you are a member of an underrepresented group (including women, persons with disabilities, and any of the following minorities: African American, Hispanic, American Indian, Alaska Native, Native Hawaiian, and Pacific Islander).

The Organizing Committee From NESCent: Hilmar Lapp, Brian O'Meara, Samantha Price, Todd Vision, Amy Zanne From UC Berkeley: Steven Kembel
sprice@nescent.org

NHM London Speciation Mar12-13

Speciation Symposium, London 12-13 March 2008

The third Natural History Museum Speciation Symposium will be held from 1pm on 12 March to 3pm on 13 March in the Museum's Flett Lecture Theatre, Exhibition Road, London. The Keynote Address will be by Prof. Leo Beukeboom on 'Speciation in *Nasonia* wasps'.

We now invite contributed papers. Please send a proposed title and brief abstract to the organisers, Ralph Harbach (reh@nhm.ac.uk) and Roger Butlin (r.k.butlin@sheffield.ac.uk).

Bookings for participants will be taken nearer the time. There will be a small charge to cover refreshments. We will not be providing accommodation so you might like to look at London hotels now. We can supply a list of hotels within easy reach of the Museum.

Ralph Harbach and Roger Butlin

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

NHM London YoungSystematists Dec5

9TH YOUNG SYSTEMATISTS' FORUM

Wednesday, 5th December 2007, 10 am

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

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

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

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

Abstracts must be submitted by e-mail in English no later than 16th November 2007. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

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

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

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

Interested in utilizing Museum resources for systematic research? See funding opportunities via SYNTHESYS (<http://www.synthesys.info/>)

"Dr. PD Olson" <P.Olson@nhm.ac.uk>

Paris Dispersal Dec6-7

DISPERSAL conference December 6-7, 2007 Museum National d'Histoire Naturelle, department for Ecology & Biodiversity Managing Paris, France Abstract deadline - November 12, 2007

In September 2005, Silke Hein, Thomas Hovestadt and Hans Van Dyck brought together about 20 researchers within the field of dispersal ecology and evolution for an informal discussion meeting in the Fabrikschleichach fieldstation (Würzburg University). The format of this workshop meeting and the enthusiastic participation of both empiricists and modelers made this a really successful and useful event. Some of the participants met again during other meetings (BES meeting at Oxford, 2006 and the Biobutterfly congress at Rome, 2007) Yet there is a clear demand for a second edition of this dispersal workshop. It will be held at the Ecology lab of the Museum National d'Histoire Naturelle in Brunoy, near Paris, at the beginning of December 2007. The attendees of this closed meeting, which needs to be more restricted in the number of participants, wish to open their discussion to a wider audience in a 2-days conference that will be organized back-to-back with the workshop, in Paris. The organizers of this event are pleased to open the registration for this conference.

Program: 2 full days (8.30 - 18.30)

Thursday, December 6th: Oral Session 1 : Mechanistic dissection of dispersal: how far have we moved? Report from the workshop: Hans Van Dyck, Nicolas Schtickzelle, Virginie Stevens & Michel Baguette Chair: James Bullock

Poster session 1

Oral Session 2 : How can we study information acquisition before emigration or during transfer? What can we learn from this field? Keynote address: Jean Clobert Chair: Achim Poethke

Friday, December 7th: Oral Session 3 : Consequences of dispersal for individuals, populations, metapopulations and species. Keynote address: James Bullock Chair: Thomas Hovestadt

Poster session 2

Oral session 4 : Modelling the evolution of dispersal. Report from the workshop: Calvin Dytham, Thomas Hovestadt, Achim Poethke & Justin Travis Chair: Hans Van Dyck

Abstract submission

All participants are invited and encouraged to present some aspect of their work in a poster or in a contributed talk (15 minutes + 10 minutes discussions). Please note that the number of talks selected will be limited to 20. Talks selection will favor speculative/discussion provok-

ing themes and original unpublished results presentation.

Submit abstracts before 12 November 2007, with any relevant information (name, affiliation and full address for all authors, nature of the communication: oral or poster) as an attached word document sent to Michel Baguette (baguette@mnhn.fr) or to Virginie Stevens (stevens@mnhn.fr).

Registration

To register, please send a mail exclusively to Virginie Stevens (stevens@mnhn.fr), with the name, full address and affiliation of each participant. Please note that registrations will be limited to 200 participants.

Registration fees

Students: 25 €/day Others: 50 €/day To be paid (cash) at arrival.

Travel and accommodation

Participants are invited to deal with their own hotel reservation in Paris, as well as with their flights or train to Paris. Paris abounds in hotels and youth hostels. The conference will be at the ?campus Jussieu? at University Pierre & Marie Curie, in the ?Quartier Latin? (5th arrondissement). Here are some websites for hotel/room registration:

Hotels: www.hotels.com www.Hotels-Paris.fr
www.booking.com/Paris www.0800paris-hotels.com
 Beds & Breakfasts: www.2binparis.com
www.paris35.com Youth hostels: www.bvjhotel.com
 – Virginie M. Stevens, PhD Post-doctoral researcher
 Museum National d'Histoire Naturelle General Ecology
 4, Avenue du Petit Château F-91800 Brunoy France
 +33(0)1.60.47.96.22 stevens@mnhn.fr

Paris HostParasite Dec5

Workshop / Conference

What is the relative contribution of the “environment” to epidemiology and coevolution? During one day of presentations and discussions, we hope to promote the emergence of synthetic ideas on the role of the environment in the evolutionary ecology of host parasite interactions.

Paris, December 5th, 2007

Invited speakers:

Michael Hochberg Olivier Restif Peter Tiffin Fabrice Vavre

More information:

----- <http://simonfellous.free.fr/wgge.html> -----

Registration on a first come, first served basis' & before Nov. 15th : Write to: Simon Fellous "simonfellous@free.fr" or Lucie Salvaudon "lucie.salvaudon@uspud.fr"

Framework:

The "environment" of parasites is made of many different types of factors. First, the genotype of the host itself produces the background of the parasite's development. Moreover, the interactions between host and parasite genotypes (i.e. GxG interactions) can result in the shared control of their traits. Finally, as for any type of organism, other biotic and abiotic factors, occurring inside and outside the host, can affect the translation of genotypic variations into phenotypes. Such sensu stricto environmental factors add another layer of complexity to the determinism of phenotypes as they can affect the interactions between host and parasite genotypes leading to GxGxE interactions. The number of "statistically significant" environmental factors (e.g. temperature, within host competitors, GxG interactions) never stops growing. But how important they are remains obscure. Planning:

The presentations will be followed by two general discussions on:

Morning: The coevolutionary process and what variability studies tell us of evolution in dynamic environments
 Afternoon: Integrating environmental fluctuations into mathematical models of host and parasite evolution.

+ Conference diner in the evening

Scottsdale Arizona CamelidGenetics Feb22-24

The 1st International Workshop on Camelid Genetics to be held the weekend of February 22-24, 2008 at The Hotel Scottsdale in Scottsdale, Arizona. The workshop is being organized by the Alpaca Research Foundation and the Alpaca Registry, Inc.

The impetus for the workshop is the availability of the radiation hybrid map of the alpaca genome and the

scheduled completion of the 2x sequence in 2007. The purpose of the workshop is to provide an opportunity for camelid researchers, veterinarians and geneticists to meet, exchange ideas and information and to discuss future priorities and collaborations. The tentative program is available upon request.

Participation in the workshop is limited to a total of 40 invitees. If you would like to participate in the workshop send a letter of interest to Patricia Craven at alpcone@hughes.net as soon as possible but no later than Nov 1, 2007. -

johnsonw@mail.ncifcrf.gov

UMichigan EvolNetworks Mar15

CALL FOR NOMINATIONS

UNIVERSITY OF MICHIGAN EARLY CAREER SCIENTISTS SYMPOSIUM: NETWORKS IN ECOLOGY AND EVOLUTION

The Ecology and Evolutionary Biology department at the University of Michigan invites the nomination of outstanding scientists early in their careers to take part in a symposium focused on the study of networks in ecology and evolutionary biology. This symposium will be held in Ann Arbor, Michigan on Saturday, March 15, 2008. Eight scientists will be selected to present their work. All research related to networks in ecology and evolution will be considered, and we particularly encourage nomination of researchers using network properties to elucidate general principles in these fields.

In addition to the selected speakers, the symposium will include keynote talks by Dr. Andreas Wagner (University of Zurich) and Dr. Jordi Bascompte (Estación Biológica de Doñana, CSIC).

Early career scientists are defined as senior graduate students (will receive their Ph.D. within one year), postdoctoral researchers, and junior assistant professors (< 3 years service). Graduate students and postdocs should be nominated by their advisor or a senior colleague. Assistant professors may nominate themselves or can be nominated by a colleague.

Nominations must include a brief letter of recommendation addressing both the nominee's scientific and communication skills, a copy of the nominee's curriculum vitae, and a brief abstract of the proposed presentation (< 200 words, written by the nominee). Nomina-

tions can be sent electronically to kuhnlein@umich.edu with the subject line: "Nominee for Early Career Scientists Symposium" or by mail to "Early Career Scientists Symposium, Department of Ecology and Evolutionary Biology, 2019 Natural Science Bldg., 830 North University, Ann Arbor, MI 48109-1048".

All nominations must be received by November 2, 2007. Selected participants will be contacted by November 21, 2007.

For more information, contact Gail Kuhnlein (kuhnlein@umich.edu).

2007 ECSS organizing committee: Dr. Patricia Wittkopp (wittkopp@umich.edu) Dr. Annette Ostling (aostling@umich.edu) Susanna Messinger (susmess@umich.edu) Wenfeng Qian (wfqian@umich.edu)

wittkopp@umich.edu wittkopp@umich.edu

you at the 'Serre' of the Botanical Gardens for a drink and a chat.

Please register (free) with Zoltán Bochdanovits (Z.Bochdanovits@vumc.nl) or Carolien de Kovel (C.deKovel@umcutrecht.nl)

Travel directions: Symposium and reception are both at the University grounds "De Uithof", within walking distance of each other. De Uithof can be reached by bus 11 (stop Budapestlaan) and 12 (stop Kruytgebouw) from railway station Utrecht Centraal. By car, take exit "de Uithof" from route A28.

Kruytgebouw. Padualaan 8. Utrecht

Serre, Botanische Tuinen, Budapestlaan 17.

See also <http://www.genomics.med.uu.nl/~ckovel/-SymposiumGerdien.html> C.deKovel@umcutrecht.nl C.deKovel@umcutrecht.nl

UtrechtU GdeJongFarewellSymp Nov23

Symposium "Developments in Evolutionary Biology"

In honour of Gerdien de Jong, who will retire as Associate Professor Evolutionary Population Biology at Utrecht University, the Netherlands.

23 NOVEMBER 2007, UTRECHT UNIVERSITY, KRUYTGEBOUW Room W105

Programme

13:00 Ontvangst

13:30 Koos Boomsma,

14:00 Roy Erkens, Phylogeography, merging phylogenetics and population genetics

14:30 Patsy Haccou, Effects of deleterious mutations on the evolution of reproductive modes

15:00 Pauze

15:30 Jacintha Ellers, Adaptation to environmental variation: phenotypic plasticity and beyond

16:00 Frietson Galis, Evolutionary novelties: the making and breaking of pleiotropic constraints

16:30 Gerdien de Jong, Coincidence

17:00 Reception in Serre Botanische Tuinen till 19:00.

After the symposium Gerdien will be happy to meet

UWarwick PopGenetics Dec17-20

Registration is now open for the 41st Population Genetics Group meeting UK (PopGroup) that will be held at the University of Warwick Conference Centre (United Kingdom) 17th to 20th of December 2007.

Please visit the conference website www.popgroup.org for more information & registration (deadline is the 10th of November). The cost of the meeting is 290 UK pounds including fees, accommodation and meals.

PopGroup is a fairly informal meeting, which brings together ~200 scientists working in population genetics and evolutionary biology, from the UK, Europe and more remote and exotic places, such as North America and Australia. All areas of evolutionary biology are covered.

Warwick conference centre is located very close to Birmingham International airport. It is also only about two hours by coach from London Heathrow Airport. It is easily accessible by rail, and by car (see travel information and maps on the website). It is also a great place for those interested in sightseeing: historic Warwick Castle and Stratford-upon-Avon, the birthplace of William Shakespeare are within half an hour drive from the conference centre (e.g. see <http://www.stratford-upon-avon.co.uk/>).

The conference website: www.popgroup.org Hope to see you at the Popgroup 2007!

Dmitry A. Filatov, PhD Department of Plant Sciences,
University of Oxford, South Parks Road, Oxford, OX1
3RB, United Kingdom

Tel: +44 (0)1865 275051 Fax: +44 (0)1865 275074
Email: dmitry.filatov@plants.ox.ac.uk

Dmitry Filatov <dmitry.filatov@plants.ox.ac.uk>

Winchester ArtificialLife Aug5-8

CALL FOR PAPERS: Artificial Life XI

The Eleventh International Conference on the Simulation and Synthesis of Living Systems 5th - 8th August 2008, Winchester, UK www.alifexi.org Artificial life investigates the fundamental properties of living systems through simulating and synthesizing biological entities and processes in artificial media. Summer 2008 will see the international ALife conference hosted by the University of Southampton, UK, bringing the meeting to Europe for the first time in its 21-year history. Over the last two decades, some of the highly speculative ideas that were discussed at the field's inception have matured to the extent that new conferences and journals devoted to them are being established:

synthesising artificial cells, simulating massive biological networks, exploiting biological substrates for computation and control, and deploying bio-inspired engineering are all now cutting-edge practice.

The ALife XI conference provides an opportunity for those working across these topics to get together and exchange ideas and results.

To this end, the conference will present a selection of the best current work in the field, highlight new directions for investigation, and present high-profile keynote speakers.

Papers are welcome in all areas of the field, including:

Synthesis and origin of life, self-organization Self-replication, artificial chemistries Evolution and adaptation, evolutionary dynamics Evolutionary games, co-evolution Development, differentiation, and regulation Generative representations Synthetic biology Self-organizing technology, self-* computing Computational ecosystems Unconventional and biologically inspired computing Bio-inspired robots and embodied cognition Autonomous agents, evolutionary robotics Collective behavior, communication, cooperation Artificial consciousness; the relationship between life and mind

Philosophical, ethical, and cultural implications Mathematical and philosophical foundations of ALife New and creative syntheses

All authors are encouraged to explain how their work sheds light on the fundamental properties of living systems and makes progress on the important open questions identified at previous meetings.

The conference will be held in Winchester, a beautiful historic city in southern England known for its 11th-century cathedral and 12th-century castle. Winchester is set in forested countryside about an hour southwest of London and Heathrow airport, and a few miles from the host institution, the University of Southampton.

PAPER/ABSTRACT FORMAT

There are two options for submission: either full paper format or abstract format. Full papers have an 8 page maximum length, while abstracts are limited to 500 words. Every submission will be subject to full peer review. All accepted submissions will be allocated a 30-minute oral presentation slot with no distinction being made between the two submission formats. All formatting guidelines (including word and latex style files) and submission instructions will be available on the conference submission webpage:

<http://www.alifexi.org/submissions/> .

PUBLICATION

Both full-paper and abstract submissions will be published by MIT Press in a single online proceedings volume. The best 15-20 papers will have the opportunity to be published in special issues of the journal Artificial Life.

IMPORTANT DATES

29 February 2008: Full paper submission deadline

18 April 2008: Notice of acceptance for full papers

25 April 2008: Abstract submission deadline

9 May 2008: Camera ready deadline

5-8 August 2008: Conference dates

ORGANIZATION

Seth Bullock (chair), Jason Noble, Richard Watson, Mark Bedau.

Host institution: School of Electronics and Computer Science, University of Southampton, UK.

CONTACT

For further information about the conference program, travel, accommodation, and local arrangements, please see the website www.alifexi.org. For questions about

the submission and reviewing process, please email submissions@alifexi.org. For all other questions, contact questions@alifexi.org.

Dr Alex R Kraaijeveld School of Biological Sciences University of Southampton Bassett Crescent East Southampton SO16 7PX United Kingdom tel: (+44)-(0)23-80593436 fax: (+44)-(0)23-80594459 <http://www.sbs.soton.ac.uk/staff/ark/ark.php> < <http://www.sbs.soton.ac.uk/staff/ark/ark.php> >

A.R.Kraaijeveld@soton.ac.uk

ZoologicalMuseum Amsterdam Biogeography Oct25

Dear Evoldir members, Please find enclosed the information the symposium "Biogeography - explaining and predicting species distribution in space and time" organized by the Zoological Museum of Amsterdam (ZMA) and the Institute for Biodiversity and Ecosystem Dynamics (IBED) of the University of Amsterdam.

For more details and directions see:

<http://web.mac.com/saskiamarijnissen/iWeb/-Majimakubwa/Mini%20Symposium.html> Best regards

SYMPOSIUM Thursday 25 October Zoological Museum Amsterdam (ZMA), Mauritskade 57, Amsterdam, lecture hall

Biogeography - explaining and predicting species distribution in space and time

13.00 Per Ericson, evolution, biogeography and adap-

tation in major clades of birds (The Swedish Museum of Natural History, Stockholm)

13.20 Miguel Vences, vertebrate adaptive radiations in Madagascar: species diversity and geographical patterns of speciation (Technische Universität Braunschweig)

13.40 Jamie Dick, role of behaviour in biological invasions and species distributions (Queen's University Belfast)

14.00 Gerard van der Velde, life out of bounds: water space invasions. (Radboud Universiteit Nijmegen)

14.20 Coffee break 20 min.

14.40 Neil Cumberlidge, biogeography and evolution of Madagascar's freshwater crabs (Northern Michigan University)

15.00 Ellinor Michel, tests of niche and neutral theories of community ecology using gastropod distributions in Lake Tanganyika (The Natural History Museum, London)

15.20 Christoph Schubart, multiple colonization and radiations of crabs in ancient lakes of Sulawesi (Universität Regensburg)

15.40 Koen Martens, biogeography of non-marine ostracods in space and time (Royal Belgian Institute of Natural Sciences, Brussels)

16.00 Fred Schram, does biogeography have a future in a globalized world with globalized faunas? (Burke Museum, University of Washington, Seattle)

16.20 Closure (drinks in the reception hall ZMA)

Universiteit van Amsterdam ZOOLOGISCH MUSEUM AMSTERDAM

xavier@science.uva.nl

GradStudentPositions

ColoradoStateU PlantEvolutionaryGenetics	14	ETH Zurich FungalSpeciesHybridization	16
CSIRO Rockhampton Australia 3 QuantGenetics ..	14	GrandValleyStateU WaspPopGenet	17
DalhousieU EvolutionaryConsBiol	15	Halle Germany PlantMolEvol	17
ETH Zurich EvolBiol	16	IowaState EvoDevo	18

LaurentianU AmphibianEvolution	19	Uillinois 2 ParasitoidWaspSystematics	26
LehighU InsectEvolGenetics	19	UillinoisUrbanaChampaign EvolAnthro	27
Lisbon 1yr SexDetermination	20	ULausanne EvolBiol	27
McGillU PlantEvolution	20	ULeuven PlantSystematics	27
NorthCarolinaStateU QuantGenetics	20	UMaryland BEES	28
OldDominionU Euteleost TreeOfLife	86	UmeaU PlantMolEvol	29
SangerInstitute Genomics	22	UNevadaReno EvolEcol	29
UAkron EvolReproductiveBiol	22	USouthCarolina CompEvolBiol	29
UAkron InvasiveSpeciesEvolution	22	UStAndrews Bioinformatics	30
UALaska SelfIncompatibility	23	UWindsor FishGenomicsEvol	30
UALberta Insect cons genetics	23	UWisconsinMadison PlantInsect	30
UAntwerp RatSkullEvolution	24	UWyoming PolarBearAdaptation	31
UArkansas EvolBiology	24	UZurich EvolBiol	31
UBern BirdFluEvolution	25	WashingtonStateU EvolutionaryModeling	32
UBritishColumbia Okanagan ConsGenetics	25		

ColoradoStateU PlantEvolutionaryGenetics

PhD fellowship - Evolutionary Genetics of Invasive Jointed Goatgrass

Funding is available for a PhD student to study jointed Goatgrass at Colorado State University. This PhD fellowship is funded as part of a collaboration between evolutionary biologists and agricultural scientists to understand the impact of gene flow from wheat to its close relative, jointed goatgrass (*Aegilops cylindrica*). This project involves using a variety of molecular approaches to quantify gene flow, ranging from cytogenetics to sequence evolution. The student will receive formal training in genetics and evolution, as the research will also examine the population history of the species including invasive populations in Colorado, and the evolution of traits responsible for the agricultural impact of this weed. We are looking for a highly motivated individual with a B.S. or Masters degree and with the demonstrated ability to carry out outstanding research. The successful candidate must have a strong background evolutionary biology and genetics, and the desire to answer applied questions in agriculture and weed science. We also emphasize the ability to interact and work collaboratively with others, as the student will work closely with several Professors on the project. In addition to the molecular assays, the project as a whole involves substantial quantitative genetic and ecological genetic experiments. While no experience in this area is required, the candidate will receive graduate training in quantitative genetics and the evolution of complex traits.

The position is available starting Fall 2008. Salary and benefits are competitive, and Colorado State is an excellent academic environment for a PhD in plant genomics, weed science, plant evolutionary biology and the impacts of invasive species.

If you are interested in this PhD fellowship, please send a letter of interest and a C.V., as a pdf via e-mail to jkmckay@colostate.edu

[jkmckay <jkmckay@lamar.colostate.edu>](mailto:jkmckay@lamar.colostate.edu)

CSIRO Rockhampton Australia 3 QuantGenetics

THREE PHD POSITIONS AT CSIRO ROCKHAMPTON, AUSTRALIA

There are 3 PhD positions open at the JM Rendel laboratories, Rockhampton in the Division of Livestock Industries, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia. These 3 PhD positions relate to scientific research projects in the area of Quantitative genetics/genomics, Bioinformatics and Systems Biology and are funded by the Office of the Chief Executive (OCE) of CSIRO, CSIRO Livestock Industries (CLI) postgraduate studentship program and Beef CRC for Genetic Technologies studentship awards. Students will be trained in research projects under joint supervision with a University. The division of CLI has a well established PhD training programme and there are currently around 70 doctoral and masters students within CLI.

OCE PROJECT 1: Genetic Improvement using SNP Genotyping Arrays in Livestock This project is based on prediction of molecular (SNP) breeding values and comparison of genetic improvement/economic responses from SNP panel versus traditional selection methods in animals. Computer simulations will be used but the developed prediction methods will be tested on SNP Chip data from sheep parasite resistance whole genome scan experiments. The successful candidate will be enrolled at the University of New England (UNE), Armidale. He/She will be supervised by Dr Haja Kadarmideen at CSIRO Rockhampton and co-supervised by Prof. Julius van der Werf at UNE, Armidale. Relevant project information and application forms can be found at CSIRO Careers online website: http://recruitment.csiro.au/asp/Job_Details.asp?RefNo=2007%2F872. Applications close by October 31, 2007.

CLI PROJECT 2: Design and Power of Genetical Genomics (eQTL) Mapping This project will investigate statistical methods, design and power of the genetical genomics experiments or expression Quantitative Trait Loci (eQTL) mapping methods. Research is computer based however opportunities exist to work on sheep parasite resistance and beef CRC cattle experiments. The successful candidate will be enrolled at the University of Sydney (USYD), Sydney. He/She will be supervised by Dr Haja Kadarmideen at CSIRO Rockhampton and co-supervised by Assoc. Prof. Peter Thomson at USYD, Camden. Relevant project information and application forms can be found on CLI website <http://www.csiro.au/listudent> on or after October 6, 2007. Applications close by November 4, 2007.

BEEF CRC PROJECT 3: Cattle Fertility Gene Discovery by Integrative Genomics This is a gene discovery project of Beef CRC Program 4 for female reproductive performance (age at puberty and postpartum re-conception success) in tropical beef cattle. The project will eventually develop a commercial DNA-based test that cattle producers can use. The PhD project is based on specific part of this large project which is to evaluate different filtering(editing) methods in analysing SNP array data and investigate advanced statistical genetic methods including genome-wide epistasis (heat mapping), random models and breed admixture mapping. The student will be enrolled at the University of New England (UNE) in Armidale or University of Queensland in Brisbane. Relevant project information and application forms can be found at Beef CRC postgraduate project section at <http://svc192.bne150v.server-web.com/default.asp?page=/education/scholarships>. Applications close by October 31, 2007.

GENERAL INFORMATION Availability of SNP Chips and whole genome-wide association tests mark the revolutions in gene discovery for many complex traits. These studies are increasingly merged with high throughput transcriptomics experiments (genetical genomics). The candidate will work with an internationally recognised team of scientists in this area of research both within CSIRO and the university, with the access to state-of-the-art experimental and computational facilities and large genomic (SNP) and microarray gene expression databases. All successful students will be physically based in CSIRO Rockhampton but travel frequently to respective universities for course work and/or training. Students will have close supervision and support from geneticists on site. Interested applicants must apply online using the appropriate application forms, the procedures and eligibility conditions that are available at the corresponding websites for each award. Students may apply for more than scholarship. Eligibility and Payment: For ALL studentships, a high quality Honours or Masters degree or similar in the field of (Bio)statistics or genetics or computational sciences or animal/plant genomics/breeding or Bioinformatics or Systems Biology or similar field is required. Experience in computer programming

— / —

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>

DalhousieU EvolutionaryConsBiol

PHD POSITION AT THE INTERSECTION OF CONSERVATION AND EVOLUTIONARY BIOLOGY - DALHOUSIE UNIVERSITY, NOVA SCOTIA, CANADA. We seek a PhD student to study the fitness consequences of hybridization between divergent Atlantic salmon populations through an ongoing, collaborative project with the Department of Fisheries and Oceans (DFO) Canada. One aspect of the project will focus on the factors that control the duration of outbreeding depression between farmed and wild salmon in the Northwest Atlantic. A second aspect of the project will examine the relationship between hybrid fitness and parental divergence across wild salmon populations that straddle a large geographic area in the Northwest Atlantic. The student will benefit from exceptional

aquatic, laboratory and molecular genetic facilities at Dalhousie University (Halifax, Canada), field support from DFO, and the availability of an F3 generation of hybrid crosses between three populations, including the primary source of salmon used in aquaculture facilities in eastern Canada. Previous experience involving experimental research, quantitative or molecular genetics and/or fishes are assets for this position. Applicants should submit a CV, a statement of research interests, and the names and contact information for three references. Please submit applications either to: Dr. Dylan Fraser, Postdoctoral Fellow, Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4J1; Phone (902) 494-6279; Fax (902) 494-3736; dylan.fraser@dal.ca; or Dr. Jeffrey Hutchings, Professor, Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4J1; Phone (902) 494-2687; Fax (902) 494-3736; jeff.hutchings@dal.ca. Deadline: December 15, 2007. Start date: May or September 2008.

Dylan Fraser <Dylan.Fraser@dal.ca>

ETH Zurich EvolBiol

Eawag is the Swiss Federal Institute for Aquatic Science and Technology, a Swiss-based and internationally operating aquatic research institute within the ETH domain. The Department Aquatic Ecology (Prof. Jukka Jokela, Institute of Integrative Biology, ETH-Zurich) has an opening for a

PhD Student

to investigate the evolutionary ecology of aquatic invertebrates. Possible research directions include the study of host-parasite interactions, population genetic structure and local adaptation and may involve field work, experiments and molecular analyses. The student will enroll in the graduate program of ETH-Zürich. The position will be associated with the project CCES-BioChange, which focuses on the evolutionary ecology of alpine biodiversity change. In this project seven research groups of the ETH-domain collaborate to develop concepts, collect data and conduct experiments to derive predictive models of biodiversity change in response to environmental, ecological and evolutionary processes affecting alpine habitats.

We are looking for a highly motivated student with a strong interest in evolutionary ecology. The ideal candidate has a demonstrated ability to design and carry

out experiments but candidates with a background in population genetics/molecular ecology and a keen interest in experimental work are also encouraged to apply. Some experience with fieldwork is important and the candidate should be able to work independently and as part of a team. A diploma or M.Sc. (or equivalent) degree in biology is mandatory. Working language of the lab is English.

The Department of Aquatic Ecology is located in Duebendorf (near Zuerich), Switzerland, and offers a stimulating environment with broad expertise in ecology and evolution and excellent research facilities. The position is funded for three years, and the anticipated starting date is 1 January 2008 or soon thereafter. For further information see <http://www.eawag.ch/organisation/abteilungen/-eco/index.EN> or contact irene.keller@eawag.ch.

To apply, please send your CV, list of publications (if available), a letter outlining your past research and motivation for this position (1 page), copies of your academic qualifications, and contact details of 2-3 referees in a single pdf file to irene.keller@eawag.ch. The deadline for applications is 15 December 2007.

Irene.Keller@eawag.ch Irene.Keller@eawag.ch

ETH Zurich FungalSpeciesHybridization

Doctoral position at Institute of Integrative Biology, ETH Zürich

In the group Plant Ecological Genetics of the Institute Integrative Biology, ETH Zürich, is a doctoral position available starting January 1, 2008.

Project title: Significance of hybridization in asexual fungal endophytes of grasses

Funding: Swiss NSF

Project description: Interspecific hybridization with creation of new lineages or species is a well known phenomenon in plants and animals, but is largely unexplored in fungi. Asexual *Epichloë* endophytes of grasses (referred to the anamorph genus *Neotyphodium*) represent the most prominent case of abundant interspecific hybridizations. *Epichloë* endophytes (Ascomycota, Clavicipitaceae) are wide-spread in pooid grasses forming systemic associations with their hosts that span the continuum from antagonism to mutualism. The

majority of Neotyphodium endophytes that have been analyzed phylogenetically are heteroploid hybrids with two or more sexual *Epichloë* species as ancestors. Hybrids are maintained through successive host generations by vertical transmission and often dominate in natural populations and over large geographical ranges. It has been suggested that hybridizations provide a selective advantage over non-hybrids by substituting for sexual recombination or by acquiring beneficial genes that strengthen their mutualistic capabilities. However, none of these hypotheses has been tested. The overall objective of this research proposal is to investigate the significance of hybrid Neotyphodium endophytes for the ecological fitness of their host plants in different environments. As study system we will use the woodland grass *Hordelymus europaeus* that is known to be host of hybrid and non-hybrid endophytes. *Epichloë* endophytes offer a model system on which fundamental questions regarding the evolution of mutualisms can be studied.

We are seeking a highly motivated doctoral student with strong interests in evolutionary biology and mycology. Candidates should have a Diploma or Master's degree in Biology or Plant Sciences.

Adrian Leuchtman

Contact: Prof. Dr. A. Leuchtman Institute of Integrative Biology Universitätstrasse 16 CH-8092 Zürich, Switzerland e.mail: adrian.leuchtman@env.ethz.ch Phone.: +41 44 632 3854

Adrian Leuchtman <adrian.leuchtman@env.ethz.ch>

GrandValleyStateU WaspPopGenet

I am soliciting applications for an MS student to work on projects examining the population and colony genetic structure of *Polistes metricus* paper wasps. *P. metricus* is distributed throughout much of eastern and southern North America and has recently been developed as a model system for behavioral genetics. This student will participate in population genetic studies characterizing genetic structure over a broad part of the of the *P. metricus* range. The student will also participate in studies of the social and genetic structure of colonies in different parts of the *P. metricus* range to better understand the ecological constraints faced by wasp colonies in different regions and how these ecological differences affect social structure. These studies

will also aid in the interpretation of work examining the genetic basis for helping and foraging behavior, to be carried out in other, collaborating labs. This is an NSF funded project with funds to support all laboratory and field work. Stipend funding is available competitively through the Biology Graduate program at Grand Valley State University. Interested applicants are encouraged to contact Dr. Michael Henshaw (henshawm@gvsu.edu) for more information. More information about the MS program at GVSU can be found at www.gvsu.edu/biology. Applications received before January 15th will receive full consideration for stipend funding.

Dr. Michael Henshaw Department of Biology Grand Valley State University Allendale, MI 49509 Ph (616)331-2118 Fax (616)331-3446 e-mail: henshawm@gvsu.edu

Michael Henshaw <henshawm@gvsu.edu>

Halle Germany PlantMolEvol

Being an international research competence centre, the Helmholtz Centre for Environmental Research UFZ is investigating the interaction between man and environment in used and disturbed landscapes. The centre develops concepts and methods to assure a healthy environment for future generations.

The Department of Community Ecology offers positions for

1 PhD position (m/f)

in the area of Plant Molecular Ecology

The candidate will work in a third party project founded by the German Ministre for Science and Education (BMBF) in the frame of its BIOLOG program. The project is embedded in the project SUBICON which follows the natural succession als well as land use changes in a former brown coal mining area. The project specifically aims at the parallel analysis of species richness and molecular genetic variation in grassland plants. Both levels of biodiversity will be assessed in early successional in brown coal sites and ancient natural grasslands. We test the hypothesis that a correlation between genetic and species diversity is conditional on long term stable habitat conditions. We will also apply a landscape genetic approach to address the influence of landscape structure for genetic and species diversity. Interdisciplinary cooperation with external

partners is another central part of the project because the results will be also formatted and presented for local nature conservation practice.

The department of Community Ecology is an interdisciplinary group with emphasis on biodiversity research. We focus on processes like evolution, multitrophic interactions, ecosystem functioning under the impact of various drivers like climate change, land use change or biological invasions in disciplines from molecular ecology to population biology and macroecology aiming at a scientific basis for understanding and managing biodiversity. The Molecular Ecology group focuses on conservation genetics, landscape genetics, genetics of invasive species and the relationship between genetic variation and ecosystem functioning.

The UFZ offers well-structured additional qualification opportunity for PhD students in the frame of its new Graduate School HIGRADE.

Requirements: Applicants should have a University Diploma or Master Degree in Biology, with majors in Botany, Plant Ecology and/or Population Genetics. They should be fluent in both German and English and have experience in several of the topics population genetics, community ecology, population biology, floristics, molecular biology.

The position will start 15.01.2008 and is for 2.5 years with possibility for further 0.5 years. The place of work is Halle, Germany. Salary will be according to the appropriate civil service level (TVöD-O). Women are explicitly encouraged to apply to increase their share in science and research. Physically handicapped persons will be favored if they are equally qualified.

For further information please contact (see also www.ufz.de): Dr. Walter Durka, Phone: +49 (0)345/558 5314, e-mail: walter.durka@ufz.de

Applications with curriculum vitae and certificates should be send till 30.10.2007 under the code digit 104/2007 and the position number to the Personnel department of the Helmholtz-Centre of Environmental Research P.O. box 500136, D-04318 Leipzig, Germany or by E-Mail to martin.schroeder@ufz.de <<mailto:martin.schroeder@ufz.de>>. Further positions are offered under www.ufz.de. German Text:

Doktorandenstelle Populationsgenetik von Pflanzen

Aufgabe des Helmholtz-Zentrums für Umweltforschung - UFZ mit seinen Standorten in Leipzig, Halle und Magdeburg ist es, die komplexen Wechselwirkungen zwischen Mensch und Umwelt in genutzten und gestörten Landschaften zu erforschen. Vom UFZ entwickelte Konzepte und Verfahren sollen dazu beitra-

gen, die natürlichen Lebensgrundlagen für die nachfolgenden Generationen zu sichern.

Im Department Bioökologie ist ab dem 15.1.2008 eine befristete Stelle eines Doktoranden (m/w) im Bereich Populationsgenetik von Pflanzen zu besetzen.

Das Ministerium für Bildung und Forschung (BMBF) fördert im Rahmen des BIOLOG Programmes das Projekt SUBICON, in dem die natürliche Sukzession und Landnutzungsveränderungen in ehemaligen Braunkohle Tagebauen untersucht wird. Ziel der aus- geschriebenen Arbeit ist es, in Graslandgesellschaften die Vielfalt an Pflanzenarten und deren genetische Vielfalt parallel zu untersuchen. Beide Ebenen der Diversität werden sowohl in frühen sukzessionalen Habitaten in Tagebauen und in alten Trockenrasen analysiert. Wir testen die Hypothese, dass eine Korrelation zwischen genetischer und Artendiversität abhängt von langfristig

— / —

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>

IowaState EvoDevo

Ph.D. Graduate Assistantship, Evolutionary Developmental Biology at Iowa State University

A graduate research assistantship is available for Fall 2008 to support a Ph.D. student interested in studying the evolution of developmental mechanisms. Our lab is using the scallop, a novel molluscan model, to study the evolution of the eye. Ongoing and future projects aimed at understanding the evolution of the eye and the development of the nervous system in scallops include laboratory and field experiments. Ultimately, we wish to understand how genetic and developmental mechanisms underlying structural complexity evolve. The position will be located at Iowa State University in the laboratory of Dr. Jeanne Serb (<http://www.eob.iastate.edu/faculty/profiles/SerbJ/SerbJ.html>)

Applicants should be enthusiastic and capable of working independently. Prior experience with DNA and RNA extraction, PCR, in situ hybridization, and/or DNA sequencing is preferred. The successful candidate

will play a significant role in developing his/her research project.

All prospective students are encouraged to contact Dr. Jeanne Serb via e-mail (serb@iastate.edu). Please include a curriculum vitae, a one-page statement of research interests and relevant experience, and the names and email addresses of three references.

Applicants should apply to the Ecology and Evolutionary Biology (EEB) graduate program (<http://www.grad-college.iastate.edu/EEB/>) through the department of Ecology, Evolution and Organismal Biology at Iowa State University. For Fall 2008 admittance, formal graduate applications should be received by 1 January 2008.

–

Jeanne M. Serb Assistant Professor

Department of Ecology, Evolution, and Organismal Biology 245 Bessey Iowa State University Ames, IA 50011 USA

tel: 515-294-7479; FAX: 515-294-1337 serb@iastate.edu
<http://www.eob.iastate.edu/faculty/profiles/SerbJ/-SerbJ.html>

LaurentianU AmphibianEvolution

Amphibian Emerging Infectious Diseases

I am seeking a highly motivated and independent person to fill an MSc position in my lab. The research will be in the scope of Emergent Infectious Diseases in Amphibians (Ranavirus & Chytrid fungus). These two diseases are causing mass die-offs in amphibian populations but the ecology, dynamics and effects of the pathogens are still largely unknown. A combination of field work and experiment could be arranged depending on the student interests. The candidate is encouraged to create and develop his/her own project in the mentioned area. Good aptitude for fieldwork, molecular ecology skills and especially population genetics basics are expected as well as good communication skills.

A minimum stipend (\$15,000 CAD) will be provided as well as opportunities for additional scholarships.

How to apply: Please send a letter of intent, CV, 2 references, and unofficial transcript to:

Dr. David Lesbarrères Assistant Professor & Graduate Coordinator

http://biology.laurentian.ca/Laurentian/Home/Departments/Biology/Faculty_and_Staff/Professors/-lesbarreres/lesbarreres.htm Genetic & Ecology of Amphibians Research Group (GEARG) Department of Biology - Laurentian University 935 Ramsey Lake Road, Sudbury, Ontario P3E 2C6, Canada phone: 705-675-1151 ext. 2275 Fax: 705-675-4859

Starting date: January 01, 2008

dlesbarreres@laurentian.ca

– “It takes all the running you can do to keep in the same place.”

Dr. David Lesbarrères Assistant Professor & Graduate Coordinator

Genetic & Ecology of Amphibians Research Group (GEARG) Department of Biology - Laurentian University

http://biology.laurentian.ca/Laurentian/Home/Departments/Biology/Faculty_and_Staff/Professors/-lesbarreres/lesbarreres.htm 935 Ramsey Lake Road, Sudbury, Ontario P3E 2C6, Canada phone: 705-675-1151 ext. 2275 Fax: 705-675-4859

dlesbarreres@laurentian.ca

LehighU InsectEvolGenetics

Ph.D. Opportunities in Evolutionary Genetics of Insects

Mullen Laboratory, Department of Biological Sciences, Lehigh University

We anticipate several academic openings (Fall '08) for highly motivated graduate students interested in pursuing Ph.D. research related to the evolutionary biology of insects. Current research in the lab focuses on understanding the genetic basis of adaptation and mimicry in butterflies. In addition, opportunities exist to investigate 1) geographic patterns of genetic variation across butterfly hybrid zones, 2) sexual isolation and hybridization in damselflies, and 3) elytra color pattern genetics in lady beetles.

Funding is guaranteed via a combination of teaching assistantships and research assistantships for highly qualified candidates. Admission is through the Integrative Biology graduate program (deadline, January 1st, 2008). However, all prospective students are encouraged to contact Dr. Sean P. Mullen directly via email

(sem307@lehigh.edu) and to complete the graduate admission application online at

<http://www.lehigh.edu/~inbios/grad/app1.htm> Additional information about Lehigh's Biology department and the graduate program are available at: <http://www.lehigh.edu/~inbios/> Sean P. Mullen, Ph.D. Assistant Professor of Evolutionary Genetics Department of Biological Sciences 111 Research Drive, D216 Iacocca Hall Lehigh University

610.758.5569

sem307@lehigh.edu

<http://www.lehigh.edu/~inbios/faculty/mullen.html>

Lisbon 1yr SexDetermination

Thank you!

Graduate Student Grant in Lisbon The Centro de Biologia Ambiental (Faculty of Sciences - University of Lisbon) has a one year Graduate Student Research Grant, available in the frame of the FCT/FEDER project "PTDC/BIA-BDE/65586/2006 "The genetic control of sex determination in the *Squalius alburnoides* hybrid complex: new insights into the effects of hybridisation and genome interaction". The successful candidate will have a Graduation in Biology or Biochemistry, with research interests in genetics and/or development. Furthermore a very good English background and a strong commitment to timely publication of results will be essential.

Informal inquiries may be made to Prof Manuela Coelho at the email address: mmcoelho@fc.ul.pt. Application is by CV with details of one referee to the same address.

The deadline for applications is the 28 October 2007. Please note this grant is available only to Portuguese citizens. Thank you for your attention,

Manuela Coelho (Associate Professor) mmcoelho@fc.ul.pt Faculdade de Ciências da Universidade de Lisboa 1749-016 Lisboa tel. 217500000 ext. 24319 fax. 217500028.

Maria Manuela Coelho <mmcoelho@fc.ul.pt>

McGillU PlantEvolution

Ph.D. Position at McGill University, Montreal

I am seeking a motivated and independent student to study the evolution and breakdown of self-incompatibility in the plant genus *Leavenworthia*. This work involves a combination of lab and field studies, and is part of a 5-year NSERC-funded study. Molecular lab experience is an asset. The Biology Department at McGill University is a vibrant and interactive group of staff, graduate students, and post-docs with expertise in all aspects of ecology, evolution, and conservation biology. Montreal is a safe, bilingual, and cosmopolitan city. This position is open to students from both inside and outside of Canada. Please contact me for details at:

Daniel.Schoen@McGill.CA. Include in your e-mail message a short description of your educational background and qualifications. I will be happy to provide details about formal application procedures for the graduate program at McGill.

daniel.schoen@mcgill.ca

NorthCarolinaStateU QuantGenetics

Please post to the Graduate Student Positions Section of EvolDir:

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

Our program offers: * 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.

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.

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

Christina Grozinger: Applied insect ecology and pest management genomics.

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*.

W. Owen McMillan: Population genetics, evolution, and conservation biology.

Dahlia Nielsen: Developing techniques for fine-scale genetic mapping in human populations.

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

Jeffrey Thorne: Statistical methods for analysis of sequence data.

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

For information and application information, 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 Douglas Pederson, Ph.D. Assistant Department Head Department of Genetics North Carolina State University Raleigh, NC 27695-7614 Tel: 919-515-4248 Fax: 919-515-3355 julie_pederson@ncsu.edu

Julie Pederson <jdpeders@ncsu.edu>

OldDominionU Euteleost TreeOfLife

Postdoctoral and graduate research assistantship opportunities available - Euteleost Tree of Life - Old Dominion University, University of Florida, University of Nebraska and University of Oklahoma.

The Euteleost Tree of Life project is seeking qualified candidates to fill several postdoctoral fellowships and graduate assistantships to work on data generation, analyses, bioinformatics and other facets of a large-scale phylogenetic study of fishes. Opportunities are available immediately and over the next three years at Old Dominion University, University of Florida, University of Nebraska at Omaha and University of Oklahoma. Please contact Kent Carpenter (kcarpent@odu.edu - Old Dominion), Andres Lopez (andresl@ufl.edu - Florida), Guoqing Lu (glu3@mail.unomaha.edu - Nebraska) or Richard Broughton (rbroughton@ou.edu - Oklahoma) for detailed information on the positions available at each of these project sites. Candidates with a background and/or strong interest in ichthyology or bioinformatics are encouraged to inquire.

andresl@ufl.edu andresl@ufl.edu

Manolis Dermitzakis <md4@sanger.ac.uk>

SangerInstitute Genomics

Graduate Studies At The Sanger Institute: Four Year PhD Programme DEADLINE: Wednesday 12th December 2007 MORE DETAILS: <http://www.sanger.ac.uk/careers/phd/> This is a great opportunity for students interested to do a PhD at an internationally leading genome center.

The Wellcome Trust Sanger Institute PhD programme provides research opportunities and training for graduate students who wish to study for a 4-year PhD degree registered at the University of Cambridge commencing in October 2008. To see the type of research undertaken at the Wellcome Trust Sanger Institute please visit our Faculty Members pages (<http://www.sanger.ac.uk/Teams/faculty/>).

In the last few years the Sanger Institute has hired faculty and developed programs in population genetics and evolutionary biology of humans and pathogens. There are great opportunities to participate and interact with internationally leading colleagues from Sanger and other well known academic institutions.

Academic Requirements Candidates are expected to hold, or obtain, a 1st or an upper 2nd class degree or equivalent overseas qualifications. GRE results may be required from overseas applicants. The studentships will be allocated on a competitive basis after the Open Day and students who gain a place in our PhD programme will obtain full financial support (see: <http://www.sanger.ac.uk/careers/phd/financialsupport.shtml>) including tuition regardless of nationality. Sanger studentships are extremely competitive, and we strongly encourage you to seek your own funding.

Emmanouil (Manolis) Dermitzakis, PhD Investigator Population and Comparative Genomics The Wellcome Trust Sanger Institute Wellcome Trust Genome Campus Hinxton, Cambridge CB10 1SA UK e-mail: md4@sanger.ac.uk Tel: +44 (0)1223 494866 Fax: +44 (0)1223 494919 URL: <http://www.sanger.ac.uk/Teams/Team16/> – The Wellcome Trust Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

UAKron EvolReproductiveBiol

Ph.D. Position in INTEGRATED BIOSCIENCE University of AKRON

Applicants are invited for a new Ph.D. position in Integrated Bioscience at the University of Akron. We seek a student interested in combining paleontology with evolutionary reproductive biology to assess the long-term evolution of breeding systems in “conchostracan” crustaceans (“clam shrimp”). We have a unique set of conchostracan specimens that allow us to associate environment with breeding system within conchostraca over evolutionary time. Such a long-term association would be exceptional within breeding system evolutionary studies. The ideal applicant would have some background in both paleontology and evolutionary biology or a background in only one area but be eager to learn the alternate area of study. The PhD position comes with full tuition remission plus a stipend of \$20,000 per year for a total of 5 years. Applications are being sought for positions beginning in August 2008. For more information, please contact Dr. Steve Weeks (scw@uakron.edu; 330-972-7156) or Dr. Lisa Park (mlepark@uakron.edu; 330-972-7633), or visit our IB PhD website at <http://www.uakron.edu/id/ib/>.

Stephen C. Weeks, Ph.D. Integrated Bioscience Program Department of Biology The University of Akron Akron, OH 44325-3908 330-972-8445 (FAX) 330-972-7156 (Voice) scw@uakron.edu <http://www3.uakron.edu/biology/hmpg1.html>

scw@uakron.edu scw@uakron.edu

UAKron InvasiveSpeciesEvolution

Research Assistantship Available for PhD Student Studying Bio-control of Invasive Species. The Department of Biology at The University of Akron has a 5-year research assistantship available for a PhD student interested in helping to develop a biological control system to combat the invasive Eurasian watermilfoil. The student will work closely with research scientists at a

local biomonitoring company (Enviroscience, Inc.) to continue to study a naturally-occurring herbivorous insect (the milfoil weevil, *Euhrychiopsis lecontei*) that has proven to be effective in controlling this invasive plant. The student will be part of The University of Akron's Integrated Bioscience program and will receive a stipend of \$20,000 per year plus tuition remission. The Biology Department comprises 21 full-time faculty members, ~35 Master's students, 11 PhD students, and ~700 undergraduates. Research facilities include a live animal research center, a 400 acre field station, and greenhouse. Many of our graduates have successful jobs in government agencies, research institutions, biotech companies and academia.

Our faculty emphasize collaborative and integrative research, which is reflected in our new PhD program in Integrated Bioscience. This PhD program is the first in the country; we facilitate collaborative research across diverse disciplines (e.g., biology, chemistry, engineering, etc.) by bringing bioscience students together at the very inception of their PhD degrees. Such an integrated approach will be needed to tackle the emerging bioscience questions of the 21st century, and we are proud to be the only US institution to provide this opportunity to interested students. Akron is a great place to live, with a high quality of life. There are abundant natural amenities, including nearby metroparks and the Cuyahoga Valley National Park. There is also ready access to many diverse cultural events in Akron and nearby Cleveland, including sports, several symphony orchestras, excellent museums, and one of the nation's premier amphitheatres, Blossom Music Center, which attracts many national concerts. For more information about this research assistantship, please see <http://www3.uakron.edu/biology/biocontrol.htm>, or contact Dr. Stephen C. Weeks (scw@uakron.edu; <http://www3.uakron.edu/biology/hmpg1.html>) or Dr. Randy Mitchell (rjm@uakron.edu; <http://www3.uakron.edu/biology/mitchell/>). For more information on the Integrated Bioscience program, please visit the following web site: <http://www.uakron.edu/id/ib/cmp3> "Mitchell,Randall J" <rjm2@uakron.edu>

UAlaska SelfIncompatibility

We currently have NSF funding for an MS or PhD level student to work on the evolution of self-incompatibility genes in poppies (*Papaveraceae*) at the University of Alaska.

The ideal student for this project will either have molecular lab skills (such as DNA sequencing), and/or data analysis skills (math, computer, coalescence theory). However, all high-quality students with an interest in evolutionary genetics are encouraged to apply for Spring or Fall admission.

Alaska offers unparalleled beauty, untouched landscapes, and unique research opportunities, as well as an extreme climate and unique culture. Research at UA includes topics such as adaptations to our extreme climate, the unique evolutionary history of organisms influenced by glacial cycles and migrations from both North American and Asia, climate change, how interactions among species influence community composition.

The goal of the project is to sequence and identify self-incompatibility alleles from the genus *Papaver*, and investigate the patterns of molecular evolution at this locus. Students will also be encouraged to develop their own interests in areas related to this project. For instance, investigating the number of self-incompatibility alleles and mate availability in *Papaver* species with different evolutionary histories. There are several rare (federally listed) poppy species in Alaska which are not found elsewhere in North America, and there is likely to be interesting conservation work that can be done on these species, such as investigating their self-incompatibility status and ability to find mates, levels of genetic diversity, and their divergence from eastern Russian populations, and relationships to other Beringian poppies. There are also opportunities for developing theory on the evolution of self-incompatibility genes.

Please contact: Diana Wolf ffdew2@uaf.edu <http://www.faculty.uaf.edu/ffdew2/> and/or

Naoki Takebayashi ffnt@uaf.edu <http://www.faculty.uaf.edu/ffnt/> More information about research at UAF can be found: <http://www.bw.uaf.edu/> <http://www.iab.uaf.edu/> <http://www.iab.uaf.edu/-research.php> ffdew2@uaf.edu ffdew2@uaf.edu

UAlberta Insect cons genetics

UAlberta_insect.cons.genetics

A Ph.D. opportunity is available for research on the threatened Mormon metalmark (*Apodemia mormo*) butterfly population in and around Grasslands National Park, Saskatchewan, Canada. The successful

candidate would study at the University of Alberta, Edmonton, Alberta. Fieldwork would take place in southern Saskatchewan and possibly Alberta. Working conditions are challenging and A. mormo field sites are hot, dry, remote, and typically occur in badlands. The ideal candidate would have considerable experience working in an arid prairie or desert environment as well as a background in conservation genetics and insect biodiversity/systematics. A significant portion of this research is funded by Parks Canada and teaching assistantships are available depending on the applicant's GPA. The successful candidate will start in either January or May 2008. The applicant must meet or exceed the entrance requirements for The University of Alberta, Department of Biological Sciences, which can be viewed at: <http://www.biology.ualberta.ca/-programs/graduate/prospective/?PageE11> Interested individuals should send a CV and a copy of any publications to:

Shelley Pruss, Ph.D., Species at Risk Recovery Specialist Resource Conservation, Western and Northern Service Centre, Parks Canada Agency 13th Floor, 635 - 8th Ave., S.W., Calgary, Alberta, T2P 3M3 Ph: (403) 292-5451, Fax: (403) 292-4404, Email: Shelley.Pruss@pc.gc.ca

or

Dr. Felix Sperling, Professor, Department of Biological Sciences CW405a Biological Sciences Centre, University of Alberta Edmonton, Alberta, T6G 2E9, Canada Ph: (780) 492-3991, Email: felix.sperling@ualberta.ca Felix Sperling <felix.sperling@ualberta.ca>

UAntwerp RatSkullEvolution

Hi,

We have an open position for a graduate student working on the role of genetics and developmental homeostasis in the development of the skull of *Mastomys natalensis* (multimammate rat). The principal aim is to understand the adaptive basis of morphological variation observed in the field when rats are encountered with different types of food (in either the wet or dry season). The work will involve qualitative genetic, ecological and functional morphological aspects. The position is initially for one year and will be extended for another 2 years after positive evaluation. In case of interest, please send CV to stefan.vandongen@ua.ac.be. The successful candidate is expected to start as soon as

possible.

Stefan

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

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

stefan.vandongen@ua.ac.be
fan.vandongen@ua.ac.be

ste-

UArkansas EvolBiology

Doctoral Fellowships - University of Arkansas

The Department of Biological Sciences at the University of Arkansas is actively recruiting Distinguished Doctoral Fellows and Doctoral Academy Fellows to begin graduate work in August 2008. The Distinguished Fellowships have a 12-month stipend of \$34,500, and the Doctoral Academy Fellowships have a 12-month stipend of \$24,500. Both are available for up to 4 years of support based on satisfactory progress. Fellowships will require research and/or teaching depending upon the major professor chosen. In addition, fellowships include a full waiver of tuition, 60% of health insurance, and most other fees. Outstanding students from all biological disciplines are encouraged to apply. Selection is based on undergraduate GPA, GRE scores, letters of recommendation, and undergraduate (B.S.) research experience or graduate (M.S.) research experience (see <http://biology.uark.edu/1255.htm> for criteria). Applicants should contact faculty members in the Department of Biological Sciences whose research they may be interested in directly at <http://biology.uark.edu/>. Applicants must have a faculty sponsor to enter the graduate program. Students may apply for Doctoral Academy Fellowships at any time. Doctoral Distinguished Fellowships have a deadline of 15 January 2008. Contact Dr. Kimberly G. Smith (kgsmith@uark.edu), Chair, Department of Biological Sciences, for any further information or questions.

Please circulate to colleagues and students.

csagers@uark.edu

UBern BirdFluEvolution

PhD position, CMPG, University of Bern, Switzerland

Genetic analysis of migration in bird flu vectors

We are looking for a highly motivated PhD candidate to work on the genetic population structure of two potential vectors of avian influenza - the tufted duck (*Aythya fuligula*) and the common pochard (*Aythya ferina*). The project aims at determining the levels of genetic differentiation among breeding populations throughout the range of the two species and inferring the origin of ducks on European and Asian wintering grounds. The first part of the project will include fieldwork for sample collection and will involve travel in Europe and Asia. The project will be mostly lab-based and involve sequencing and microsatellite genotyping.

We are seeking an independent candidate with excellent organizational skills and the willingness to travel and carry out field work under potentially difficult conditions. Good knowledge of written and spoken English is essential, some knowledge of Russian (or related languages) would be a plus. The ideal candidate has a background in evolutionary biology, especially population genetics and phylogeography, and experience with molecular lab work and data analysis. A degree equivalent to a biology diploma or M.Sc. is required.

The student will be supervised by Gerald Heckel and Irene Keller. We offer a stimulating research environment in the in the Computational and Molecular Population Genetics lab (CMPG; head: Laurent Excoffier) with excellent facilities for laboratory work and computational analyses. The position is funded for three years, and the anticipated starting date is December 1st 2007 or soon thereafter. For informal inquiries, please contact gerald.heckel@zoo.unibe.ch.

Information on the research group, the University of Bern, or life in Bern can be obtained from <http://cmpg.unibe.ch/> and <http://bern.ch/>.

Please send your application including CV, list of publications (if available), a letter outlining your past research and motivation for this position (max. 2 pages), and contact details of 2-3 referees in a single pdf file to gerald.heckel@zoo.unibe.ch.

This is a re-advertisement. There is no need to re-apply if you have sent your application already.

Dr. Gerald Heckel Computational and Molecular Population Genetics (CMPG) Zoologisches Institut Universitaet Bern Baltzerstr. 6 CH-3012 Bern Switzerland Tel.: +41 (0)31 631 30 29 Fax: +41 (0)31 631 31 88 Email: gerald.heckel@zoo.unibe.ch <http://cmpg.unibe.ch/people/heckel.htm> gerald.heckel@zoo.unibe.ch

UBritishColumbia Okanagan ConsGenetics

Two Ph.D. assistantships are available in the laboratories of Dr. Michael Russello and Dr. Karen Hodges at the University of British Columbia Okanagan (UBC O) in the areas of ecological and conservation genetics starting May or September 2008.

We are recruiting two Ph.D. students interested in joining an international team studying local adaptation at range peripheries in four at-risk amphibian and reptile species. This work will involve characterizing the population genetic structure and phylogeography of Great Basin Gophersnakes (*Pituophis catenifer deserticola*), Western rattlesnakes (*Crotalus oreganus*), Great Basin spadefoots (*Spea intermontana*) and Tiger salamanders (*Ambystoma tigrinum*), with a focus on comparing population structures in the northern periphery of their range (south-central B.C.) relative to their range core (in the western U.S.). The successful candidates will build upon an existing collection of samples and will conduct additional field sampling. The people in these positions will work closely with partners in both Canadian and U.S. agencies, as well as the Recovery Team for Reptiles and Amphibians of Interior B.C. These positions are subject to funding.

Desired qualifications include: M.Sc. in a biological discipline, experience with molecular laboratory techniques and/or experience conducting fieldwork on amphibians and reptiles. Experience with GIS an asset.

If you are interested in this Ph.D. opportunity, please send a letter of interest and a C.V. as a pdf to michael.russello@ubc.ca.

For more information regarding these positions, contact Dr. Michael Russello (michael.russello@ubc.ca) Dr. Karen Hodges (karen.hodges@ubc.ca)

For additional information about our Biology graduate program at UBC O, application procedures and application deadlines, please visit: <http://web.ubc.ca/>

okanagan/biophgeo/biograd.html <http://web.ubc.ca/-okanagan/gradstudies/advising/biology.html> Michael Russello Assistant Professor, Biology Unit of Biology and Physical Geography University of British Columbia Okanagan Kelowna, British Columbia Canada <http://web.ubc.ca/okanagan/biophgeo/-faculty/mrussello.html> michael.russello@ubc.ca

Uillinois 2 ParasitoidWaspSystematics

2 Graduate Research Assistantships Available in Parasitoid Hymenoptera Systematics, University of Illinois

Two graduate student research assistantships are available in the Department of Entomology at the University of Illinois, Urbana-Champaign. Each of the assistantships is associated with NSF-funded research on braconid parasitoid wasps in the laboratory of Dr. James Whitfield (<http://www.life.uiuc.edu/-whitfield>). Successful candidates will be expected to apply for admission to the Department of Entomology (information on admission can be found on the Department's website: <http://www.life.uiuc.edu/-entomology/index.html>). The Department of Entomology has recently been ranked #1 nationally among Entomology graduate programs, and the students will join a leading laboratory in insect molecular systematics with close ties to other top insect systematics labs both on campus and at the Illinois Natural History Survey.

Molecular systematics of the hyperdiverse genus *Heterospilus*

Funded by NSF DEB 0717365, this 4-year project encompasses a multigene molecular phylogeny of the speciose braconid wasp genus *Heterospilus*. Under the direction of Dr. Whitfield, the student will extract, amplify and sequence each of 3 genes from roughly 200 species of wasp, and conduct molecular phylogenetic analyses to test monophyly of the genus worldwide, and to explore relationships within the genus, especially for the neotropical fauna. Parallel to this work, collaborator Paul Marsh (http://www.life.uiuc.edu/whitfield/-Paul_Marsh.html) and a postdoctoral associate (position currently being advertised) will conduct a taxonomic revision of the genus, and produce online interactive identification keys to the 200+ species in Costa Rica. Some experience in insect systematics, molecular phylogenetics and/or phylogenetic analysis methods is highly desirable for the graduate student part of the

project. The position is available as soon as Summer 2008. Application should be at the Ph. D. level.

Braconid caterpillar parasitoids in the eastern Andes of Ecuador

Funded by NSF DEB 0717402, this long-term project (<http://www.tulane.edu/~ldyer/lacat/-ecuador/index.htm>) seeks to characterize the fauna of caterpillars and their parasitoids in montane wet forest on the eastern slope of the Andes at Yanayacu Biological Station (<http://www.yanayacu.org/>). The graduate student will help train parataxonomists in Ecuador, help sort and identify parasitoids reared from the caterpillars, and conduct taxonomic research on a group of braconid parasitoids that are recovered by the project. Considerable interaction with other collaborating taxonomists and ecologists is expected. Strong interest in and some experience with insect descriptive taxonomy and tropical biology are highly desirable. Knowledge of conversational Spanish desirable but not essential. Fieldwork in montane Ecuador can be physically demanding. This position is available as soon as January 2008. Current funding is for two years but renewal expected. Applications at either the M. S. or Ph. D. levels accepted.

Interested candidates should submit the following (preferably by email) to Dr. James Whitfield (jwhitfie@life.uiuc.edu):

- 1) A letter stating why you want to apply for the position, and why you think you would be the best person for this research. Please also include a broader perspective on your career and graduate school objectives.
- 2) A current curriculum vitae, including any previous research projects you have been involved with, honors, awards, publications and presentations, and your overall GPA.
- 3) A list of relevant field, laboratory and analytical techniques with which you have experience.
- 4) Names and contact information (email, phone, address) for at least 3 people who can supply reference letters.

We will begin assessing applications during mid November, and will notify top candidates shortly thereafter, in time to complete applications to the department graduate program.

jwhitfie@life.uiuc.edu

UllinoisUrbanaChampaign EvolAnthro

Graduate Student Opportunities

Biological Anthropology Program at the University of Illinois Urbana- Champaign

The biological anthropology program in the Department of Anthropology at the University of Illinois Urbana-Champaign strives to apply the latest theoretical and technological tools to answering questions about evolution and the human condition. With expertise in developmental biology, behavior and socio-ecology, evolutionary genomics, ancient DNA, functional morphology, paleontology, epidemiology, phenotypic integration, and comparative biology, faculty and students at UIUC are stretching the boundaries of the field, establishing novel avenues for collaborative research, and revisiting classic questions from new perspectives. Graduate students are offered competitive funding packages and the opportunity for comprehensive training in anatomy, genetics, and primate evolutionary biology. All this, combined with the exceptional scholarly community in Urbana-Champaign makes UIUC biological anthropology a premier place to begin a scholarly career.

Please visit our website at <http://www.anthro.uiuc.edu/departement/bio/bio.htm>

Graduate Applications are due on 12/01/07.

Facilities and Resources

The infrastructure and resources in the biological anthropology program support an integrative approach to investigate a research problem. Fully equipped facilities in the Anthropology Department include the functional morphology laboratory, molecular anthropology and genomics laboratory, ancient DNA laboratory, endocrinology laboratory, radiocarbon and isotope laboratory, phenotypic integration laboratory, Center for Disease Emergence and Ecosystem Health, and field sites in Africa, Central, and South America. In combination with campus-wide resources such as the Institute for Genomic Biology, Beckman Institute for Advanced Science and Technology, R. J. Carver Biotechnology Center, Environmental Isotope Paleobiogeochemistry laboratory and Center for Supercomputing, the biological anthropology program at UIUC is creating an exciting academic environment that prepares doctoral

students to conduct creative and innovative research as part of an outstanding career.

Ripan Malhi <malhi@uiuc.edu>

ULausanne EvolBiol

PhD fellowships in evolutionary biology

The University of Lausanne (Switzerland) offers PhD fellowships in broadly defined life sciences (starting in autumn 2008 and available for 3-4 years). Several evolutionary biology research groups from the Department of Ecology and Evolution are affiliated with this program, and we strongly encourage qualified applicants to apply. Information about the program can be found under <http://www.unil.ch/fbm/page28381.html>. Candidates are encouraged to contact potential supervisors listed on that website for project details. The deadline for application is December 15, 2007.

The Department of Ecology and Evolution (<http://www.unil.ch/dee/page5090.html>) a highly interactive international research and study environment, with 23 research groups addressing a variety of questions in ecology, evolution, behavior and conservation biology. Lausanne is a medium-sized city beautifully located on the sunny shore of Lake Geneva. It offers an exciting multicultural environment, while the proximity of the Alps and Jura mountains opens countless possibilities for outdoor activities.

– Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Biophore CH 1015 Lausanne, Switzerland tadeusz.kawecki@unil.ch

Tadeusz.Kawecki@unil.ch Tadeusz.Kawecki@unil.ch

ULeuven PlantSystematics

PhD student in Plant Biology

The Laboratory of Plant Systematics is part of the Department of Biology at the K.U.Leuven (Belgium). Our lab has a strong expertise in plant systematics, including flower morphology and ontogeny, evodevo, palynology, molecular systematics, wood and seed anatomy.

Our team include three postdocs, 12 PhD students and two lab technicians.

We now seek a PhD student to build complementary expertise in bioinformatics and mathematical modelling.

Project: Compilation, informatisation and analysis of morphological and anatomical data

What is the evolutionary base for morphological differences between plants? How do these differences emerge during development and how are they genetically determined? To date it is hard to answer these questions since we do not have the ICT-tools to integrate developmental genetics and comparative morphology/anatomy. We want to tackle this problem by developing a database with morphological characters for a large group of flowering plants (basal asterids). This database will fill three needs: (1) morphological observations could be linked to mutant phenotypes using a common terminology (ontology); (2) mathematical models that explain plant development can be tested; (3) morphological data become accessible for statistic and evolutionary analyses. In a first phase, a databank will be designed based on an existing database for animal-data, but adapted to the specific terminology of flowering plants. In a second phase, available observations and data from literature are loaded. In a last phase specific hypotheses and models can be tested based on the data.

Qualification requirements: Applicants should have a MSc or equivalent in Biology, Bioinformatics or Bio-engineering with a strong interest in the natural world and programming. Funding is provided for 2 years (100%) and the candidate will be encouraged to enter a doctoral program. The position is open from January 1st, 2008.

For further information, please visit the lab website at www.kuleuven.be/bio/sys or contact Dr. Suzy Huysmans at suzy.huysmans@bio.kuleuven.be or Dr. Koen Geuten koen.geuten@bio.kuleuven.be.

The application should contain a CV, documentations of grades and exams, a list of two referees with e-mail info, and a description of motivation and experience relevant to the research project. Please submit your application to Dr. Suzy Huysmans (suzy.huysmans@bio.kuleuven.be) before October 20st, 2007.

Koen Geuten <koen.geuten@yale.edu>

UMaryland BEES

University of Maryland BEES Graduate Program*

The interdisciplinary graduate program in Behavior, Ecology, Evolution and Systematics (BEES) at University of Maryland is looking for exceptional students to enter the Ph.D. program for the academic year 2008-2009. The BEES program consists of over 50 faculty members. At University of Maryland the participating departments include: Animal and Avian Sciences, Anthropology, Biology, Environmental Science and Technology, Cell Biology and Molecular Genetics, Computer Sciences, Entomology, Geology, and Plant Science and Landscape Architecture. We also have adjunct faculty from a number of affiliated institutions from the surrounding DC metropolitan area including the Smithsonian Institute, National Cancer Institute, UM Center for Advanced Research in Biotechnology (UMBI), and USDA.

We offer Darwin Fellowships to outstanding candidates and also have a jointly funded graduate fellowship program with the Smithsonian for students planning on being co-advised by a SI adjunct faculty member along with a BEES UM faculty member. Research Areas of Smithsonian adjunct faculty members interested in co-advising students include Paleobiology, Genetics, and Molecular Systematics.

As a long-term member of the Organization for Tropical Studies (OTS) we encourage and fund participation by our BEES graduate students in these field courses.

Please see our BEES program web site for more information: <http://bees.umd.edu> Faculty accepting graduate students for the 2008-2009 academic year are listed here: http://www.chemlife.umd.edu/grad/-bees/fac_accepting.html Please feel free to contact us if you have any questions at: beesoffice@umd.edu

Michele R. Dudash Associate Professor of Biology Director of the Graduate Program in Behavior, Ecology, Evolution and Systematics

Dudash lab web page: <http://www.life.umd.edu/-biology/dudashlab/dudashlabpage.html> BEES program web page: <http://bees.umd.edu> Department of Biology, Room 3202 Biology Psychology Building University of Maryland College Park, MD 20742

Office: 301-405-1642 Fax: 301-314-9358 Email:

dash@umd.edu

Mailing Address: Department of Biology 1210 Biology-Psychology Bldg. #144 University of Maryland College Park, MD 20742

Summer Research Address: Mountain Lake Biological Station 240 Salt Pond Road Pembroke, VA 24136

Lab phone at MLBS is 540-626-5257 Fax at MLBS is 540-626-5229

“Peace and joy of having known them, with the sorrow of the loss less debilitating”

Michele Dudash <mdudash@umd.edu>

UmeaU PlantMolEvol

Ph.D. Position at Umeå Plant Science Centre, Umeå University, Sweden

I am seeking a motivated and independent student to study the molecular evolution of plant defense genes in *Populus tremula*. This work involves a combination of lab and field studies, and is part of a study funded by the Swedish Research Council. The position requires a B.Sc. degree (or equivalent) in Biology or another relevant area of science, and preferentially experience in, and enthusiasm for, population genetics and evolutionary biology. Knowledge of standard molecular techniques (PCR, DNA sequencing), and/or mathematics/statistics is considered highly advantageous.

The positions carry a salary according to a current level for graduate students at the University of Umeå. Entry level salary is currently c. 20k SEK per month (equivalent to approx. 2100 Euro). Applications should contain a CV, a cover letter with a brief statement of research interest, and contact details (names, e-mail and postal addresses) of two professional references. Review of applications will start October 15, and will continue until the position is filled. For further information please contact Dr. Pär Ingvarsson (par.ingvarsson@emg.umu.se)

Umeå Plant Science Centre is one of the world leading centers for research in forest biotechnology/genetics with a lot of international collaborators and offers technical platforms of international top-class quality. For more information please www.upsc.se pelle@wallace.emg.umu.se

UNevadaReno EvolEcol

Ecology, Evolution and Conservation Biology

<http://eeeb.unr.edu>

University of Nevada, Reno

The Ecology, Evolution and Conservation Biology Graduate Group (EECB) at the University of Nevada, Reno (UNR) is seeking outstanding applicants for the 2008-2009 academic year. EECB is an interdisciplinary program with members in diverse academic departments including Biology, Biochemistry, Geography and Natural Resources and Environmental Sciences. The graduate group boasts an approximately 40-member faculty that is highly active in research.

The EECB program is particularly strong in ecosystem ecology, population ecology, wildlife ecology and behavioral and evolutionary ecology. EECB was also recently ranked as a top-25 research program in conservation biology. Numerous faculty are also associated with the Desert Research Institute (<http://www.dri.edu>), conducting research throughout the deserts of North America and elsewhere around the globe.

UNR is located along the eastern slope of the Sierra Nevada, in close proximity to both desert and montane field sites, allowing students to pursue diverse research interests. Competitive teaching assistantships or research assistantships are typically available for students in their faculty advisor's home department.

More information and a complete list of faculty members can be found at the EECB program website (<http://eeeb.unr.edu>). Please contact faculty members you are interested in working with regarding application.

Ned Dochtermann <dochterm@unr.nevada.edu>

USouthCarolina CompEvolBiol

I am seeking a graduate student who is interested in computational evolutionary biology and comparative genomics. A competitive stipend is available.

Please respond by e-mail or postal mail and include a

CV, brief statement of research interests, and contact information for two academic references.

Mailing address: Dr. Robert Friedman 700 Sumter St.
Dept. of Biological Sciences University of South Carolina Columbia, SC 29208

Additional contact information: bobf@biol.sc.edu
<http://www.biol.sc.edu/faculty/friedman.html>
bobf@biol.sc.edu bobf@biol.sc.edu

UStAndrews Bioinformatics

Dear all,

We are seeking applicants for a PhD position at the University of St Andrews.

REGULATORY REGIONS IN THE HUMAN GENOME

Despite recent advances in genomics, our understanding of the processes regulating transcription remains poor. The project will use bioinformatic methods to predict transcription factor binding sites from sequence and microarray data. Predictions will be tested and refined by laboratory experiments. Joint-funded by the Biotechnology and Biological Sciences Research Council (BBSRC) and the Bute Medical School, University of St Andrews.

Supervisors: Dr Daniel Barker, <http://bio.st-andrews.ac.uk/staff/db60.htm> and Professor Richard Iggo, <http://medicine.st-andrews.ac.uk/staff/ri20.htm>

Further details and application forms: <http://biology.st-andrews.ac.uk/projectSummaries.aspx?psry>

Important note on funding: A successful candidate would receive funding to cover university fees and a stipend; some non-UK, EU applicants are only eligible for "fees-only" support. To be considered for financial support, applicants must meet the BBSRC residence requirements. Please see: <http://www.bbsrc.ac.uk/funding/training/eligibility.pdf> Informal enquiries: Daniel Barker, email db60@st-andrews.ac.uk

Application Deadline: 23 November 2007

Best regards,

– Daniel Barker <http://bio.st-andrews.ac.uk/staff/db60.htm> db60@st-andrews.ac.uk db60@st-andrews.ac.uk

UWindsor FishGenomicsEvol

I am looking for a PhD student to work on a project examining the adaptation of Detroit River brown bullhead to high levels of contaminants (relative to bullhead from "clean" sites). Preliminary data indicate these fish may have evolved a completely different contaminant response pathway to deal with the carcinogenic effects of PAHs etc. The project will include lots of field work, plus microarray, qRT-PCR and good old population genetics lab work. Some background would be preferable, but I can train in the technical lab stuff. I have funding for 4 years.

The projects starts immediately, so contact me ASAP (with CV, e-mail addresses of potential references, and a grade summary) if you are interested.

Cheers, Daniel

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 www.uwindsor.ca/heathresearchgroup/ dheath@uwindsor.ca

UWisconsinMadison PlantInsect

Graduate Research Assistantship Plant-Insect Interactions and Biofuel Production University of Wisconsin, Madison

A Graduate Research Assistantship (M.S. - Ph.D. or Ph.D.) is anticipated for 2008 (summer/fall) to pursue research at the interface of plant-insect interactions, evolutionary ecology, and sustainable biofuel production. This research will evaluate how genetic modifications of poplar - to enhance its potential as a biofuel feedstock - alter its susceptibility to attack by insects, and changes in costs/benefits of evolutionary adaptations for plant defense. The work will be conducted in collaboration with tree geneticists, and will focus on how specific modifications (tree architecture and chemistry) influence plant defense syndromes as well as insect damage rates and community structure. The Uni-

University of Wisconsin - Madison is the lead institution of the DOE-funded Great Lakes Bioenergy Research Center.

Candidates may elect to pursue graduate degrees in either Entomology or Zoology (Ecology).

For more information about the Lindroth research group, visit: <http://entomology.wisc.edu/~lindroth/>

Qualifications:

Highly motivated individuals with superior academic credentials and strong communication skills are encouraged to apply. Well-developed interpersonal skills are essential. Candidates must be able to work independently as well as part of a collaborative research team.

Stipend/benefits:

50% Research Assistantships currently provide a stipend of \$19,032 (12 mo.), tuition waiver, and excellent medical health plans.

Position available beginning in summer or fall of 2008.

Inquiries: Send preliminary e-mail letter of inquiry, describing research interests and academic qualifications, to:

Dr. Rick Lindroth (Lindroth@entomology.wisc.edu)
Dept. of Entomology 237 Russell Labs 1630 Linden Drive University of Wisconsin Madison, WI 53706

Rick Lindroth <lindroth@entomology.wisc.edu>

UWyoming PolarBearAdaptation

I seek a Doctoral student to investigate physiological processes of free-ranging polar bears through a three year NSF funded project. With global climate change, polar bears face extended summer months isolated on land or northern pack ice without access to seals as food. The project addresses the question whether polar bears have evolved the capacity for prolonged adaptive fasting and if they can maintain skeletal muscle performance in the face of global warming. Work will involve handling polar bears in the field, sample collection, sample processing and analyses. Candidates should have proven abilities to perform laboratory assays, knowledge of statistical and modeling tools, as well as strong record in scientific writing. Previous field experience, especially with large mammals, will be an advantage. Send a letter of intent and an updated CV to Dr. Hank Harlow, Department of Zoology & Phys-

iology, University of Wyoming, Laramie, Wyoming, 82071. For further information, contact Dr. Harlow at (307) 766-3321 or by email at hharlow@uwyo.edu. Starting date is January 1, 2008.

Henry James Harlow <HHarlow@uwyo.edu>

UZurich EvoBioI

****PhD thesis in experimental or computational evolutionary biology***

A three-year Ph.D. studentship in evolutionary biology is available in the laboratory of Andreas Wagner at the University of Zurich. Applications will be considered for both computational and experimental projects. The Wagner lab at the University of Zurich studies biological evolution on all levels of organization, from genes, genomes, and genetic networks to whole organisms. Ongoing projects range from laboratory evolution experiments in yeast to human population genomics. A sample of our research can be found at <http://www.biochem.unizh.ch/wagner/>. Lab members are a group with very diverse backgrounds and research projects, unified by their interests in evolution and /or fundamental organizational principles of life.

A successful candidate for an experimental project will have substantial research experience with microbiological and molecular biological techniques, acquired in research projects with an evolutionary orientation. Experience in performing microarray experiments will be a plus. A successful candidate for a computational project will have a strong background in bioinformatics and computational biology. Fluency in a major scripting language such as perl, and experience in software development is a must. Also necessary is a strong background in biology. Applications without a demonstrated interest and research history in evolutionary biology will not be considered further.

We are looking for an individual with a Masters Degree or equivalent, who is highly self-motivated and can work independently. The working language in the laboratory is English. German skills, although helpful, 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 merged from the fol-

lowing parts to jobs_aw@bioc.unizh.ch <mailto:jobs_aw@bioc.unizh.ch>: CV including publication list (if available), a scanned academic transcript (list of grades in university courses), a statement of research interests not exceeding two pages, and three references. Please include the word "EXPCOMP" in the subject line. The application deadline is November 26th, 2007.*

Christiane Gujan Administrative Assistant of Prof. A. Caffisch and Prof. A. Wagner Zurich University Institute of Biochemistry Winterthurerstrasse 190 CH-8057 Zurich Switzerland

Tel. 0041 (0)44 635 55 49 Fax 0041 (0)44 635 68 62

Christiane Gujan <gujan@bioc.uzh.ch>

WashingtonStateU EvolutionaryModeling

Graduate Fellowships in Social Behavior and Evolutionary Modeling

We are seeking self-motivated and creative graduate students to participate in an NSF-funded graduate training program (IGERT). Participants will earn a PhD from one of the participating departments: the School of Biological Sciences and Department of An-

thropology at Washington State University, or the Department of Anthropology at the University of Washington. This program offers unique opportunities for biological graduate students interested in social behavior and evolutionary modeling to develop interdisciplinary research projects and interact with anthropologists sharing similar interests. This graduate training program focuses on the evolutionary causes and consequences of animal social behavior, including but not limited to cultural evolution, and a wide diversity of thesis research projects is possible (including empirical work on organisms ranging from insects to primates). Students will spend some time at the University of Washington in Seattle as well as at the Washington State University campus in Pullman, Washington. Generous stipend and research support for two years, plus the possibility of a third year of support, will be provided through our continuing NSF grant. Interested students should go to <http://depts.washington.edu/ipem/> for more information. Prospective students are also encouraged to contact one or more of the participating faculty directly - in biology these include Mike Webster (mwebster@wsu.edu), Mike Alfaro (alfaro@wsu.edu), Richard Gomulkiewicz (gomulki@wsu.edu) and Paul Verrell (verrell@wsu.edu).

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

gomulki@wsu.edu gomulki@wsu.edu

Jobs

AdelphiU EvolutionaryGenetics	33	CostaRica FieldAssist MonkeyEvolution	37
BamfieldMarineCenter BC Director	33	EAWAG Zurich EvolBiology	38
BarnardCollege ColumbiaU EvolMicroBiol	34	FloridaStateU ResTech Drosophila	39
BrighamYoungU BioinformaticsEvol	34	GeorgetownU Adjunct ComparativeAnatomy	39
ClemsonU EvolutionaryPhysiologist	35	GettysburgCollege OneYear StatGenetics	40
ColoradoStateU EvolVertPhysiologist	36	GrandValleyStateU EvolBiology	40
ColumbiaU EvolBiology	36	GrandValleyStateU PlantSystematist	40
CornellU ResTech EvolGenetics	37	HarvardU PlantBiodiversity	41

LaJolla California LabManager FishGenet	41	UGeorgia PlantQuantGenet	53
LouisianaStateU EvolIchthyology	42	UGuelph LabManager Barcoding	53
MichiganStateU FieldTech RedSquirrels	42	UGuelph LabTech Barcoding	54
MichiganStateU PlantPhylogenetics	43	UHawaii EvolDevo	55
MichiganStateU ResTech FishEvolutionaryGenet ..	43	UMaryland EvolBiol	55
MississippiStateU MicrobialEvol	44	UMichigan FungalEvolSystematics	56
MississippiStateU MicrobialEvolution	44	UNebraska EvolutionComplexPhenotypes	56
Montpellier EvolProcesses in communities	45	UNewBrunswick PopGenet 2	57
NorthCarolinaStateU PlantEvolution	45	UNorthCarolinaWilmington ConservationBiol Virologist	57
NorthernArizonaU ResTech MicrobialEvolution ...	46	Uppsala SalixMolecularBreeding	58
PurdueU CompBiolDirector	47	UppsalaU PopBiolConsBiol	58
PurdueU MolEvol	47	USouthCarolinaBeaufort EvoDevo	59
SamHoustonStateU EvolGeneticist	48	USydney Bioinformatics MolGenetics	60
SanDiegoZoo MammalianPhylogeny	48	UTexasAustin FishEvolution	61
StanfordU EvolDevo	49	VanderbiltU EvolEcol	61
StanfordU EvolutionaryBiologist 2	49	WashingtonU StatisticalGenetics	62
StKilda FieldAssit SoaySheep	50	WeberStateU PopulationGeneticist	62
UAlabama InvertSystematics	50	WrightStateU MolEvolution	63
UCaliforniaLosAngeles Biomathematics	51	Yunnan TropicalTreeEvolution	63
UCaliforniaSanDiego MolEvol	51		
UCopenhagen EvolutionaryMedicine 2	52		

AdelphiU EvolutionaryGenetics

As seen in the 19 October issue of Science:

Adelphi University, Garden City, New York, invites applications for a tenure-track ASSISTANT PROFESSOR of BIOLOGY-GENETICS position in any area of genetics to begin August 2008. Ph.D required; post-doctoral experience preferred. Excellent potential as a teacher, significant research accomplishments, and the potential to develop a fundable independent research program involving undergraduates and Master's students are required. Teaching responsibilities will include undergraduate genetics with laboratory and could also include introductory biology, upper-level undergraduate, or graduate courses. Those who combine the ability to teach genetics with expertise in ecology, evolution, botany, biotechnology, genomics, or microscopy (including electron microscopy) are especially encouraged to apply, although other specialties will be considered. For more information about the Department, visit website: <http://academics.adelphi.edu/artsci/bio/> Adelphi is a private university with the spirit of a liberal arts college, committed to combining teaching and scholarship, and located in suburban Long Island within easy reach of New York City. Deadline for applications: December 10, 2007. Please apply at website: <http://www.adelphi.edu/positions/faculty>

All appointments are subject to final approval by the Board of Trustees. For additional information about Adelphi University please visit our website: <http://www.adelphi.edu> Adelphi University is committed to building a diverse faculty and strongly encourages applications from minority and women candidates. Adelphi University is an Affirmative Action/Equal Opportunity Employer

– Matthias Foellmer Assistant Professor Department of Biology, Adelphi University 1 South Ave., Garden City, New York, 11530, USA

Matthias Foellmer <Foellmer@adelphi.edu>

BamfieldMarineCenter BC Director

DIRECTOR- BAMFIELD MARINE SCIENCES CENTRE VANCOUVER ISLAND, BRITISH COLUMBIA, CANADA

Applications are invited for the position of Director of the Bamfield Marine Sciences Centre (BMSC; <http://www.bms.bc.ca/>); the anticipated appointment date for this exciting opportunity is July 1, 2008.

The Centre includes a substantial complex of research and teaching facilities supporting modern molecular, physiological, genetic and ecological approaches to the

study of marine and related sciences. A node of the 88km long fibre-optic NEPTUNE underwater observatory network will soon be installed in Barkley Sound near the Centre. Accommodation facilities include a new student lounge, a dining hall and a spectacularly located Director's residence. In addition there is a magnificent new meeting and lecture building. Located in the gorgeous coastal community of Bamfield on the West Coast of Vancouver Island, the Centre operates year round with approximately 40 staff and an annual budget of \$2.6 M. Undergraduate and graduate courses and public outreach programs are offered and more than 90 faculty and graduate students conduct research at Bamfield each year. The Centre is operated by the Western Canadian Marine Sciences Society, a consortium of five universities. (University of British Columbia, Simon Fraser University, University of Alberta, University of Calgary, University of Victoria). The Director reports to a Management Council appointed by the universities.

We are seeking an enthusiastic, visionary leader with a strong research record, a commitment to marine science education and preferably demonstrated success in an administrative capacity. The Director will foster the growth of Bamfield as a leading national and international marine sciences centre, develop a research focus consistent with the opportunities at BMSC, and fundraise from government and private sources to support the growth of the Centre. Salary and rank will be commensurate with qualifications and experience. Appointment will be for 5 years, renewable given mutual satisfaction. Tenure at a member university is negotiable. The closing date for applications is December 30th 2007, but applications will be considered until the position is filled. Applications should be submitted electronically to Dr. Barry McBride, c/o of Ms. Shirley Pakula at spakula@bms.bc.ca (1-250-728-3301 x221).

All qualified applicants are encouraged to apply but in accordance with Canadian Immigration requirements Canadian citizens and permanent residents of Canada will be given priority. The member universities are committed to employment equity.

Applications should include a curriculum vitae, a list of publications, and the names and contact information of three referees.

Shirley Pakula Bamfield Marine Sciences Centre Bamfield, B.C. V0R 1B0 Email: spakula@bms.bc.ca Web: www.bms.bc.ca Ph: 250-728-3301 ext. 221 Fax 250-728-3452

spakula@bms.bc.ca spakula@bms.bc.ca

BarnardCollege ColumbiaU EvolMicroBiol

MICROBIOLOGY TENURE-TRACK ASSISTANT PROFESSOR

The Department of Biological Sciences at Barnard College, Columbia University, seeks a full-time, tenure-track Assistant Professor (starting July 2008) to participate in undergraduate teaching and establish an active, externally funded research program that investigates any aspect of the biology of microbes. Before applying, please see www.barnard.edu/biology/-microjob.htm. Teaching responsibilities include advanced lecture and laboratory courses in microbial diversity, occasional participation in the Introductory Biology sequence, and organization of a senior seminar in an area of interest to the successful candidate. Ph.D. and postdoctoral experience is required; teaching experience is desirable. Applicants should send cv, research and teaching statements, three representative publications and three letters of recommendation to: Microbiology Search Committee, Dept. Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027 (e-mail: biologyjob@barnard.edu). Review of applications will begin November 1. Barnard College is an Equal Opportunity Employer. Women and members of under-represented minorities are encouraged to apply.

bmorton@barnard.edu bmorton@barnard.edu

BrighamYoungU BioinformaticsEvol

Faculty Openings, Department of Biology, Brigham Young University

Bioinformatics/Computational Biology

The Department of Biology at Brigham Young University seeks to fill two continuing faculty status track positions in the areas of bioinformatics and/or computational biology. We seek exceptional individuals with a PhD and postdoctoral experience relevant to bioinformatics, genomics, and/or computational biology, including degrees in areas of biology, computer science, mathematics, and/or statistics. The success-

ful candidates are expected to develop an externally funded research program and teach courses in Bioinformatics and the biology core. The department offers competitive start-up packages and reduced teaching loads for new faculty. Interested persons should send a CV, statements of teaching and research interests, and a completed BYU faculty application form to: Dr. Keith Crandall, 401 Widtsoe Building, Department of Biology, BYU, Provo, UT 84602 - electronic applications preferred to bio@byu.edu. For further information on the bioinformatics program at BYU see <http://bioinformatics.byu.edu/>. Ecology/Evolution

The Department of Biology is seeking outstanding colleagues to join an active and interdisciplinary faculty with strengths in evolutionary and organismal biology, ecology, and biological science education. We seek qualified applicants to fill one or more continuing faculty status track positions in any area of evolutionary biology or population/evolutionary ecology. The successful candidate will hold a PhD, have post-doctoral experience, and is expected to maintain an externally funded research program involving both undergraduate and graduate students. Excellence in teaching is expected and college-level teaching experience is preferred. Teaching responsibilities will vary with the candidate's background and will include a contribution to our undergraduate curriculum (e.g., general biology, ecology, evolution, conservation biology, or plant biology) as well as a graduate course in the candidate's area of expertise. The department offers competitive start-up packages and reduced teaching loads for new faculty. Interested persons should send a CV, statements of teaching and research interests, and a completed BYU faculty application form to: Dr. Jerry Johnson, Ecology/ Evolutionary Biology Search Committee Chair, 401 WIDB, Department of Biology, BYU, Provo, UT 84602 - electronic applications preferred to bio@byu.edu.

Biologist

The Department of Biology is offering a continuing faculty status track position (open rank) to begin in the fall of 2008 (negotiable). Outstanding candidates with expertise in any area of biology will be considered, although preference will be given to those applicants who integrate with several of the department research foci in evolution and ecology, bioinformatics, conservation biology, botany, or science education. Candidates must have a Ph.D. in biology or a related discipline and post-doctoral experience and will be expected to maintain an externally funded research program involving both undergraduate and graduate students. Excellence in teaching is expected with responsibilities varying with the candidate's background, but including a contribu-

tion to the undergraduate curriculum (e.g., general biology, biological science education, ecology, evolution, conservation biology, or plant biology) as well as a graduate course in the candidate's area of expertise. The department offers competitive start-up packages and reduced teaching loads for new faculty. Interested persons should send a CV, statements of teaching and research interests, and a completed BYU faculty application form to: Dr. Mark Belk, Biology Search Committee Chair, Brigham Young University, Provo, UT 84602 - electronic applications preferred to bio@byu.edu.

The review process will begin November 1, 2007 for all positions and continue until the positions are filled. Faculty application forms can be found at: <https://yjobs.byu.edu>. Additional department and college information is available at website: <http://-biology.byu.edu/> home. BYU, an equal opportunity employer, is sponsored by The Church of Jesus Christ of Latter-day Saints and requires observance of Church standards. Preference is given to members in good standing of the sponsoring Church.

keith_crandall@byu.edu keith_crandall@byu.edu

ClemsonU EvolutionaryPhysiologist

Faculty Position in Integrative Animal Physiology

The Department of Biological Sciences at Clemson University invites applications for a tenure-track faculty position in integrative animal physiology at the Assistant Professor level, to begin August 2008. Post-doctoral experience is required. We are seeking a broadly-trained biologist whose research utilizes multidisciplinary approaches to improve understanding of organismal function and adaptation. Specific areas of research are open but should emphasize comparative, experimental, or evolutionary approaches; preference will be given to candidates with expertise in vertebrate systems. The successful candidate will be expected to interact with faculty having diverse interests ranging from organismal biology, ecology, and evolution to cell, developmental, and molecular biology, thereby supporting University emphasis areas in Sustainable Environment and Biomedicine and Biotechnology. The successful candidate will also be expected to establish innovative, externally-funded research programs of national distinction, and to be an excellent teacher. Teaching responsibilities include one upper level undergraduate course in comparative physiology or vertebrate biol-

ogy and graduate course(s) in one's specialty. Applications should include a curriculum vitae, no more than three reprints, a statement of current and planned research, a statement of teaching philosophy and interests, and names and contact information for three references. Review of applications will begin November 9, 2007 and will continue until the position is filled. Please send application materials by e-mail as .doc or .pdf files to: sallyb@clemsun.edu. Further information about this position, departmental resources, programs, and faculty research interests are available at: <http://www.clemson.edu/biosci>. Clemson University is an Affirmative Action/Equal Opportunity Employer. Clemson University does not discriminate against any person on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, or veteran's status.

Margaret Ptacek <mptacek@CLEMSON.EDU>

ColoradoStateU EvolVertPhysiologist

We have a job opening in Biology at Colorado State University that may be of interest to evolutionary biologists who study vertebrate physiology.

Thank you, Lisa Angeloni

*Integrative Vertebrate Physiologist

The Department of Biology at Colorado State University invites applications for a full-time tenure-track faculty position in integrative vertebrate physiology, at the rank of Assistant Professor. Competitive applicants will investigate physiological processes that integrate across complex systems in the laboratory and/or field, and address mechanistic questions at the cell, tissue, organ system, or organism level. Successful candidates will contribute to undergraduate and graduate teaching and education. Candidates using molecular and/or biochemical approaches including but not limited to functional genomics, proteomics or metabolomics are encouraged to apply. For full details, see (<http://www.biology.colostate.edu/Jobs/>).

Applicants must have a Ph.D. by the time of appointment; post-doctoral experience is preferred. To receive full consideration, apply online by November 5, 2007 (www.natsci.colostate.edu/searches/Biology). Include a C.V., statements of research/teaching interests, representative publications and the names and contact infor-

mation for three referees. Referees will receive instructions by e-mail for submitting letters on-line. Complete applications of semi-finalists will be available to all Biology Faculty. Colorado State University is an AA/EO Employer. Office of Equal Opportunity and Diversity, 101 Student Services.

*

– Lisa Angeloni Assistant Professor Department of Biology Colorado State University E441 Anatomy-Zoology Building Fort Collins, CO 80523-1878 Phone: 970-491-0562 Fax: 970-491-0649

Lisa Angeloni <angeloni@lamar.colostate.edu>

ColumbiaU EvolBiology

ECOLOGY, EVOLUTION AND ENVIRONMENTAL BIOLOGY COLUMBIA UNIVERSITY We seek an ecological, evolutionary or environmental biologist whose research complements and augments strengths within the department and related institutions (< <http://www.columbia.edu/cu/e3b/job> >www.columbia.edu/cu/e3b/job). Appointment will be at the Assistant Professor level. We encourage applicants working on animals or microbes at landscape, regional or global scales. Successful candidate will be expected to establish a vigorous, externally funded research program and to participate in undergraduate and graduate teaching. Ph.D. required. Candidates should send single PDF file including CV, research and teaching statements, and contacts for 3 or more referees to eeeb-facsearch@columbia.edu by November 5, 2007. Columbia University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

Please advise. Thank you,

Lourdes A. Gautier Academic Department Administrator Ecology, Evolution, and Environmental Biology Columbia University 1200 Amsterdam Avenue New York, NY 10027 212-854-9987 212-854-8188 (fax)

Lourdes Gautier <lg2019@columbia.edu>

CornellU ResTech EvolGenetics

Cornell Research Tech in Marine Conservation/Evolutionary Genetics

A full-time Research Technician position is available to work on an NSF-funded project investigating larval dispersal and postsettlement selection in Florida oysters. The project integrates measures of postsettlement selection, larval dispersal and fertilization success to analyze the mechanisms shaping population heterogeneity along an ecotone in eastern Florida. Laboratory genetic analyses will be based at Cornell University, Ithaca NY in the laboratory of Matt Hare. Summer field and hatchery work in Florida is required. The position is available immediately and applications will be reviewed until the position is filled.

The exact position, level of expectation and responsibility will depend upon previous education and experience. Laboratory work will include DNA extractions, AFLP genotyping, cloning, DNA sequencing, and SNP genotyping. Additional responsibilities may include laboratory management, student training, and data analysis. Hatchery work will include differential fertilization experiments. Field work will entail deployment traps and collecting juvenile oysters.

To see a detailed job description and apply go to: https://cornellu.taleo.net/servlets/CareerSection?art_ip_action=-FlowDispatcher&flowTypeNo=13&pageSeq=-2&reqNo=114469&art_servlet_language=en&selected_language=en&csNo=10164#topOfCsPage < https://cornellu.taleo.net/servlets/CareerSection?art_ip_action=-FlowDispatcher&flowTypeNo=13&pageSeq=-2&reqNo=114469&art_servlet_language=en&selected_language=en&csNo=10164#topOfCsPage >

Questions can be addressed to Matt Hare at mph75@cornell.edu <<mailto:mph75@cornell.edu>> or 607-255-5685.

/Located in Ithaca, N.Y., Cornell University is a bold, innovative and inclusive teaching and research university of academic distinction and public service where staff, faculty, and students alike are challenged to be active citizens of the world//.// Ithaca is the cultural center of the scenic Finger Lakes region of central New York, known for its spectacular gorges and waterfalls, lake-side wineries, and rolling farmland. Ithaca has been called the "best emerging city" in the US (Cities Ranked and Rated, 2004). It is about a 4-hour drive from New York City./

/ Cornell University is an equal opportunity, affirmative action educator and employer./

Dr. Matthew Hare, Associate Professor, Department of Natural Resources, 208 Fernow Hall, Cornell University, Ithaca, NY 14853

mph75@cornell.edu mph75@cornell.edu

CostaRica FieldAssist MonkeyEvolution

Position- Field assistant, Capuchins, Behavioral Endocrinology, Costa Rica

Hiring Organization: Colleen Gault- affiliated with Living Links Center, Emory University and Lomas Barbudal Monkey Project

Position Description: I am looking for 2 field assistants to collect behavioral data and fecal samples (for hormonal analysis) on a well-habituated population of wild capuchin monkeys that have been studied in Costa Rica since 1990 as part of the Lomas Barbudal Monkey Project. Information about the field site, past publications, working conditions, and application instructions are available on the following website: <http://www.sscnet.ucla.edu/anthro/faculty/-sperry/jobs.html> Read the detailed guide about working conditions (available in pdf form from the above site) before applying. The position advertised here is for a project affiliated with the Lomas Barbudal Monkey Project but life will differ in several critical ways that will make this position appeal more or less to particular applicants relative to the position offered by Dr. Susan Perry. 1) You will not live in the big yellow house town but in a small house in a small farming village next to the Lomas Barbudal Reserve

- a. You will have fewer colleagues with which to socialize or to have to tolerate (only me and another field assistant)
- b. Thus, you will either learn more Spanish, get through your reading list, or take up a hobby
- c. Public transport (to airports, beach, etc) will be less accessible for emergencies, vacations, and visitors, but is still easy relative to many field sites.
- d. You will not have to drive on the treacherous Pan-American highway every day and night
- e. Capuchins & Howlers will be in your backyard
- f. Local discos will not keep you awake until 3am with thunderous bass.

2) Data collection will involve all day rather than 10-minute follows of individual monkeys

a. You must observe with the same monkey and all their interactions from dawn to dusk each day and will only have an immense sense of accomplishment after several successful days rather than a slight accomplishment after 10 successful minutes

b. You will observe the whole story' behind the monkey drama for your focal, rather than broken pieces.

c. This is too difficult in the rainy season so we will stop for the typical worst of it- mid Sept to mid November

3) You will collect a great deal of fecal samples

a. Capuchin feces smell like fruit, and are thus much less disgusting than yours, your dog's or your cat's.

b. You will help field extractions of the feces, which involves the use of worse smelling chemicals such as acetone.

4) You won't be taking detailed data on *Sloanea* processing

5) I will be teaching kids in the local elementary school about the monkeys & the forest. You will be able to choose your level of involvement in this, but it will be a great way to be less of an outsider in the community in which you'll live.

Qualifications/Experience: Anyone can apply, but we prefer candidates with some course work in animal behavior, some prior field experience, and some Spanish language skills. Some of these requirements can be waived for candidates that are exceptionally well qualified in other ways. Must have medical insurance. Must be willing to work extremely hard, as our schedule is grueling.

Salary/funding: See below - no salary, but we cover essentially all of your expenses. Depending on the grant funding, approximately \$100/month is provided for incidental expenses as well.

Support provided for internship/volunteer positions (travel, meals, lodging): Room and board are provided, and up to \$1000 is provided for the plane fare, contingent upon completion of the work agreed upon. You must provide your own medical insurance and cover your own medical costs.

Term of Appointment: Two available time slots: March 2008- mid Sept 2009 and December 2009-mid Sept 2010. Applicants that cannot begin until May 08 will be considered, and other variations on these dates may be possible, but a 6 month commitment is required.

Application Deadline: Rolling deadline. To apply, fol-

low the instructions at <http://www.sscnet.ucla.edu/anthro/faculty/sperry/jobs.html>, but send application materials to Colleen Gault at the addresses listed below, and cc them to Susan Perry (sperry@anthro.ucla.edu), making clear that you are applying for my (Colleen's) position.

Contact Information: Colleen Gault Emory University, Dept. of Psychology Living Links, Yerkes National Primate Research Center 954 N. Gatewood Road, Atlanta, GA 30329 www.emory.edu/LIVING_LINKS/ Phone: (404) 727-0912

— / —

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>

EAWAG Zurich EvolBiology

Eawag is the Swiss Federal Institute for Aquatic Science and Technology, a Swiss-based and internationally operating aquatic research institute within the ETH domain.

Our Aquatic Ecology Department has a job opening for Two Junior Groupleaders (PhD, Tenure Track)

Suitable candidates have an excellent research record in Ecology / Evolution / Environmental sciences with a focus on aquatic ecosystems. We are especially interested in candidates who relate conceptually strong, question-oriented research to environmental issues. The ideal candidates have post-doctoral research experience and are ready to apply for external research funding.

For the first position, we prefer a person interested in developing research on the adaptive responses of populations to environmental stress, including pollutants, environmental change, and species interactions. This research group would benefit from collaborative opportunities with, for example, Eawag Departments of Environmental Ecotoxicology, Chemistry, Microbiology, and Fish Ecology and Evolution. For the second position, we prefer a person interested in developing research on ecosystem responses to environmental change. This research group would benefit from Eawag's expertise in biogeochemistry and systems analysis and modeling. Both positions are broadly defined, but emphasis is placed on experimental approaches and research

themes that complement the existing research profile of the Department of Aquatic Ecology.

Junior Group Leader is expected to:

- Establish an independent and collaborative research group - Supervise PhD and Masters students - Participate in department activities (teaching, administration)

The Department of Aquatic Ecology houses 10 research groups in diverse areas of aquatic research, often collaborating with other Eawag departments, the ETH-Zurich, and internationally. Our department is connected to the Institute of Integrative Biology, ETH-Zurich (Prof. Jukka Jokela). As a top research institute, Eawag provides excellent support for high quality research and a stimulating research environment in close vicinity to ETH-Zurich. Eawag has world class research infrastructure and excellent support for developing research in evolutionary biology, experimental ecology and ecosystem research.

The application deadline is December 7, 2007 with a potential start date of March 2008. The working language in the department is English. Send a CV and application letter (including research interests and names and addresses of 3 references) to: Eawag, Sandra Isenring, Human Resources, Ueberlandstrasse 133, CH-8600 Duebendorf, Switzerland or by email to recruiting@eawag.ch. Females are especially encouraged to apply. Visit www.eawag.ch for more information about Eawag and Prof. Jukka Jokela (jukka.jokela@eawag.ch) about the positions.

Jukka.Jokela@eawag.ch Jukka.Jokela@eawag.ch

FloridaStateU ResTech Drosophila

Research Technician, OPS

We are seeking a full-time research technician, experienced in traditional genetics and molecular genetics, to assist in a new three-year project. Duties include traditional genetic crosses, phenotypic measurements of *Drosophila*, construction of transgenes, and assays of gene expression. Will also manage an active *Drosophila* lab and supervise routine stock maintenance and undergraduate employees. Pay will be from \$10-\$15/hour, depending on experience.

Qualifications: Bachelor's degree in a biological science, or equivalent laboratory experience.

Requirements Experience with molecular biological techniques. Excellent knowledge of transmission genetics. Good organizational skills. Experience working with *Drosophila* (fruit flies) is desirable, but not required.

Contact Info The work will be at the laboratory of Dr. David Houle (<http://bio.fsu.edu/~dhoule/>), Department of Biological Science (<http://www.bio.fsu.edu/>), Florida State University, Tallahassee, FL 32306. To apply, send a brief letter stating your interest, a curriculum vitae, and the contact information for three references to Kim van der Linde, kim@kimvdlinde.com Applications will be considered starting October 17, 2007. For additional information, please contact Dr. Kim van der Linde directly

Equal Employment Opportunity An Equal Opportunity/Access/Affirmative Action Employer.

- <http://www.kimvdlinde.com> kim@kimvdlinde.com

GeorgetownU Adjunct ComparativeAnatomy

The Department of Biology at Georgetown University, Washington DC (biology.georgetown.edu) seeks an adjunct faculty member to teach a semester long course in comparative anatomy during the Spring semester of 2008 and beyond.

The course should be an introduction to topics in comparative anatomy, not necessarily limited to vertebrate taxa. We are particularly interested in a course designed around broad perspectives on the subject such as the history of major evolutionary transitions in anatomical structure and function, phylogenetic perspectives on similarity and differences in anatomy, and treating anatomy as a series of questions that can be addressed through hypothesis testing. The Department is actively seeking a curriculum based on creative teaching ideas and techniques for this course. The course would be structured around three lectures and one 2-3 hour laboratory period a week

Applicants should hold an earned doctorate in a relevant area of biology and have experience teaching the subject. Applications should consist of a cover letter, a detailed course syllabus (logistical details can be left open) and a curriculum vitae. Submit applicants via email to hamiltm1@georgetown.edu or by mail to Comparative Anatomy, c/o Dr. MB Hamil-

ton, Dept. of Biology (Reiss 406), Georgetown University, 37th and O Streets NW, Washington DC 20057 USA. Please contact Professor Matthew B. Hamilton (hamiltm1@georgetown.edu or 202-687-5924) with any questions.

Georgetown University is committed to diversity and equal opportunity in employment.

hamiltm1@georgetown.edu hamiltm1@georgetown.edu

GettysburgCollege OneYear StatGenetics

GENETICS/STATISTICS

Gettysburg College invites applications for a one-year sabbatical replacement position (with the possibility of renewal for a second year) at the rank of assistant professor in the Biology Department to begin in Fall 2008. Ph.D. in a Biological Sciences discipline, commitment to teaching in the liberal arts tradition, and research that can involve undergraduates are essential. Must be able to teach genetics, biostatistics, and possibly in the second year a course in area of specialization.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Washington/Baltimore metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of over 2,600 students. Gettysburg College celebrates diversity and welcomes applications from members of any group that has been historically underrepresented in the American academy. The College assures equal employment opportunity and prohibits discrimination on the basis of race, color, national origin, gender, religion, sexual orientation, age, and disability.

Send by post (no electronic applications) curriculum vitae and statement of teaching and research goals and have three letters of reference (at least one of which can speak to the candidate's teaching effectiveness) sent to: Dr. Véronique A. Delesalle, Biology Search, Biology Department, Box 392, Gettysburg College, Gettysburg, PA 17325. Review of applications will begin January 15th, 2008, and will continue until a successful candidate is found.

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

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

delesall@gettysburg.edu delesall@gettysburg.edu

GrandValleyStateU EvolBiology

Evolutionary Biologist V Assistant Professor Grand Valley State University, MI Evolutionary Biologist. The Biology Department at Grand Valley State University invites applications for a tenure-track position at the assistant professor level to start in the Fall 2008. A PhD in biology and strong background in evolutionary biology are required. Teaching and postdoctoral experience are desired. The candidate selected for this position will teach evolution, introductory biology, and other majors and non-majors courses appropriate to the candidates area of expertise. The successful candidate will be expected to maintain active scholarship. Research involving undergraduates is encouraged. Grand Valley State University is primarily an undergraduate teaching institution whose faculty are expected to advise students and participate in the academic governance of the department, college and university. Apply online at <http://www.gvsujobs.org/>. Include a cover letter, CV, Statements of Teaching philosophy and Research Interests and an electronic copy of your unofficial Transcript (if available). The online application system will allow you to attach these documents electronically. If you have questions or need assistance, call Human Resources at 616-331-2215. Send hard copies of unofficial transcripts and three letters of reference to: Chair, Evolutionary Biology Search Committee, Biology Department, Grand Valley State University, 1 Campus Dr., Allendale, MI 49401. Deadline for applications is November 19, 2007. Grand Valley State University is an Equal Opportunity / Affirmative Action Institution

Michael Henshaw <henshawm@gvsu.edu>

GrandValleyStateU PlantSystematist

Plant Systematist - Assistant Professor Grand Valley State University, MI

The Biology Department at Grand Valley State Uni-

versity is seeking a PLANT SYSTEMATIST for a tenure-track position at the assistant professor level to start in the Fall 2008. A Ph.D. in Botany or Biology with expertise in systematics or fields that use the tools of systematics (such as biogeography, etc.) and excellent communication skills are required; teaching and postdoctoral experience are desired. Teaching responsibilities will include undergraduate systematic botany, introductory biology, and other botany offerings such as ethnobotany and organismal and graduate courses. The successful candidate will be expected to maintain active scholarship; research involving undergraduates is encouraged. Grand Valley State University is primarily an undergraduate teaching institution whose faculty members are expected to advise students and participate in the academic governance of the department, college and university. Apply online at <http://www.gvsujobs.org/>. Include a cover letter, CV, statements of teaching philosophy and research interests, references, and scanned copies of your transcripts. The online application system will allow you to attach these documents electronically. If you have questions or need assistance, call Human Resources at 616-331-2215. Send three letters of reference to: Chair; Plant Systematist Search Committee; Biology Department; Grand Valley State University; Allendale, MI 49401-9403 (<http://gvsu.edu/biology/index.cfm?id=19EC1641-E853-4271-D56BA953F8F5AD21>). Review of applications begins November 19, 2007. Grand Valley State University is an Affirmative Action/Equal Opportunity Employer.

Margaret Dietrich Assistant Professor Biology Department Grand Valley State University Allendale, MI 49401

(616) 331-2816

Margaret Dietrich <dietrima@gvsu.edu>

HarvardU PlantBiodiversity

PLANT EVOLUTION & BIODIVERSITY

Harvard University

Department of Organismic and Evolutionary Biology

The Department of Organismic and Evolutionary Biology at Harvard University invites applications for a tenure-track faculty position in plant evolution and diversity. We seek to appoint an individual who uses phylogenetic approaches to address fundamental ques-

tions regarding the origin and maintenance of diversity in plant lineages and/or communities. Researchers focused on non-core eudicot lineages such as monocots, gymnosperms, non-seed land plants and algae are especially encouraged to apply. Applicants will be expected to develop an innovative research program and contribute to teaching at the undergraduate and graduate levels. Applications from, or information about, female and minority candidates are encouraged. This search is part of a broader initiative to develop comprehensive research programs in plant biology and evolution at Harvard University. The department has strong linkages to a number of allied institutions, including the Harvard Forest, Arnold Arboretum, Harvard University Herbaria and Harvard Centre for the Environment.

Applicants should submit the following application materials online to <http://www.lsddiv.harvard.edu/oeb/-facultysearch/peb> : a curriculum vitae, statements of research and teaching interests, representative publications, and arrange for three references to be uploaded to the website. Letters of nomination from third parties are also welcome and may be sent via e-mail to Elena M. Kramer, Professor of Biology c/o Katie Parodi, kparodi@oeb.harvard.edu. Review of applications will begin on December 1st, 2007.

Further information about OEB is available at www.oeb.harvard.edu; information about the ongoing Plant Biology Initiative at Harvard can be found at www.pbi.fas.harvard.edu.

Harvard University is an Affirmative Action/Equal Opportunity Employer.

Elena M. Kramer Professor of Biology Dept. of Organismic and Evolutionary Biology Harvard University 16 Divinity Ave Biolabs 1109 Cambridge MA 02138 (Office) 617-496-3460 (Lab) 617-384-7820 (Fax) 617-496-5854 ekramer@oeb.harvard.edu

LaJolla California LabManager FishGenet

The Southwest Fisheries Science Center (SWFSC) in La Jolla, CA, USA, seeks a lab manager for its Molecular Ecology Laboratory. Responsibilities include production of high quality genetic data for phylogenetic and population structure studies primarily of marine mammals and sea turtles by: overseeing daily opera-

tions of the genetics laboratory and its systems,
 training laboratory personnel and students in basic laboratory techniques,
 serving as liaison between project investigators and laboratory staff,
 supervising laboratory technicians,
 tracking status of all projects moving through the lab,
 providing technical guidance, problem solving, and troubleshooting of laboratory methods
 procurement of laboratory supplies and equipment,
 ensuring maintenance of laboratory equipment and environment
 providing fiscal oversight of laboratory budget and maintenance of a cost effective research environment

He/she must communicate with and report to principle investigators and collaborators on a regular basis, and be familiar with relational databases for laboratory data input, quality control, and tracking of projects. Additionally, she/he will: Oversee development and testing of new technologies and protocols to improve our data quality and efficiency; Introduce and evaluate new technology to improve our research capacity; Track and manage the laboratory budget using MS Access and Oracle databases; Assist in the development, monitoring, and maintenance of project budget and schedules; Produce and provide data to other laboratories within NMFS, to international organizations such as the International Whaling Commission, and to collaborators; Coordinate lab activities with members of other programs and divisions within the SWFSC

Required Qualifications: Ability to effectively communicate and interact with staff in a team-based environment. Requires a high degree of autonomy, flexibility, independent judgment, and leadership skills. Bachelor's degree or higher in biology or related field, at least 3 years experience with molecular genetics research methods including DNA extraction, microsatellite genotyping, SNP genotyping, and DNA sequencing, and experience with overseeing the operation of a lab, including procurement, training of new personnel, data quality control and assurance, and project management.

Preferred Qualifications: Preference will be given to candidates who pay attention to detail, have good organizational skills, and can work collaboratively with others.

This is a full-time position with a two year term limit, but with potential for extension. Salary commensurate with experience and will include benefits. Candidates

must be U.S. Citizens. We expect the job to be open for applications in November. Please contact Phil Morin for details (phillip.morin@noaa.gov). More information about the Protected Resources Division at the SWFSC is available at <http://swfsc.noaa.gov/prd.aspx>

Phillip.Morin@noaa.gov Phillip.Morin@noaa.gov

LouisianaStateU EvolIchthyology

Ichthyologist Assistant Professor/Assistant Curator
 Louisiana State University

The Department of Biological Sciences and the Museum of Natural Science at Louisiana State University invite applications for an Assistant Professor/Assistant Curator (Ichthyologist/Tenure-track) position. Required Qualifications: A Ph.D. or equivalent in Biological Sciences or a related field; curatorial experience in a research collection. Additional Qualifications Desired: Research focus on the evolutionary biology of fish; post-doctoral experience; strong background in the development, management, and use of museum collections. Responsibilities: develops a strong, competitively funded research program, teach one course per year, directs graduate students, curates LSU's ichthyology collection. Visit <http://www.biology.lsu.edu> and <http://www.lsu.edu/museum> for additional information. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is November 30, 2007 or until a candidate is selected. Send curriculum vitae (including e-mail address), statements of research & teaching interests, and the names and contact information for three references to: Ichthyologist Search, c/o Mark Hafner, Department of Biological Sciences, 202 Life Sciences Bldg, Louisiana State University, Baton Rouge, LA 70803 U.S.A. Ref. Log #002406. LSU is an Equal Opportunity/Equal Access Employer.

brumfld@lsu.edu brumfld@lsu.edu

MichiganStateU FieldTech RedSquirrels

As many as eight field technicians are needed to work

as part of a long-term project studying the ecology and evolution of red squirrels near Kluane Lake, Yukon, Canada. Details on the project and area can be found at www.redsquirrel.msu.edu. Technicians will be responsible for monitoring the survival and reproduction of red squirrels during the 2008 breeding season. Duties will include live-trapping, handling and tagging of red squirrels, assessing reproductive condition, radio-collaring and telemetry, and performing behavioral observations.

Successful applicants will have a biology or wildlife background, exhibit sound decision making abilities, and will be prepared to live at our remote field camp in the winter. Field technicians must be prepared to complete fieldwork using snowshoes under northern winter weather conditions. Previous field experience with small mammals and winter field experience will be considered assets. Applicants must be eligible to work in either Canada or the U.S.A., have up-to-date first-aid training, a valid driver's license and a clean driving record.

Two technicians will work on a graduate research project studying the reproductive investment of red squirrels, with employment between January 20 and May 31, 2008. Six additional technicians are needed between February 25 and August 31, 2008, but end dates for all positions are negotiable. Salary will range from \$1,300 to \$1,700 per month depending on experience. Food and accommodation will be provided in the field.

Applicants should send a resume and cover letter, including references electronically to Ryan Taylor at Michigan State University (rwtaylor@msu.edu). Applications will be considered until January 1, but review of applications will begin immediately. Under-represented groups are particularly encouraged to apply.

mcadama@msu.edu mcadama@msu.edu

MichiganStateU PlantPhylogenetics

PLANT FUNCTIONAL ECOLOGIST

The Department of Plant Biology at Michigan State University invites applications for a tenure-track position at the Assistant Professor level. We seek an individual who investigates the ecological significance of physiological, morphological, and/or developmental traits. We are particularly interested in appli-

cants who employ phylogenetic and/or molecular genetic methods. This position complements a number of recent hires in ecology, evolution, population genetics, developmental biology, and bioinformatics at MSU. The successful applicant will contribute to undergraduate and graduate teaching, participate in the graduate program in Ecology, Evolutionary Biology, and Behavior (www.msu.edu/~eebb), and maintain an externally funded research program. Applicants must have a Ph.D., and postdoctoral research experience is desirable. Applications should include a curriculum vitae, a summary of research accomplishments and future research objectives, a brief description of teaching philosophy and goals, and three letters of reference. Information about the Department of Plant Biology can be found at <http://www.plantbiology.msu.edu>. The review of applications will begin November 30, 2007 and will continue until a suitable candidate is identified. Application materials should be sent electronically to plbeco@msu.edu. Questions regarding this position may be sent to Douglas Schemske (schem@msu.edu).

MSU is an affirmative action, equal opportunity employer. MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities. jrichey@plantbiology.msu.edu

MichiganStateU ResTech FishEvolutionaryGenet

I would be grateful if the advertisement listed below could be listed on Evoldir

Michigan State University Department of Fisheries and Wildlife

Research Assistant II (Position #1688)

Genomic, Phylogenetic, and Population Genetic Studies of Great Lakes Fishes

A research technician position is available in the Department of Fisheries and Wildlife at Michigan State University. We seek a motivated and experienced individual to participate in laboratory projects involving rtPCR analysis of gene expression of candidate genes associated with disease susceptibility, phylogeographic and population genetic analyses of regionally important Great Lakes fish species, and parentage analysis.

Minimum qualifications include completion of a four-year degree program in molecular biology, microbiology, biochemistry, genetics, or related fields; multiple years of progressively more responsible or expansive work experience conducting and overseeing research projects demonstrated by independent research accomplishments and performance associated with laboratory operations. Knowledge and demonstration of skills performing specialized procedures are required including: recombinant DNA techniques, DNA sequencing, PCR, genotyping, and quantitative PCR. Knowledge and demonstration of experience in areas of curation, manipulation, and analysis of molecular genetic databases, and operation of laboratory equipment including automated sequencing/genotyping platforms is required. Demonstration of writing skills as evidenced by preparation of technical reports; knowledge of computer operation, database management, and word processing is required as well as familiarity with safe laboratory practices and safety regulations. The successful candidate should be familiar with phylogenetic and population genetic software. Opportunities exist for working with graduate and undergraduate students and post docs as well as conducting independent research projects.

Applications will be accepted until 28 October or until a suitable candidate is selected. Inquiries about the position can be directed to Kim Scribner (scribne3@msu.edu). Applications should be made through the Human Resources Office web site at www.jobs.msu.edu, or applications can be addressed to 1407 S. Harrison Rd, Room 110, East Lansing, MI. Refer to posting #1688.

Kim T. Scribner, Professor Department of Fisheries & Wildlife and Department of Zoology 13 Natural Resources Building Michigan State University East Lansing, Michigan 48824-1222 tel: (517)-353-3288 (office) (517)-432-4935 (lab) fax: (517)-432-1699 email: scribne3@msu.edu website: <http://www.fw.msu.edu/people/ScribnerKim/index.htm>

scribne3@msu.edu

MississippiStateU MicrobialEvol

FACULTY POSITIONS IN BIOLOGICAL SCIENCES
The Department of Biological Sciences at Mississippi State University invites applications for three tenure-track Assistant Professor positions to begin January 1,

2008 or August 16, 2008. Screening will begin December 15, 2007 and will continue until the positions are filled. Candidates will be expected to contribute to one of the two following focus areas. Developmental Genomics: Desired research emphasis for this position is in the Functional Genomics of Development to complement a research group in physiology and cell & developmental biology. Microbiology: Desired research emphasis in each of two positions can be in one of the following: Ecoepidemiology/Infectious Disease Ecology, Environmental Microbiology, Host-Pathogen Interactions, or Microbial Ecology and Evolution. Successful candidates will have the opportunity to interact with a rapidly growing faculty to develop externally funded research programs in any of the above-mentioned areas. They will be expected to direct graduate students and contribute to both the undergraduate (Biological Sciences and/or Microbiology major) and graduate teaching missions of the department. A Ph.D. in a related biological sciences field is required with post-doctoral experience preferred. To apply, send a CV plus reprints of three representative publications, a concise (one page) statement on current and future research interests, and a concise statement on teaching interests and competence. Arrange for at least 3 letters of reference to be submitted on behalf of the applicant. Send applications (hard copy) to Dr. Nancy Reichert, Head, Department of Biological Sciences P.O. Box GY, Mississippi State University, Mississippi State, MS 39762; or electronically to FacultySearch@biology.msstate.edu. Mississippi State University is an Affirmative Action/Equal Opportunity Employer

Mark E. Welch, Ph.D. Assistant Professor Dept. of Biological Sciences Mississippi State University P.O. Box GY Mississippi State, MS39762

E-mail: mark.welch@msstate.edu Phone: 662.325.7564
Fax: 662.325.7939

mw497@msstate.edu mw497@msstate.edu

MississippiStateU MicrobialEvolution

FACULTY POSITIONS IN BIOLOGICAL SCIENCES
The Department of Biological Sciences at Mississippi State University invites applications for three tenure-track Assistant Professor positions to begin January 1, 2008 or August 16, 2008. Screening will begin October 1, 2007 and will continue until the positions are filled.

Candidates will be expected to contribute to one of the two following focus areas. **Developmental Genomics:** Desired research emphasis for this position is in the Functional Genomics of Development to complement a research group in physiology and cell & developmental biology. **Microbiology:** Desired research emphasis in each of two positions can be in one of the following: Ecoepidemiology/Infectious Disease Ecology, Environmental Microbiology, Host-Pathogen Interactions, or Microbial Ecology and Evolution. Successful candidates will have the opportunity to interact with a rapidly growing faculty to develop externally funded research programs in any of the above-mentioned areas. They will be expected to direct graduate students and contribute to both the undergraduate (Biological Sciences and/or Microbiology major) and graduate teaching missions of the department. A Ph.D. in a related biological sciences field is required with post-doctoral experience preferred. To apply, send a CV plus reprints of three representative publications, a concise (one page) statement on current and future research interests, and a concise statement on teaching interests and competence. Arrange for at least 3 letters of reference to be submitted on behalf of the applicant. Send applications (hard copy) to Dr. Nancy Reichert, Head, Department of Biological Sciences P.O. Box GY, Mississippi State University, Mississippi State, MS 39762; or electronically to FacultySearch@biology.msstate.edu. Mississippi State University is an Affirmative Action/Equal Opportunity Employer

Mark E. Welch, Ph.D. Assistant Professor Dept. of Biological Sciences Mississippi State University P.O. Box GY Mississippi State, MS39762

E-mail: mark.welch@msstate.edu Phone: 662.325.7564 Fax: 662.325.7939

mw497@msstate.edu mw497@msstate.edu

stitut National de Recherche en Agronomie (INRA). Researches will focus on species coexistence in plant-parasitic nematode communities due to stochastic and determinist processes (interspecific interactions, biological traits and adaptation to environment, invasions, dynamics of extinction and colonisation, migration, ecological drift, etc.). This researcher will benefit from researches currently underway on plant-parasitic nematodes in CBGP (<http://www.montpellier.inra.fr/-CBGP/modelesbiologiques.htm>), from the scientific dynamics offered by the different thematic networks developed in the research unit as taxonomy and systematics, phylogeny and phylogeography, population genetics, interaction, adaptation and speciation of populations, community ecology (http://www.montpellier.inra.fr/-CBGP/groupe_reflexion.htm) and from the scientific environment which prevails in Montpellier - in particular see the IFR "Biodiversit" to which the CBGP is attached: http://www.biodiversite-montpellier.org/-page.php?id_rubrique&id_ifr=4. Anyone (French or foreigner) working on ecology and evolution of populations in communities, interested in our unit and wishing to apply through such competitive entry is invited to contact Thierry Mateille (mateille@mpl.ird.fr, Tel.: +33 (0)499623313) or Denis Bourguet (bourguet@supagro.inra.fr, Tel.: +33 (0)499623366). Do not hesitate to forward this announcement to the attention of students reaching the end of their PhD and/or post-doctorate periods.

Thierry MATEILLE IRD - UMR 1062 INRA/IRD/SUPAGRO/CIRAD CBGP - Campus de Baillarguet - CS 30016 34988 Montferrier-sur-Lez Cedex tl. 33 (0)4 99 62 33 13 / 33 (0)4 99 62 33 77 fax 33 (0)4 99 62 33 45 email: mateille@mpl.ird.fr email: mateille@supagro.inra.fr www.montpellier.inra.fr/-CBGP www.cilba.agropolis.fr/Intro.html Thierry MATEILLE <mateille@mpl.ird.fr>

Montpellier EvoProcesses in communities

The Centre de Biologie et de Gestion des Populations (CBGP, <http://www.montpellier.inra.fr/CBGP>) in Montpellier intends to recruit a scientist (Chargé de Recherche± rank) specialized in ecological and evolution processes in communities. The position would be opened in 2008 or 2009, by means of competitive entry offered by the French Institut de Recherche pour le Développement (IRD) or by the French In-

NorthCarolinaStateU PlantEvolution

PLANT EVOLUTIONARY ECOLOGIST

Rank: Assistant Professor Split: 60% Academic Programs, 40% Research Duties: Teaching and Research in plant evolutionary ecology/biology

Description:

The Department of Plant Biology at North Carolina State University invites applications for an Assistant

Professor position in the area of Plant Evolutionary Ecology. This position is a 12 month, tenure-track position with responsibilities divided between teaching and research. We seek an individual using macro- or microevolutionary approaches to address plant evolution in an ecological context. Areas of emphasis may include coevolution, speciation, and evolution of life history or other traits. The individual is expected to develop a productive, extramurally funded research program that enhances and complements existing programs in the Department, College, and University. This position will be responsible for teaching a general undergraduate Evolutionary Biology course once a year, appropriate for students majoring in biological sciences. Additional teaching contributions may include graduate seminar classes or contributions to team-taught courses in the applicant's area of expertise.

We are the basic plant biology department in the NC State University College of Agriculture and Life Sciences, serving as the focal point for several interdepartmental and interdisciplinary programs in research, teaching, and graduate training. Areas of research interest within the department include ecology, systematics, paleobotany, phytochemistry, functional genomics, and cellular, molecular, and developmental biology. The department has a long tradition of research and teaching in aquatic, community, and physiological plant ecology.

The Herbarium at NC State University has 130,000 specimens of vascular plants, mainly representing the southeastern US. Other available facilities include a phytotron, electron microscopy center, cell and molecular imaging facility, genomics research laboratory, and a variety of field research stations, including a network of experimental farms. Opportunities exist for collaborative efforts in evolutionary and ecological research spanning a variety of disciplinary areas across departments in several colleges. NC State University faculty also interact extensively with colleagues at UNC-Chapel Hill and Duke University through seminars and symposia, including those sponsored by the NC Consortium for Plant Molecular Biology. NC State University is one of the three host universities to the National Evolutionary Synthesis Center (NESCent). For further information about the Department, please visit our website: <http://cals.ncsu.edu/plantbiology/>. Candidates must have a PhD degree in plant biology or related discipline, with expertise in plant evolutionary biology and a record of peer-reviewed publications and scholarly accomplishments commensurate with experience. Postdoctoral and teaching experience are preferred. To apply, please go to jobs.ncsu.edu and search for position number EPV 01-05-0705. Applicants should attach to the on-

line application: a CV and a statement of research and teaching interests. In addition, applicants should arrange for three letters of recommendation to be sent to: Dr. Thomas Wentworth, Chair, Plant Evolutionary Ecology Search Committee, Department of Plant Biology, North Carolina State University, Raleigh, NC, 27695-7612 (email: tom_wentworth@ncsu.edu). Applications received prior to Dec. 1, 2007 will be assured of full consideration. The position is available July 1, 2008.

North Carolina State University is an Equal Opportunity Employer. Individuals with disabilities desiring accommodations in the application process should contact Carol Apperson, Department of Plant Biology, carol_apperson@ncsu.edu, phone (919) 513-3809.

Qiu-Yun (Jenny) Xiang Associate Professor Department of Plant Biology North Carolina State University Raleigh, NC 27695-7612 919-515-2728 (phone) 919-515-3436 (Fax) Jenny_xiang@ncsu.edu <http://www4.ncsu.edu/~qyxiang> qyxiang@ncsu.edu

Northern Arizona U ResTech Microbial Evolution

Research Technician - Northern Arizona University

The Leid Laboratory, part of the Center for Microbial Genetics and Genomics at Northern Arizona University, is seeking an entry level Research Technician. Experience with diverse microbial culture, storage and maintenance, DNA/RNA isolation, Real Time PCR analysis, molecular genetic data analysis, excel spreadsheet utilization, fluorescent DNA fragment analysis and previous work under BSL2 conditions are desired qualifications. Supervisory experience is also a plus. Candidates should have a Bachelors degree in an appropriate field, with any of the above listed experiences. Dr. Leid's laboratory is located at 7,000 feet above sea level on the mountain campus of Northern Arizona University in Flagstaff, AZ. For more information and application materials, contact the NAU Human Resources Department at 928-523-2223, HR.Contact@nau.edu, or go to the NAU HR Jobs website at <http://hr.nau.edu/> Reference Vacancy #557257

James M. Schupp Assistant Director Center for Microbial Genetics and Genomics Northern Arizona University Box 5640 Flagstaff, AZ 86011-5640 928-523-1120 928-853-7816 CELL 928-523-0639 FAX

James.Schupp@NAU.EDU

Jim Schupp <James.Schupp@nau.edu>

PurdueU CompBiolDirector

Core Director of the Computational Biology Core Facility, Purdue University

Description This position is responsible for strategic planning and management of the daily operations of the Computational Biology Core (CBC) Facility. This includes development of the user community and management of computational biology services. Responsible for goal setting, fiscal planning and oversight, budget adherence, program administration, project management, and staff supervision. Act as a liaison between Purdue research professionals, CBC staff and University administration. Collaborate with faculty, students and staff to solve research problems, to help to organize research programs and to analyze and report data.

Requirements Master's degree in Life Sciences is required. Must have four years experience in bioinformatics and/or an experimental science sufficient to establish a solid background in both computational and experimental fields. Experience in Computational Biology, and its application in Life Sciences, and proven experience with scientific analysis using state of the art computational equipment are also required. Must be able to effectively communicate and work with faculty to support current projects and acquire new funding, and with programming and technical staff to develop computational solutions. Candidate must possess the ability to: balance multiple interruptions; schedule varied tasks; handle confidential information with discretion; take the initiative to solve problems, and establish and maintain quality standards. Knowledge of fiscal planning and the ability to manage several simultaneous team projects is required. The ability and interest developing a dynamic user-oriented core facility, including development and implementation of a strategic plan is essential. Must be able to initiate new project proposals and obtain third party funding (grants). Excellent communication skills and time management skills are also necessary. Must be able to lift and carry 10 to 25 pounds frequently and 40 pounds occasionally.

Preferred: Ph.D. preferred. Experience in a life science field such as molecular biology, biochemistry, genomics, or systems biology is highly desirable. Management and supervisor experience, experience maintaining budgets,

and experience working within a recharge facility preferred. Experience with facility operation desirable.

For more information on this position and to apply, please visit www.purdue.edu/jobs < <http://www.purdue.edu/jobs> > .

Purdue University offers a competitive benefits package including employer-funded retirement plans, up to 22 days of paid vacation per year, and medical insurance. For more information on Purdue University benefits, please visit www.purdue.edu/benefits < <http://www.purdue.edu/benefits> > .

Purdue University is an equal access/equal opportunity/affirmative action employer fully committed to achieving a diverse workforce.

J. Andrew DeWoody 1159 Forestry Building Purdue University West Lafayette, IN 47907 765-496-6109 765-496-2422 (fax)

dewoody@purdue.edu

PurdueU MolEvol

Faculty Position in Molecular Evolution Department of Biological Sciences Purdue University

The Department of Biological Sciences invites applications for a tenure-track faculty position in Molecular Evolution. The successful candidate will have a strong background in comparative genomics, theoretical population genetics, phylogenetics, or evolutionary genetics, and a research focus on evolution at the cellular or molecular level. Areas of interest include, but are not limited to, evolutionary processes relating to host-pathogen interactions, developmental and cellular regulatory systems, metabolic systems, genome evolution, or macromolecular structure and function. We expect to fill an academic year appointment at the Assistant Professor level; however appointment at a higher rank may be considered for qualified applicants.

The Department of Biological Sciences (<http://www.bio.purdue.edu>) has over 50 faculty members directing research in a wide range of fields including computational biology, structural biology, molecular, cellular and developmental biology, ecology, evolution, and population biology. Candidates with applied or theoretical research interests in molecular evolution as it applies to any of these disciplines are encouraged to apply. As part of a campus wide initiative to expand

the Life Sciences, several new buildings have been completed or are under construction including the Jischke Hall of Biomedical Engineering, the Hockmeyer Hall of Structural Biology, and the Bindley Bioscience Center, which houses shared facilities for image analysis, genomics and proteomics. In addition to several faculty positions anticipated for the Department, the College of Science at Purdue is hiring faculty in interdisciplinary areas that span multiple departments including Biological Sciences (<http://www.science.purdue.edu/hiring/>).

The successful Molecular Evolution applicant must have a Ph.D. or equivalent in an appropriate discipline and at least 2 years of postdoctoral experience. Applicants are expected to develop an externally funded research program and must be committed to excellence in undergraduate and graduate level teaching. Applications must be submitted electronically using links found at (<http://www.bio.purdue.edu/>) and should include a detailed curriculum vitae, the names and addresses of three referees, a summary of research interests and a one-page teaching statement. Inquiries should be directed to Prof. Michael Gribskov, Chair, Molecular Evolution Search Committee, Department of Biological Sciences, Purdue University, 915 W. State St., West Lafayette, IN 47907-2054. Review of applications will begin on October 1, 2007, and will continue until a suitable pool of applicants has been identified.

Purdue University in an Equal Opportunity/Equal Access/Affirmative Action employer fully committed to achieving a diverse workforce.

Krista M. Nichols Assistant Professor Purdue University Departments of Biological Sciences & Forestry and Natural Resources 915 W State Street West Lafayette, IN 47907 765.496.6848 (phone) 765.494.0876 (fax)

kmnichol@purdue.edu kmnichol@purdue.edu

SamHoustonStateU EvolGeneticist

Geneticist (Assistant Professor, Tenure Track): The Department of Biological Sciences of Sam Houston State University is searching for candidates with research focus in genetics, including population, molecular, quantitative, or evolutionary and developmental genetics. Teaching responsibilities will include Introductory Genetics and development of upper-level and graduate courses in the area of expertise. Candidate is expected to develop an externally-funded research program involving graduate and undergraduate students.

A doctoral degree is required, with post-doctoral experience preferred.

Sam Houston State University is located in Huntsville, TX, 60 miles north of the Houston metroplex. The school is a comprehensive university of over 16,000 students. The Department of Biological Sciences offers Bachelors and Masters degrees in Biology, a Bachelors degree in Environmental Science, and an interdisciplinary Masters degree in Forensic Science. Currently there are 16 full-time faculty members and four staff-level support positions in the department. The department occupies modern teaching and research facilities with large scale computing capabilities, a field research station, BSLII labs, and equipment to support research in cell biology, molecular biology, ecology and systematics.

Send a letter of intent, curriculum vita, statement of teaching philosophy, statement of research plans, and three reference letters to Chris Randle, Genetics Search, Department of Biological Sciences, Sam Houston State University, Box 2116, Huntsville, TX, 77341. For further information, please visit <http://www.shsu.edu/~bio/www/>. Review of materials will begin November 16 and continue until filled. Sam Houston State University is an Equal Employment Opportunity/Affirmative Action Plan employer.

cpr003@shsu.edu cpr003@shsu.edu

SanDiegoZoo MammalianPhylogeny

Research Fellow - Zoological Society of San Diego: A Postdoctoral position is immediately available to contribute to the NSF-funded initiative Assembling the Tree of Life. Conserved primer sequences will be used to generate large data sets of orthologous sequences from diverse mammalian taxa to combine with morphological data and assemble a comprehensive mammalian phylogeny. Extensive experience in generating DNA sequence data and phylogenetic analysis of aligned data sets is highly desirable. The work will take place at the Beckman Center for Conservation Research which houses the Genetics Division at CRES - Conservation and Research for Endangered Species, part of the Zoological Society of San Diego. A Ph.D. is required. Complete information about the position and procedures for applying can be found at <http://www.sandiegozoo.org/jobs/index.html> orydr@ucsd.edu orydr@ucsd.edu

StanfordU EvolDevo

Department of Biological Sciences Evolutionary Developmental Biologist Faculty Position

The Department of Biological Sciences at Stanford University seeks applicants for a tenure track faculty appointment in Evolutionary Biology. We are primarily interested in making an appointment at the rank of Assistant or Associate Professor, but will also consider exceptional candidates at the rank of Professor. We seek applicants studying problems in any area of Evolutionary Biology; however those studying problems at the interface of Developmental and Evolutionary Biology are especially encouraged to apply. Applicants are expected to develop a vigorous research program and to participate in both undergraduate, graduate, and post-doctoral education and training. For information about the Department consult <http://biology.stanford.edu/>. Applicants are requested to provide a cover letter, a curriculum vitae including publication list, a statement of research accomplishments and future research plans, and a description of teaching experience. Junior candidates should arrange to have three letters of reference sent directly.

Applicant materials must be received by December 3, 2007. The appointment would begin September 1, 2008.

Interested candidates should apply online at AcademicJobsOnline.Org. If you have any questions, please, e-mail Dmitri Petrov at dpetrov@stanford.edu

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and minority groups, as well as others who would bring additional dimensions to the university's research, teaching and clinical mission.

– Dmitri A. Petrov Associate Professor Department of Biological Sciences Stanford University Stanford, CA 94305-5020

dpetrov@stanford.edu <http://petrov.stanford.edu>
(650) 736 1169 (office) (650) 736 2249 (lab)

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

StanfordU EvolutionaryBiologist 2

Dear Evoldir Members–

I have received a number of inquiries about the scope of this job advertisement. I would like to emphasize that we are searching broadly in Evolutionary Biology (i.e. “The Department of Biological Sciences at Stanford University seeks applicants for a tenure track faculty appointment in Evolutionary Biology” and “We seek applicants studying problems in any area of Evolutionary Biology”) and will seriously consider any candidate who works in any area of evolutionary biology even if they do not work in the field of evolution of development.

We do specifically encourage applications of those who work in the evolution of development. However, we construe this field more broadly than what is conventional understood by *evodevo*. We define the field to include any work focused on understanding mechanisms of phenotypic evolution.

The ad:

Department of Biological Sciences Evolutionary Developmental Biologist Faculty Position

The Department of Biological Sciences at Stanford University seeks applicants for a tenure track faculty appointment in Evolutionary Biology. We are primarily interested in making an appointment at the rank of Assistant or Associate Professor, but will also consider exceptional candidates at the rank of Professor. We seek applicants studying problems in any area of Evolutionary Biology; however those studying problems at the interface of Developmental and Evolutionary Biology are especially encouraged to apply. Applicants are expected to develop a vigorous research program and to participate in both undergraduate, graduate, and post-doctoral education and training. For information about the Department consult <http://biology.stanford.edu/>. Applicants are requested to provide a cover letter, a curriculum vitae including publication list, a statement of research accomplishments and future research plans, and a description of teaching experience. Junior candidates should arrange to have three letters of reference sent directly.

Applicant materials must be received by December 3, 2007. The appointment would begin September 1, 2008.

Interested candidates should apply online at AcademicJobsOnline.Org. If you have any questions, please, e-mail Dmitri Petrov at dpetrov@stanford.edu

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and minority groups, as well as others who would bring additional dimensions to the university's research, teaching and clinical mission.

– Dmitri A. Petrov Associate Professor Department of Biological Sciences Stanford University Stanford, CA 94305-5020

dpetrov@stanford.edu <http://petrov.stanford.edu>
(650) 736 1169 (office) (650) 736 2249 (lab)

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

StKilda FieldAssit SoaySheep

Please could this be placed on your web site -

SOAY SHEEP RESEARCH - ST KILDA RUT 2007
FIELDWORK ASSISTANT

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

Activities:

- Censusing sheep with telescopes and hand-held computers - Mortality searches - Observation of rutting behaviour

Requirements:

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

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

If you wish to apply for this work then please send a CV

with covering letter, contact phone number and details of two referees than can be contacted immediately by email.

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

UAlabama InvertSystematics

THE UNIVERSITY OF ALABAMA

Department of Biological Sciences

We invite applications for a tenure-track Assistant Professor position in Systematic Invertebrate Zoology to begin August 2008. Candidates must have a Ph.D. and postdoctoral research experience whose research integrates modern molecular approaches to study the systematics, biogeography, and evolution of freshwater invertebrates. Candidates working on systematics of any group of freshwater invertebrates will be considered. Candidates will be expected to curate one of the freshwater invertebrate collections of Biological Sciences (e.g., Malacology, Decapods, etc.). Candidates must provide evidence of curatorial experience and/or other relevant abilities. Applicants are advised to view a more detailed job description at www.as.ua.edu/-biology prior to submitting their application package. Successful candidates will have demonstrated excellence in research and will be expected to attract extramural funding. Candidates must be committed to excellence in teaching and training of undergraduate and graduate students. Opportunities for interactions exist through the Center for Freshwater Studies, Coalition for BioMolecular Products, and Alabama Museum of Natural History. Applicants should arrange to have three reference letters sent directly to the address below. In addition, applicants should mail hardcopies of curriculum vitae, statements regarding research goals, teaching philosophy and interests, evidence of curatorial experience, and copies of significant publications to: Invertebrate Systematist Search Committee, Department of Biological Sciences, Box 870344, The University of Alabama, Tuscaloosa, AL 35487. Review of applications will begin January 2, 2008, and will continue until the position is filled. The University of Alabama is an Affirmative Action/Equal Opportunity Employer. Women and/or Minorities are encouraged to apply.

Thanks very much, Phillip M. Harris, Ph.D. Assis-

tant Professor and Curator of Fishes Dept. of Biological Sciences Box 870345 The University of Alabama Tuscaloosa, AL 35487-0345

Phone: 205-348-1831 FAX: 205-348-6460

pharris@bama.ua.edu

<http://bama.ua.edu/~pharris/lab> pharris@bama.ua.edu

UCaliforniaLosAngeles Biomathematics

I strongly encourage theoretical population geneticists, phylogeneticists and mathematically-inclined evolutionary biologists to consider this position; the UCLA Biomathematics department has a very strong mathematical genetics group.

best, Marc Suchard

formal posting follows:

The Department of Biomathematics at the David Geffen School of Medicine at UCLA invites applications for a tenure-track assistant professorship starting July 2008 in the area of theoretical, mathematical, or computational biology. Exceptional senior applicants will also be considered for appointment at the tenured level.

The Department seeks strong theoreticians/modelers whose research complements existing strengths in mathematical genetics, systems biology, biophysical modeling, imaging, and pharmacokinetics. Special areas of interest include, but are not limited to, the neurosciences, physiological modeling, biophysical modeling at the cellular and molecular level, and theoretical systems biology. The Department has collaborative ties with researchers in biology, medicine, mathematics, physics, chemistry, computer science and engineering, as well as the Institute for Pure and Applied Mathematics. We desire applicants with applied interests in biology or biomedicine and who have a potential for innovative interdisciplinary research furthering these interactions. A Ph.D. degree in areas such as applied mathematics, theoretical biophysics, theoretical physical chemistry, or the engineering sciences, and evidence for effective teaching and communication are required, as is a track record of publication in biology or medicine. Teaching duties are typically two graduate courses per year.

Applications will be screened beginning November 15,

2007, and accepted until the position is filled. Applicants should submit: a curriculum vitae; a summary of research and teaching accomplishments and goals; and names and addresses of three to five individuals for letters of recommendation. Submit applications by e-mail to faculty-search@biomath.ucla.edu, or through <http://www.Mathjobs.org> The University of California is an Equal Opportunity/Affirmative Action Employer. The Department has a strong commitment to the achievement of excellence and diversity among its faculty, staff, and students.

Marc A. Suchard, M.D., Ph.D. Assistant Professor Departments of Biomathematics and Human Genetics David Geffen School of Medicine at UCLA Department of Biostatistics UCLA School of Public Health Gonda (Goldschmied) Neuroscience and Genetics Research Center, Rm 6558 695 Charles E. Young Dr., South Los Angeles, CA 90095-7088 (310) 825-7442 msuchard@ucla.edu

UCaliforniaSanDiego MolEvol

Molecular Evolution

University of California San Diego Section of Ecology, Behavior & Evolution Division of Biological Sciences <http://www-biology.ucsd.edu/> We invite applications for a position in molecular evolution. Applications from junior candidates are strongly encouraged although tenured scientists will be considered. Area of scholarship is open. We are particularly interested in candidates working in the areas of genome evolution, functional genomics, the genetics of adaptation, evo-devo, microbial evolution, and computational biology. We seek candidates who will complement our existing strengths in molecular evolution and who will make connections to other areas of research strength at UCSD such as the Venter Institute. Applicants should demonstrate outstanding records of research achievement, and be able to attract significant extramural research support. The appointee is expected to participate fully in departmental affairs and teaching.

Level of appointment will be commensurate with qualifications and experience. Salary will be based on published UC pay scales. Review of applications will begin November 1, 2007 and will continue until the position is filled. Applications should comprise a single .pdf file containing a CV, copies of recent publications, and statements of research and teaching interests. The

application and three letters of reference should be sent to ebearcha@ucsd.edu with EBE Molecular Evolution as the subject line. Applicants are welcome to include in their cover letters a personal statement summarizing their contributions to diversity. UCSD is an EO/AA employer with a strong institutional commitment to excellence through diversity.

Ecology

University of California San Diego Section of Ecology, Behavior & Evolution Division of Biological Sciences <http://www-biology.ucsd.edu/> The EBE section and the Division of Biological Sciences are committed to building a strong program in environmental biology to meet the key challenges of the 21st century. We seek applications from scientists working to understand and solve ecological problems both locally and globally that are caused by human impacts. Applications from junior candidates are strongly encouraged although tenured scientists will be considered. Area of scholarship is open, but we are particularly interested in candidates working in the areas of global change biology and human impacts on community structure and dynamics. Applicants should demonstrate outstanding records of research achievement, and be able to attract significant extramural research support. The appointee is expected to participate fully in departmental affairs and teaching.

Level of appointment will be commensurate with qualifications and experience. Salary will be based on published UC pay scales. Review of applications will begin November 1, 2007 and continue until the position is filled. Applications should comprise a single .pdf file containing a CV, copies of recent publications, and statements of research and teaching interests. The application and three letters of reference should be sent to ebearcha@ucsd.edu with EBE Ecology as the subject line. Applicants are welcome to include in their cover letters a personal statement summarizing their contributions to diversity. UCSD is an EO/AA employer with a strong institutional commitment to excellence through diversity.

–

Joshua Kohn <jkohn@ucsd.edu>

UCopenhagen
EvolutionaryMedicine 2

Associate Professorship in Evolutionary Medicine (3 year appointment)

As part of a special initiative by the Danish National Research Foundation for recruiting top talent from abroad, a position as temporary Associate Professor in Evolutionary Medicine is available with 1 May 2008 as preferred starting date. The position will be associated with the Centre for Social Evolution (CSE) (<http://www.bi.ku.dk/cse/> < <http://www.bi.ku.dk/cse/> >) and be located within the Department of Biology of the University of Copenhagen. Information about the Department can be found at <http://www.bi.ku.dk> < <http://www.bi.ku.dk> > . Inquiries concerning the position can be made to Professor Jacobus J. Boomsma, Department of Biology, Universitetsparken 15, DK - 2100 Copenhagen Ø, Denmark; Phone (+45 35321340; E-mail: JJBoomsma@bi.ku.dk <mailto:JJBoomsma@bi.ku.dk>

The appointee is expected to pursue a vigorous research program in a cutting edge area of Evolutionary Medicine, based on personal expertise developed during relevant PhD and postdoctoral work. Association with CSE, one of the Centers of Excellence at the Institute of Biology, will imply an attractive academic environment, with researchers from many different countries and with English as the working language. Potential to initiate collaborative research with other Copenhagen centers of excellence, e.g. The Center for Comparative Genomics (<http://www.evolutionarygenomics.dk/comparativegenomics/> < <http://www.evolutionarygenomics.dk/comparativegenomics/> >), The Wilhelm Johannsen Centre for Functional Genome Research (<http://www.wjc.ku.dk/> < <http://www.wjc.ku.dk/> >), The Centre for Medical Parasitology (<http://www.cmp.dk/> < <http://www.cmp.dk/> >), or The Center for Macroecology (<http://www.macroecology.ku.dk/> < <http://www.macroecology.ku.dk/> >) will be considered an asset.

The successful candidate will play a key role in developing Evolutionary Medicine as an interdisciplinary field in connection to a wider program that is currently being promoted by the International Association of Research Universities as part of an 'Ageing, Longevity and Health' initiative (<http://ageing.iaru.ku.dk/> < <http://ageing.iaru.ku.dk/> >), in collaborations with, among others, researchers from Berkeley, Cambridge, Oxford, ETH Zürich, Tokyo and Yale. The appointee will be expected to co-organize a (already fully funded) workshop on Evolutionary Medicine to bring these researchers together in Copenhagen in autumn 2008.

The appointee will have access to excellent departmen-

tal laboratory facilities and will have a competitive package of core funding for travel and consumables. A 3-year PhD fellowship in the area of expertise of the applicant is available and can be advertised to start shortly after the appointee has arrived in Copenhagen.

The successful candidate is expected to develop an MSc-level course in Evolutionary Medicine and to make contributions to PhD-level courses in related fields.

The position will be for 3 years. The likelihood that a permanent position with the same profile will be advertised ca. two years after the start of the appointee's contract is high.

Terms of appointment and payment follow the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State. Salary will be about 33,000 Dkr per month, with an additional 17.1% pension allowance. Foreign nationals employed in research positions are likely to be entitled to a flat rate taxation of 25% during their first three years of residence in Denmark

Applications must be in English and include, in the following order: 1. Curriculum vitae 2. Description (max. 5 pages) of current and proposed research including its possible interfaces with other research programs at the University 3. Documentation of teaching experience and other qualifications 4. Full contact details (name, address, telephone & email) of 2 referees 5. Complete list of publications with indication of which papers (max. 10) the applicant considers particularly relevant

The university welcomes applications from qualified candidates regardless of age, gender, race, religion or ethnicity. The original application must be sent to: Rector of the University of Copenhagen, Faculty of Science, Attn: 211-0123, Øster Voldgade 3, DK-1350 Copenhagen K. Three copies of the application, including three copies of each of the papers (max. 10) the applicant considers particularly

— / —

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>

UGeorgia PlantQuantGenet

FACULTY POSITION IN PLANT QUANTITATIVE

AND ASSOCIATION GENETICS

The Departments of Plant Biology and Genetics at the University of Georgia have committed to recruiting several additional faculty in the area of plant genomics. In the past two years, the University has hired seven new faculty in this field, and additional hires in this area of excellence are planned. This year, we invite applications for a tenure-track position at the level of Assistant Professor investigating the quantitative and association genetics of plants. We are seeking a scientist using molecular genetic, genomic and/or bioinformatic approaches to study fundamental questions in plant biology. For information about the Departments, see www.plantbio.uga.edu and www.genetics.uga.edu.

A single PDF document containing the application should be uploaded directly to <http://www.plantbio.uga.edu/positions.html>. This single PDF file should include a cover letter, CV, and brief statements of research and teaching interests. Three letters of recommendation should also be sent by the recommenders as a PDF file either to the url listed above, to the e-mail address quantgen@plantbio.uga.edu, or as a hard copy to the Plant Quantitative and Association Genetics Search Committee, Department of Genetics, Davison Life Sciences Building, University of Georgia, Athens, GA 30602-7223. Review of applications will begin on November 5, 2007. To receive full consideration, applications must be completed by December 14, 2007.

The University of Georgia is an AA/EEO institution. The Departments of Plant Biology and Genetics and the Franklin College of Arts and Sciences are committed to increasing the diversity of their faculty and strongly encourage applications from individuals in under-represented groups in the life sciences.

Jim Leebens-Mack Department of Plant Biology University of Georgia Athens, GA 30602-7271

Phone: 706-583-5573 Fax: 706-542-1805 email: jleebensmack@plantbio.uga.edu url: <http://www.plantbio.uga.edu/~jleebensmack/JLMmain.html>
jleebensmack@plantbio.uga.edu jleebensmack@plantbio.uga.edu

UGuelph LabManager Barcoding

Lab Manager Position at the Canadian Centre for DNA Barcoding

Location: Canadian Centre for DNA Barcoding, Biodiversity Institute of Ontario, University of Guelph, Guelph, Ontario, Canada.

Responsibilities: The Canadian Centre for DNA Barcoding invites applications for an experienced scientist to work as a Laboratory Manager for a high-throughput facility for the production of DNA barcodes.

The position of Laboratory Manager encompasses maintaining day to day operations of the lab, including ordering of supplies, overseeing/initiating minor and major repairs to equipment and supervising technical staff to ensure production quotas are met. Other areas which laboratory manager may be involved in are establishing/implementing operational policies and procedures for the laboratory, training of staff, conducting research development and enforcement of set policies and procedures.

Research in our lab utilizes high-volume DNA isolation protocols optimized for use with robotic liquid handling systems. Barcode sequencing is performed using two ABI 3730xl sequencers. DNA extraction, amplification and sequencing are performed by technicians working within a Laboratory Management System (LIMS), while sequence editing and analysis occur in closer collaboration with the supervising researcher. Applicants should be well-rounded individuals with an MSc and experience in molecular biology and genetics background and strong time management skills.

*Molecular biology: Preparation of DNA extractions, PCR, DNA sequencing, and DNA sequence analysis. Use of robotics will be required, but training can be provided.

*Computer work: Data analysis using a variety of software packages. Utilize molecular biology software (e.g. primer design, sequence alignment, database searches, etc.), and analysis of data using Barcode of Life Data-systems (BOLD) software.

Qualifications: M.Sc in molecular biology or related field. Experience with running a laboratory, and coursework in genetics are an asset. Closing Date: Open until filled.

Contact: Send cover letter, résumé, to Dr Alex Smith, Biodiversity Institute of Ontario, Integrative Biology, University of Guelph, Guelph Ontario, N2G 1W1 or e-mail materials to salex@uoguelph.ca

– M. Alex Smith PhD Research Program Coordinator Biodiversity Institute of Ontario 579 Gordon Street University of Guelph Guelph, Ontario, Canada N1G 2W1 phone - 519-824-4120 ex 52007 fax - 519-824-5703 www.biodiversity.ca www.barcodinglife.org

saalex@uoguelph.ca saalex@uoguelph.ca

UGuelph LabTech Barcoding

Lab Technician Position at the Canadian Centre for DNA Barcoding

Location: Canadian Centre for DNA Barcoding, Biodiversity Institute of Ontario, University of Guelph, Guelph, Ontario, Canada.

Responsibilities: The Canadian Centre for DNA Barcoding invites applications for technicians to work with scientists conducting research in species discovery and identification in a wide range of taxa using DNA barcodes. Research in our lab utilizes high-volume DNA isolation protocols optimized for use with robotic liquid handling systems. Barcode sequencing is performed using two ABI 3730xl sequencers. DNA extraction, amplification and sequencing will generally be performed by a technician working independently within a Laboratory Management System (LIMS), while sequence editing and analysis will be performed in closer collaboration with the supervising researcher. Applicants should be well-rounded individuals with a molecular biology and genetics background and strong time management skills.

*Molecular biology: Preparation of DNA extractions, PCR, DNA sequencing, and DNA sequence analysis. Occasional use of robotics may be required, but training can be provided.

*Computer work: Data analysis using a variety of software packages. Utilize molecular biology software (e.g. primer design, sequence alignment, database searches, etc.), and analysis of data using Barcode of Life Data-systems (BOLD) software. Qualifications: B.Sc. or M.Sc in molecular biology or related field. Coursework and/or experience in genetics.

Closing Date: Open until filled. Preferred starting date January 01, 2008.

Contact: Send cover letter, résumé, addressed to Dr Alex Smith, Biodiversity Institute of Ontario, Integrative Biology, University of Guelph, Guelph Ontario, N2G 1W1 or e-mail materials to saalex@uoguelph.ca

– M. Alex Smith PhD Research Program Coordinator Biodiversity Institute of Ontario 579 Gordon Street University of Guelph Guelph, Ontario, Canada N1G 2W1 phone - 519-824-4120 ex 52007 fax - 519-

824-5703 www.biodiversity.ca www.barcodinglife.org
 salex@uoguelph.ca salex@uoguelph.ca

UHawaii EvolDevo

EVOLUTIONARY DEVELOPMENTAL BIOLOGIST

The Department of Zoology, University of Hawaii invites Evolutionary Developmental Biologists to apply for a tenure-track ASSISTANT or ASSOCIATE PROFESSOR position. Teaching responsibilities will include an advanced undergraduate course in developmental biology and a graduate course in the individual's specialty. Applicants must have a PhD and relevant post-doctoral experience, evidence of significant research accomplishments, and a commitment to excellence in teaching. Desirable qualifications include college teaching experience, research that interfaces developmental and evolutionary biology, evidence of successful grantsmanship, management of a research project, ability to interface with a diverse range of faculty interests and to work with an ethnically diverse student population. To apply: Send letter of application, curriculum vitae, statement of research accomplishments and goals, reprints of three publications, and names of three references to: Search Committee Department of Zoology, 2538 McCarthy Mall; University of Hawaii, Honolulu HI 96822. Closing date: November 2, 2007.

– aloha!

:) mqm

Mark Q. Martindale Kewalo Marine Lab PBRC/Univ. of Hawaii 41 Ahui St. Honolulu, HI, 96813

mqmartin@hawaii.edu

(808) 539-7330 (office) (808) 539-7326 (lab) (808) 599-4817 (FAX)

<http://www.kewalo.hawaii.edu/labs/martindale/-index.html> mqmartin@hawaii.edu

UMaryland EvolBiol

THE UNIVERSITY OF MARYLAND, DEPARTMENT OF BIOLOGY seeks tenure-track faculty working in the following areas:

Evolutionary Biology (rank open) - we seek individuals using empirical, experimental, theoretical or computational approaches. This includes, but is not limited to, genome evolution, speciation, the evolution of disease and the evolution of development. Successful candidates will have developed, or demonstrated the potential to develop, an outstanding research program and will teach within our undergraduate and graduate programs.

Ecology (Associate or Full Professor) - we seek individuals leading outstanding research programs addressing questions of broad significance in ecology or conservation biology using empirical, experimental and/or theoretical approaches. The successful candidate will teach within her/his area of research expertise within our Ph. D. programs and will direct the high-profile Sustainable Development and Conservation Biology (CONS) M.S. program. Significant instructional and administrative support will be available to facilitate operation of the CONS program (www.chemlife.umd.edu/cons) so that the Director can maintain a vibrant and productive research program.

Successful candidates will complement a vibrant group of researchers within the College of Chemical and Life Sciences and the Center for Bioinformatics and Computational Biology. The College has recently completed construction of a 155,000 sq. ft. Bioscience Research Building. Our proximity to Washington, Baltimore, and the Maryland Biotechnology Corridor facilitates interactions with an extraordinary range of major research institutions. For more information visit our web site at www.chemlife.umd.edu/biology. To apply send PDF files of a C.V., statements of research and teaching interests, sample publications, and the names and addresses of three references to ebsearch@umd.edu (Evolutionary Biology only) or ecosearch@umd.edu (Ecology only). Consideration of submitted materials will commence Dec 1st. 2007. The University of Maryland is an equal opportunity/affirmative action employer. Applications from minorities and women are encouraged.

Alexa Bely Assistant Professor Department of Biology 1210 Biology/Psychology Bldg. #144 University of Maryland College Park, MD 20742-4415 USA

email: abely@umd.edu phone: (301) 405-0225 (office) (301) 405-0239 / -0453 (lab) fax: (301) 314-9358 office: 0220 Biology/Psychology Bldg www.life.umd.edu/-biology/faculty/bely/BelyLab.htm abely@umd.edu

UMichigan FungalEvolSystematics

EVOLUTION AND SYSTEMATICS OF FUNGI, UNIVERSITY OF MICHIGAN

Assistant, Associate, or Full Professor/Curator

The Department of Ecology and Evolutionary Biology together with the University Herbarium seek applications for a tenured or tenure-track faculty position in the evolution and systematics of fungi. The position will have a university year appointment. Depending on rank, the successful candidate may be appointed to the Wehmeyer Chair in Fungal Taxonomy. We seek outstanding individuals whose primary research interests are in aspects of fungal evolutionary biology such as molecular evolution and systematics, evolution of adaptation, or evolution of development. We are especially interested in individuals who can place evolutionary processes in ecological contexts by collaborating with plant and microbial ecologists in the EEB department and with other systematists in the Herbarium and Museum of Zoology. Teaching may include a course in fungal evolution or diversity, and contributions to core courses in introductory biology, evolution, or genetics. The candidate will also provide scholarly leadership in the use of the Herbarium's outstanding research collection. For additional information, see www.eeb.lsa.umich.edu < <http://www.eeb.lsa.umich.edu/> > and www.herbarium.lsa.umich.edu < <http://www.herbarium.lsa.umich.edu/> > . Women and minorities are encouraged to apply. The University is supportive of the needs of dual-career couples.

To apply, send curriculum vitae, statements of current and future research plans and of teaching philosophy and experience, evidence of teaching excellence, and copies of publications to the address given below. In addition, junior candidates please arrange to have three reference letters sent to the address below or emailed to janesull@umich.edu. Senior candidates please provide the names of three references.

Chair, Fungal Evolution and Systematics Search Committee

Department of Ecology and Evolutionary Biology

The University of Michigan

830 N University

Ann Arbor, MI 48109-1048

Review of applications will begin on December 1, 2007. The University of Michigan is an equal opportunity, affirmative action employer.

Priscilla K. Tucker Professor, Ecology and Evolutionary Biology Curator, Museum of Zoology University of Michigan 1109 Geddes Ave. Ann Arbor, MI 48109-1079 phone: 734-647-2207

UNebraska

EvolutionComplexPhenotypes

University of Nebraska School of Biological Sciences
<http://www.biosci.unl.edu/> TENURE-TRACK POSITION Evolution of Complex Phenotypes

As seen in the 28 September issue of Science:

Tenure-track faculty position available in the School of Biological Sciences, University of Nebraska at ASSISTANT PROFESSOR level, for a person conducting integrative, functional studies on the evolution of complex phenotypes. Research focus should be primarily experimental, although a theoretical component would be welcome. Research on any taxon and level of biological organization, using any approaches. Examples include, but are not limited to, molecular, quantitative-genetic, endocrine, biochemical neurophysiological, and/or systems/genomic approaches to metabolic or cell signaling networks, interactions among cells or organs, or systemic regulators that underlie intraspecific variation in developmental, biochemical, behavioral, or life-history components of complex phenotypes. This position is part of a developing research cluster in integrative and systems biology at the University of Nebraska. The successful candidate will also be involved in undergraduate and graduate teaching in area of expertise. Applications will be considered until November 5, 2007, or until a suitable candidate is found. A Ph.D. in the life sciences is required and postdoctoral experience is preferred.

Start date January 2009; the position will remain open until a suitable candidate is selected.

To apply, log on to website: <http://-employment.unl.edu/> requisition #070765, and complete the faculty/administrative information form and attach curriculum vitae; cover letter; statement of research interests and teaching interests and philosophy; representative publications; and names, addresses,

and telephone numbers of three references. Arrange for three letters of reference to be sent by November 5, 2007, to: Dr. Alan Kamil, School of Biological Sciences, University of Nebraska-Lincoln, 348 Manter Hall, Lincoln, NE 68588-0118

For questions contact Tony Zera (azera1@unl.edu) or Larry Harshman (lharsh@unlserve.unl.edu)

Jay F. Storz School of Biological Sciences University of Nebraska Lincoln, NE 68588 Phone: 402/472-1114 E-mail: jstorz2@unl.edu

<http://www.biosci.unl.edu/faculty/Storz/index.html>

Jay F Storz <jstorz2@unlnotes.unl.edu>

UNewBrunswick PopGenet 2

Faculty Position in Population Genetics

The Department of Biology, University of New Brunswick (Fredericton), seeks applicants for a tenure-track position in Population Genetics. The successful candidate will develop a strong research program examining population genetics in any system. Teaching responsibilities will include a course in population genetics, involvement in core genetics or zoology teaching, and other teaching as negotiated. A PhD is required and post-doctoral experience is strongly preferred.

Existing research strengths in Biology include aquatic ecology and fish biology, conservation biology, and evolutionary biology. In addition, nearby regional and federal research groups in aquaculture, agriculture, and forestry offer opportunities for collaboration. Our faculty uses a full range of approaches including molecular biology, theoretical biology, and field organismal biology. Information about Biology at UNB is at www.unb.ca/fredericton/science/biology/. This position is subject to budgetary approval.

Applications will begin to be reviewed on October 19, 2007, and will remain open until a suitable applicant is identified with an anticipated start in July 2008. To apply, send a letter describing your research and teaching interests, a curriculum vitae with names, addresses, and e-mail contacts for three referees, representative publications, and a statement of teaching philosophy to:

Gary W. Saunders, Chair Dept. of Biology University of New Brunswick Bag Service 45111 Fredericton, N.B., Canada, E3B 6E1.

All qualified candidates are encouraged to apply; how-

ever, Canadians and permanent residents will be given priority. Applicants should indicate current citizenship status. The University of New Brunswick is committed to the principle of employment equity.

– Steve Heard sheard@unb.ca Professor & Associate Chair 506-452-6047 Dept. of Biology FAX 506-453-3583 University of New Brunswick

“Heard, Stephen Bruce” <sheard@unb.ca>

UNorthCarolinaWilmington ConservationBiol Virologist

Dear Brian,

Would you please post the following 2 tenure-track jobs on the EvoDir? We would be very interested, for the 1st position, in applications from conservation geneticists.

Thanks very much,

Michael McCartney

TWO ASSISTANT PROFESSOR POSITIONS CONSERVATION BIOLOGIST AND VIROLOGIST

The Department of Biology and Marine Biology at the University of North Carolina Wilmington invites applications for two tenure-track positions starting August, 2008.

Conservation biologist: Candidates in any sub-discipline of conservation biology are encouraged to apply.

Virologist: Candidates in any area of virology are encouraged to apply; however the successful candidate will teach courses in their area of expertise, immunology or another health related course.

Duties for both positions include undergraduate and graduate teaching, and maintaining an active research program that involves both graduate and undergraduate students. The Department offers a BA in Biology, BS and MS degrees in Biology and in Marine Biology, and a PhD in Marine Biology. Modern laboratories and diverse core facilities are available in the Department and at the Center for Marine Science (<http://www.uncw.edu/bio/> and <http://www.uncw.edu/cmsr/>). Candidates must have a Ph.D. and post-doctoral experience. To apply, com-

plete the online application available at <http://consensus.uncw.edu> < <http://consensus.uncw.edu/> > . The application package should include a letter of interest that must contain brief statements of teaching and research interests, a CV, and contact information for three references. MS Word and Adobe PDF documents are the preferred programs for attachments. The Chair of the Conservation Biologist search is Dr. Joseph Pawlik pawlikj@uncw.edu or (910-962-2377), and the Chair of the Virology search is Dr. Ronald Sizemore sizemorer@uncw.edu or (910-962-2304). For questions about the online application process, contact Ms. Tracie Chadwick chadwickt@uncw.edu or 910-962-3536. Application review will begin November 9, 2007. Under North Carolina law, applications and related materials are confidential personnel documents and not subject to public release. UNCW conducts criminal background checks on finalists prior to offers of employment. The Department is dedicated to promoting diversity in education. UNCW is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Michael A. McCartney Associate Professor Dept. of Biology and Marine Biology Center for Marine Science UNC Wilmington 5600 Marvin Moss Lane Wilmington, NC 28409 Phone 910-962-2391 Fax 910-962-2410 –

“Michael A. McCartney” <mccartneym@uncw.edu>

Uppsala SalixMolecularBreeding

A new position as Assistant Professor in molecular breeding of Salix is now announced at the Dept. of Plant Biology and Forest Genetics (Faculty of Natural Resources and Agricultural Sciences at SLU in Uppsala). The position will be within a new faculty project integrating different disciplines as molecular genetics, ecophysiology and plant breeding with focus on development of molecular markers for breeding of Salix. Attached the announcement of the position. The announcement is also available at: <http://personal.slu.se/jobb> . Best regards,

Ann Christin Ri $\frac{1}{2}$ nnberg-Wi $\frac{1}{2}$ stljung

Ann Christin Ri $\frac{1}{2}$ nnberg-Wi $\frac{1}{2}$ stljung, Assoc. Prof. (Docent) Department of Plant Biology and Forest Genetics Genetics Centre Swedish University of Agricultural Sciences, Box 7080, S-750 07 UPPSALA, SWEDEN

OBS! NEW PHONE NUMBER! Phone: +46-18 67 33 16 Fax: +46-18 67 33 89 E-mail: anki.wastljung@vbsg.slu.se

Anki.Wastljung@vbsg.slu.se

UppsalaU PopBiolConsBiol

Uppsala University hereby declares the following position to be open for application

Associate professor/Senior Lecturer in Population Biology and Conservation Biology

(with the possibility of being employed as a Professor)

at the Department of Ecology and Evolution, Population Biology and Conservation Biology

Description of position: The research area includes population biology and conservation biology. Population biology is the study of processes leading to the adaptation of organisms to their environment. A central theme is the maintenance of genetic variation and how it shapes phenotypes in conjunction with differential survival and reproduction. Conservation biology is the study of how natural and anthropogenic processes affect the diversity of phenotypes and the genetic diversity at the levels of individuals and populations.

Nature of duties: The position includes teaching at graduate and undergraduate level, research, and administration. Teaching duties include course responsibility, course administration and supervising of Ph.D. students. Teaching will primarily be in ecology, population biology and conservation biology at basic and advanced levels, but may also include teaching on other biology courses at the basic level. It is expected that the successful applicant follows the developments in the area of research and in the surrounding community, which are of relevance for the position. It is also expected that the applicant will actively participate in developing the research and education profile of the Department and seek to attract external funding.

Eligibility: To be eligible for a position as associate professor, the applicant must hold a Ph.D and have completed suitable pedagogical training for teaching at university level or have corresponding qualifications and pedagogical skills. Uppsala University's general employment regulations also require that teachers have any other skills which are necessary to carry out their duties proficiently.

The ability to teach in Swedish or English is a requirement. The successful candidate is expected to teach in Swedish within two years from appointment.

A person who is offered a position as associate professor/senior lecturer will be employed as professor if she/he has requested this and is subsequently judged to be sufficiently competent.

Ranking criteria: In ranking eligible candidates, equal importance will be given to scientific and teaching skills. When judging teaching skills, consideration will be given to experience and planning, carrying out and evaluating teaching and examinations, and supervising students. When judging scientific proficiency special importance will be attached to research qualifications in population biology with connection to conservation biology.

Under the University Ordinance, those filling a position as lecturer must also have demonstrated the teaching ability required for the post and furthermore, except in special circumstances, must have completed a programme of training relevant for teaching within the University. Candidates' teaching competence including the planning, carrying out and evaluation of teaching and examinations, as well as the supervision of students, will be evaluated. Documentation of teaching skills must be presented in a way that allows qualitative assessment.

The candidates aptitude in interacting with the surrounding community, informing people about research and development work, and the degree to which the candidate possesses administrative and other relevant skills are also important.

In filling this position the university aims to recruit the person who, in the combined evaluation of competence, skills and documented qualifications, is judged most suitable to carry out and develop the work-in-hand and to contribute to a positive development of the department.

* *

Personal circumstances that may be of positive relevance in merit evaluation, for example parental leave, should be mentioned in the list of qualifications (CV).

The university is striving for a more even gender balance in its research and teaching staff and women are especially invited to apply for this position.**

An applicant who has not completed suitable pedagogical training for teaching at university level or has corresponding qualifications will be employed for a maximum of two years. If the assistant professor/senior lecturer during the two years of employment acquires

pedagogical training for teaching at university level the employment will be permanent if the assistant professor/senior lecturer requests this.

How to apply: The application must be written in English and the applicant is required to submit ***three copies*** of documents (two copies of the ten indicated publications) according to instructions found on

— / —

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>

USouthCarolinaBeaufort EvoDevo

Please post the following position, as listed in Science. We would be interested in any specialty, but particularly those working zebrafish or evodevo in marine species. We are a PUI teaching university, but we have a brand new campus with great possibilities for research collaboration. We are located midway between Charleston and Savannah and very near Hiton head and the Waddell Mariculture Center which offers some excellent research facilities for large scale rearing of organisms.

The University of South Carolina Beaufort invites applications for a tenure-track faculty position in developmental biology. Candidates must apply molecular methods in teaching and research and can specialize in any area using any model or non-model system, although there is some preference for work with aquatic species. The successful applicant will be expected to teach undergraduate courses in general biology, developmental biology, and genetics.

Application procedures: Applicants must complete the Academic Personal Information form on-line at <https://uscjobs.sc.edu> and are required to submit a letter of application detailing interest in the position and teaching philosophy, curriculum vita, a copy of transcripts, and at least three letters of recommendation. Items required which cannot be submitted electronically should be mailed to Chair, Biology Search Committee, c/o Human Resources, USC Beaufort, One University Boulevard, Bluffton, SC 29909. Review of applications will begin November 2007

Contact Dr. Charles Keith, Professor and Dept Chair, 843 208-8108, KeithCH@gwm.sc.edu

Joseph L. Staton, Ph. D. Associate Professor of Biology/Marine Science University of South Carolina 1 University Boulevard Bluffton, SC 29909 Phone: 843-208-8105 Fax: 843-208-8294

“Ignorance more frequently begets confidence than does knowledge: it is those who know little, not those who know much, who so positively assert that this or that problem will never be solved by science.”

Charles Darwin

Joe Staton <jstaton@gwm.sc.edu>

USydney Bioinformatics MolGenetics

Research Fellow in Bioinformatics Centre for Infectious Diseases and Microbiology (CIDM) Reference No. 113619

The University of Sydney's Centre for Infectious Diseases and Microbiology (CIDM) was established as a centre of excellence for the provision of clinical and laboratory services, and to offer internationally competitive education and research programs, in Infectious Diseases and Microbiology. The CIDM sits within the Institute of Clinical Pathology and Medical Research at Westmead, and is renowned for its cutting-edge research relevant to prevention, diagnosis and patient care.

There is an appointment available for a Research Fellow to oversee a grant-funded project in biosurveillance of infections with epidemic potential. The appointee will plan research projects which will involve conducting literature reviews, establishing research methodology, preparing ethics applications and carrying out dry lab research.

With advanced computer skills and a familiarity with databases and data mining software, the appointee will develop a web based information system for the storage and management of molecular epidemiology data, curate molecular epidemiology data from pathogens with epidemic potential, and perform statistical analyses. Furthermore, the appointee will collect, review and analyse available evidence for the genotyping of pathogens, maintain accurate records of all test results and research/development work completed, and prepare manuscripts for publications and research grants.

With excellent written and verbal communication skills

and an ability to work well autonomously and as part of a team, the appointee will collaborate successfully with external and internal research groups, as well as train laboratory scientists in bioinformatics techniques and instruct junior laboratory staff.

To succeed, the appointee will possess a PhD in Biomedical Science or Computer Science/Mathematics, or a Masters in Bioinformatics or relevant field. Experience in research methodology and the preparation of manuscripts, reports and grant applications will be essential, as will a background in bioinformatics or translational biomedical research. Strong analytical skills with the proven ability to manage laboratory data and to take the lead in the publication of outcomes will also be required. Research experience in the area of Infectious Diseases and/or Microbiology, and knowledge of medical microbiology and molecular biology will be highly advantageous.

This is an outstanding opportunity to gain invaluable skills and experience that will solidify a successful career within a leading research centre.

The position is full-time fixed term for two 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.

Remuneration package: AUD 83,363 - 98,993 p.a. (which includes a base salary Lecturer Level B at AUD 70,443 - 83,651 p.a., leave loading and up to 17% employer's contribution to superannuation).

For more information or to apply online, please visit <http://position.usyd.edu.au> and search by reference number 113619. Specific enquiries about the role can be directed to Dr Vitali Sintchenko on (02) 9845 6255 or vsintchenko@usyd.edu.au. Enquiries about the recruitment process can be directed to Nikki Harrison on (02) 9036 7297.

Closing Date: 11.November.2007

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.

Postdoctoral Research Fellow in Molecular Genetics

(two positions available) School of Biological Sciences
Reference No. 114453

We are seeking two Postdoctoral Researchers to join in the multidisciplinary study of locust biology through the application of molecular genetics and functional genomics. Successful applicants will join a prominent international research team to study the genetic mechanisms and consequences of phenotypic plasticity in migratory behaviour that underlie the formation of devastating locust swarms.

The initial stages of this project will include the identification and characterisation of candidate behavioural genes using DNA microarrays, qRT-PCR, RNAi gene knockdown, and phenotyping using an automated behavioural assay. Additionally, a comparative framework for analyses of migration, plasticity and ecogenomics will be established through

— / —

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>

UTexasAustin FishEvolution

The following job advertisement (below) for a tenure-track Fish Ecologist (with an emphasis on marine fish ecology) was posted in Nature and Science about a month ago. The search is being delayed by several weeks, so we would like to solicit additional applications, with a new deadline of October 26. Information about the University of Texas at Austin's Marine Science Institute can be found at <http://www.utmsi.utexas.edu/> Job Advertisement: The University of Texas at Austin Department of Marine Science and Marine Science Institute invite applications for a faculty position in marine science. We seek candidates with demonstrated expertise and innovative research in: Fish Ecology, in areas that complement our existing strengths in physiology, larval fish studies studies, and basic mariculture. The most competitive candidate will make use of the Institute's excellent facilities for experimental work (including 36,000 sq. ft. of mariculture facilities) and proximity to a variety of estuarine and coastal habitats (including the 185,000-acre Mission-Aransas National Estuarine Research Reserve). Candidates must have a Ph.D. degree at the time of appointment and a strong research and publi-

cation record. Postdoctoral experience is strongly preferred. The positions, based at the Marine Science Institute (www.utmsi.utexas.edu) in Port Aransas, TX, include 9 months of annual salary support. Faculty are expected to maintain a vigorous, externally funded research program, teach graduate and undergraduate courses, and mentor M.S. and Ph.D. students.

Applicants should send an application as a PDF file to facsearch@utmsi.utexas.edu and have at least three letters of recommendation mailed to: Search Committee Chair, The University of Texas Marine Science Institute, 750 Channel View Dr., Port Aransas, Texas 78373-5015. The application should identify the position of interest and contain a curriculum vitae and a statement of research interests that indicates how the applicant's research activities would take advantage of the institute's facilities and location (3 pages maximum). Review of applications will start October 1, 2007, and will continue until the position is filled. State law requires a background check on the selected applicant.

The University of Texas at Austin values diversity and is committed to affirmative action and equal opportunity. Women and minorities are encouraged to apply. UT Austin will make every effort to accommodate professional couples.

danbolnick@mail.utexas.edu

danbolnick@mail.utexas.edu

VanderbiltU EvolEcol

TENURE TRACK FACULTY POSITION EVOLUTIONARY ECOLOGY

The Department of Biological Sciences at Vanderbilt University seeks candidates to fill an assistant professor, tenure-track faculty position in Evolutionary Ecology. We are especially interested in candidates with research programs that complement existing strengths in the department (<http://sitemason.vanderbilt.edu/-biosci>). Postdoctoral or faculty experience is preferred. Central criteria for this position are excellence in research and the ability to teach undergraduate and graduate students with a high level of effectiveness. Applicants should send a letter of application together with a curriculum vitae, a statement of current and future research interests, selected reprints, and contact information for at least three references to: Evolutionary Ecology Search Committee, Department of Biological

Sciences, Vanderbilt University, VU Station B 351634, Nashville, TN 37235-1634 U.S.A. Review of applicants will begin November 1, 2007, and will continue until the position has been filled. Vanderbilt University is an Affirmative Action / Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

Daniel J. Funk Chair, Evolutionary Ecology Search phone: 615-322-2214 e-mail: daniel.j.funk@vanderbilt.edu

WashingtonU StatisticalGenetics

The Division of Statistical Genomics and the Department of Genetics at Washington University School of Medicine invite applications for an investigator (tenure)-track position in statistical genetics / genetic epidemiology. Strong background in quantitative sciences is essential, with specific expertise in statistical genetics, genetic epidemiology, or population genetics. Experience in genomics and post-doctoral training will be advantageous. We seek individuals with a focus on theoretical and applied statistical modeling to interact with clinical and translational scientists engaged in human biomedical research from other disciplines such as oncology, cardiology, pharmacology, and microbiology. The successful candidate must be an innovative thinker capable of developing an independent research program, will participate in teaching and mentoring of graduate students, and should possess a collaborative and collegial spirit. An excellent start-up package is available, along with generous benefits.

We strongly encourage women and underrepresented minorities to apply. Washington University is an equal opportunity/affirmative action employer. Applications received before January 1, 2008 will receive full consideration. To apply, please send your CV, a statement of research interests, and three references, preferably in electronic format to:

Ingrid Borecki, Ph.D Director, Division of Statistical Genomics 4444 Forest Park Blvd. - Box 8506 St. Louis, MO 63108 dsg-faculty@dsgmail.wustl.edu

joyce@dsgmail.wustl.edu

WeberStateU PopulationGeneticist

TENURE TRACK FACULTY POSITION POPULATION GENETICIST

Brief Description Tenure-track position for a broadly trained geneticist, beginning Fall 2008. Teaching duties include introductory courses, genetics, evolution, and upper-level courses in specialty area. Ph.D. required. Research with undergraduates expected. To be considered for this position, all applicants must complete a WSU application online at <http://jobs.weber.edu>. Send curriculum vitae, statements of teaching and research interests, up to three reprints, and have three reference letters, at least one of which addresses teaching, sent to: Dr. Sam Zeveloff, Chair; Department of Zoology; c/o Human Resources; Weber State University; 1016 University Circle; Ogden, UT 84408-1016. Application review begins December 1, 2007. See website: <http://weber.edu/zoology> for information. Weber State University is an Affirmative Action/Equal Opportunity Employer.

Research Infrastructure The facilities and infrastructure to support research at WSU are impressive for an undergraduate institution. The College of Science has a strong tradition of research involving undergraduates and the Department of Zoology is a campus leader in research activities. The anchor of the research facilities within the department is the DNA Laboratory, [http://departments.weber.edu/zoology/DNA_LAB.htm], which has all of the equipment and space needed to conduct modern genetic research.

Field Research Opportunities The Weber State campus is convenient to a remarkable variety of ecological habitats. Aquatic ecosystems include mountain streams, rivers and lakes, wetlands, and the Great Salt Lake. Terrestrial environments include the Great Basin desert, Colorado plateau, and the Wasatch mountains, the upper elevations of which are topped by alpine habitats. The accompanying biota, both resident and migratory, provide ample opportunity to explore unique ecological issues as part of ongoing or newly-designed research.

Quality of Life Weber State University [<http://www.weber.edu>] is a prominent influence and dynamic force in northern Utah. The university recently completed the Browning Center for Performing

Arts [<http://weber.edu/performingarts/default.html/>] and the Kimball Visual Arts Center [<http://departments.weber.edu/dova/>], each of which hosts national and international arts events. Major campus recreational facilities include the Dee Events Center [<http://community.weber.edu/deeeventscenter>], a 12,000-seat arena used for WSU basketball and for concerts, and the Ice Sheet, home of WSU hockey and the 2002 Olympic Winter games curling venue.

Ogden [<http://www.ogden-city.com>] lies at the northern edge of the Salt Lake City-Ogden metropolitan region and serves as a cultural and intellectual center for the region. Located 35 miles from the Salt Lake International Airport, the Ogden area boasts 12 golf courses, three ski resorts [<http://skiutah.co>], and Historic 25th Street, a commercial, cultural and dining destination in the heart of downtown. Peerys Egyptian Theater [<http://www.peerysegyptiantheater.com>] is host to year-round cultural activities and is one of the venues for the Sundance Film Festival, [<http://www.sundance.org/festival/>] held each January. Ogden lies on the western slope of the Wasatch range and is convenient to a wealth of year-round outdoor recreational activities [<http://travel.utah.gov/>]. The quality of life in northern Utah [<http://www.utah.com>] is truly exceptional.

Jonathan Clark, Ph.D. Department of Zoology Weber State University Ogden UT 84408-2505

Phone: 801-626-6171 FAX: 801-626-7445 <http://departments.weber.edu/zoology/> Jonathan CLARK <jclark1@weber.edu>

WrightStateU MolEvolution

Molecular Ecology/Ecological Genomics.

The Department of Biological Sciences of Wright State University invites applications for a tenure-track faculty position at the level of ASSISTANT OR ASSOCIATE PROFESSOR. Successful candidates must have a doctorate by time of appointment and sufficient research experience to develop a vigorous externally funded research program that uses molecular tools to address questions in ecology or environmental sciences. Opportunities exist for collaboration with faculty in the areas of aquatic, terrestrial and evolutionary ecology and other scientific disciplines.

A competitive start-up package will be tailored to the

specific needs of the successful candidate. Teaching responsibilities may include courses at the undergraduate and/or graduate level. Graduate programs include the College of Science and Mathematics' (CoSM) inter-departmental Environmental Sciences Ph.D. program, the Biomedical Sciences Ph.D. program, which integrates across CoSM and the Boonshoft School of Medicine, the Biological Sciences M.S. program, and the Microbiology and Immunology M.S. program. Resources in support of research include genomics and proteomics facilities, animal care and aquarium facilities, greenhouse, on-campus wooded Biology Preserve and regional natural areas, and numerous area research institutions, including Wright Patterson Air Force Base.

WSU has nearly 17,000 undergraduate and graduate students, and the department graduates approximately 150 students per year. More information on the university, the Department of Biological Sciences and its Graduate Programs, and the open faculty positions can be found at <http://www.wright.edu/biology/department/jobopps.html>. To be considered for associate professor, candidates must have a record of excellence in scholarship and teaching as defined in the Department of Biological Sciences bylaws (<http://www.wright.edu/facstaff/bylaws/biologicalsciences.html>).

Interested applicants should send a curriculum vitae, statements of research and teaching interests, and names and contact information for three references to Chair of the Molecular Ecology Search Committee, Department of Biological Sciences, Wright State University, Dayton, OH 45435-0001. Electronic applications can be sent to biology@wright.edu. Review of applicants for all positions will begin November 30, 2007, and continue until all positions are filled.

Wright State University is an EEOE.

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

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

Yunnan TropicalTreeEvolution

FACULTY POSITION in Ecological Evolution of Tropical Trees at the Associate Professor level in the Chi-

nese Academy of Sciences, based in the Xishuangbanna Tropical Botanical Gardens, Yunnan, China.

The Ecological Evolution group at the Xishuangbanna Tropical Botanical Garden (XTBG), Yunnan invites applications for a full-time faculty position in ecological and evolutionary studies, focused on the rainforest trees of Southeast Asia. The Ecological Evolution group was recently established at XTBG and is assembling an international team of researchers and postgraduate students. This position is one of the three new faculty positions at XTBG within this research group. The gardens are undergoing a major expansion of research facilities and capacity. XTBG is part of the Chinese Academy of Sciences (CAS), through which these appointments are being made. Please visit the garden's website at <<http://en.xtbg.ac.cn/>> . Highly qualified candidates pursuing research in any of the following or related areas are encouraged to apply: genome-scale analysis of population variation; bioinformatic approaches for analyzing genomic data and marker discovery; biogeographic and ecological studies of plant trait evolution; advanced conservation and management techniques for

tropical forests. The candidate's responsibilities, along with their independent research, would include: the development of postgraduate training and research; the development of international collaboration with universities and institutions in Southeast Asia; obtaining external funding; and publication in top international journals. The successful candidate will benefit from CAS's established research programs and field stations. XTBG has strong cooperative relationship with the local and provincial governments and surrounding countries in developing important and compelling collaborations. The faculty at XTBG is internationally recognized and currently expanding <<http://en.xtbg.ac.cn/c10.aspx>> . Candidates with a strong record of accomplishment should submit a CV, statement of research interests/plans, and pdfs of two publications. Please include three potential references who could provide letters of recommendation. Send these material to Dr. Chuck Cannon <chuck@xtbg.ac.cn> and She Yuping <yuping@xtbg.ac.cn>.

Chuck Cannon <chuck@xtbg.ac.cn>

Other

AFLP Micro scoring software	65	Old electrophoresis equipment	70
ATL lysis buffer	65	Perl to unroot trees	71
Band Purification	65	Sitophilus granarius data	71
Batch runs of STRUCTURE	65	SNP analysis	71
Benthic phylogenies	66	SNP haplotypes	71
Canadian Wildlife	66	Software EvolveAGene 3	72
Collecting insects	66	Software Lamarc 2 1 2	72
Creationism European Education	66	Software MaxAlign	73
Creationist Earmark Withdrawn	66	Software Parafit	73
Creationist video clips	67	Software phylogenetic canonical correlation	73
Creation museum	67	Software Tracer v1 4	74
DMSO preservation	67	subSTRUCTURE question	74
DMSO preservation answers	67	subSTRUCTURE question answers	75
DNA from sperm cells	68	Survey AntiEvol ideas	75
DNA from toe pads	69	Survey AntiEvol ideas answers	75
Job trends survey	69	TimeTree Database	76
Job trends survey 2	69	UWashington NervousSystemEvol ResApprenticeship Mar31-Jun7	77
Mismatch distribution question	70	Weevil samples	78
NESCent GroupProposals	70		

WestNile PositiveControl	78
WildGrape DNAextraction answers	78

AFLP Micro scoring software

Our labgroup is looking to upgrade our AFLP/Microsatellite analyzing / scoring software. We are wondering if anyone has used the following programs and how they perform compared to the much pricier GeneMapper by ABI.

-GeneMarker (SoftGenetics, LLC) -STRand (UC Davis, <http://www.vgl.ucdavis.edu/informatics/STRand/index.html>) -Genographer -Any others?

Many Thanks! Krissa Skogen

PhD Candidate University of Connecticut
krissa.skogen@uconn.edu

krissa.skogen@huskymail.uconn.edu

ATL lysis buffer

Dear Evoldir list members,

Does anyone have a recipe for ATL lysis buffer for the Blood and Tissue DNA extraction kit Qiagen?

Thanks

Jens -

Dr. Jens Carlsson

Population Geneticist

Duke University Marine Laboratory Nicholas School of the Environment and Earth Sciences 135 Duke Marine Lab Road Beaufort, NC 28516-9721, USA

Office: +1 252 504 7615 Fax: +1 252 504 7615 (wait 7 rings)

Email: jens.carlsson@duke.edu
<<mailto:jens.carlsson@duke.edu>>

/Quis/* */custodiet// ipsos custodes?/**

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

Band Purification

Dear Evoldir I am ging to purify a selective band from denature polyacryamid gel. Would you please send me the protocole. I would appreciate recieving that. Thank you for your advices. Best regards

Mahtab

mahtab [yarmohammadi](mailto:yarmohammadi@yarmohammadi.com)
<mahtab_yarmohammadi@yahoo.com>

Batch runs of STRUCTURE

Dear All,

I'm running STRUCTURE to recover population structure with a microsatellite data set. I've created a project and can start runs by selecting 'Parameter Set' in the toolbar and then selecting 'Run'. I can then run the program for one value of K and only one replicate. This works perfectly.

With this same project, I tried to schedule a series of runs by going to 'Project' and then 'Start a Job'. I selected the parameters set, values of K and the number of run for each and then pressed 'Start'. A 'Structure Job Log' windows appears saying 'Start the Job ...' but stays like that for days, even if the batch should only take a couple of hours maximum. Did anyone encountered that problem before or does anyone know what could cause this problem?

I'm using STRUCTURE 2.2 (March 2007) and tried on three different computers but had the same problem on each.

Thanks in advance for your answers,

Best regards,

Sebastien Puechmaille.

sebastien.puechmaille@ucd.ie

s.puechmaille@gmail.com

Benthic phylogenies

I would like to find recent publications on the Benthic Macrophytes phylogeny, could you please help me in this.

Thank you in advance.

Best regards.

Amal Korrida

Senior in charge & Biologist/Geneticist HRH Prince Sultan Bin Abdul Aziz Al Saud International Foundation for Conservation & Development of Wildlife, Morocco.

amalkorrida1@aol.co.uk

Canadian Wildlife

Please forward this link to interested parties. COSEWIC (Committee on the Status of Endangered Wildlife in Canada) is asking for specialists in several fields to sit on their committee.

http://www.cosewic.gc.ca/eng/sct7/index_e.cfm#CFA

A. Richard Palmer, FRSC Department of Biological Sciences University of Alberta Edmonton, Alberta T6G 2E9 CANADA phone: (780) 492-3633 message: (780) 492-3308 FAX: (780) 492-9234

<http://www.biology.ualberta.ca/palmer/palmer.html>
(biological asymmetries, software, course notes) Past Chair, Comparative Morphology & Development section, Canadian Society of Zoologists. For info. see: <http://www.biology.ualberta.ca/CMD/home.htm>
>>>> TEMPORARY ADDRESS UNTIL AUGUST 1, 2008: <<<<< Director Bamfield Marine Sciences Centre Bamfield, BC V0R 1B0 CANADA phone: (250) 728-3301 Ext. 215 FAX: (250) 728-3452 <http://www.bms.bc.ca> rich.palmer@ualberta.ca

Collecting insects

For one year, I collected insects at 4 different sites, although close among each other, using 4 different methods every two weeks and it was to see if the species collected from the first day are also collected in the next (two weeks later) collecting and the next, and so on. Interestingly, about 70% of the first-time collected insects were collected again in the next collection.

I wonder if you know any good reference on such study? I have seen many papers and reports regarding comparisons of different collecting methods, but I couldn't find good papers on frequency of collecting insect for the purpose of faunistic survey. Please send me papers or let me know the references. Thank you in advance.

Sincerely,

Cho, Soowon Department of Plant Medicine Chungbuk National University Cheongju, 361-763 KOREA soowon@chungbuk.ac.kr 82-(0)43-261-2558 fax 82-(0)43-271-4414

soowon@chungbuk.ac.kr

Creationism European Education

For those of you interested in this debate, find below a link to the recently passed European Council resolution "The dangers of creationism in education":

http://assembly.coe.int/ASP/NewsManager/-EMB_NewsManagerView.asp?ID=3259 Juan J. Robledo-Arnuncio <robledo@isem.univ-montp2.fr>

Creationist Earmark Withdrawn

As a follow up to my previous message about the earmark for anti-evolution education in one of the US federal budget bills, I am happy to announce that the senator who inserted the earmark has withdrawn it and

asked for the funds to be redirected to another project in Louisiana.

I want to thank everyone who wrote their senators about this earmark.

For more details, you can read this blog post:

<http://pandasthumb.org/archives/2007/10/federal-funding.html> –

Reed A. Cartwright, PhD <http://scit.us/> Postdoctoral Researcher <http://www.dererumnatura.us/> Department of Genetics <http://www.pandasthumb.org/> Bioinformatics Research Center North Carolina State University Campus Box 7566 Raleigh, NC 27695-7566

Cuiusvis hominis est errare, nullius nisi insipientis in errore perserverare. –Cicero

racartwr@ncsu.edu racartwr@ncsu.edu

Creationist video clips

I am trying to get hold of two brief creationist clips for teaching purposes. They are the infamous “banana” and “peanut butter” videos, which can be seen at YouTube and other sites:

Banana <http://www.youtube.com/watch?v=9zwbhAXe5yk> Peanut butter http://axiomsun.com/home/video/peanut_butter_the_atheists_nightmare!.html I'm

unable to get these as stand-alone clips in an mpeg or mov format. Does anybody have these?

Thanks, Jerry Coyne

Jerry Coyne <j-coyne@uchicago.edu>

Creation museum

dear and reputable members of the evoldir,
please consider enjoying critically this important contribution to the creationism controversy.

<http://www.youtube.com/watch?v=xR8MGAsidFI>
warmest regards

marcos

mantezan@bsd.uchicago.edu

DMSO preservation

Dear Evoldir,

In our lab we have many lizards tips of tails preserved in 20% DMSO (6M NaCl + DMSO), some for more than ten years, and we are having problems extracting DNA from the oldest ones. My question is about the best way to preserve the more recent ones: should we change DMSO solution frequently, should we add more salt? How much volume of DMSO solution should we use relative to the volume of the tissue? Another question is if we can change the biological material that is currently in DMSO into ethanol.

Best regards and thanks in advance.

Sofia

sgseabra@fc.ul.pt

Sofia Seabra <sgseabra@fc.ul.pt>

DMSO preservation answers

Dear all, Thank you very much to everyone that replied to my questions about tissue preservation in DMSO. Replying to Si: we have been able to extract high molecular weight DNA from samples preserved in 20% DMSO for 8 years but some other samples gave very bad extractions and they were 6 years old. It is possible that the ratio of tissue to solution is an important factor in our case. Below are all the answers I got. Thanks again to everyone. Sofia

I personally am not a fan of storing tissue in 20% DMSO as I've also had problems with extractions. Perhaps short-term storage is ok, particularly as there may be issues with samples in ethanol in the post. If I receive samples in DMSO, I rinse them with dH2O and change them into 70% or 80% ethanol. I have had no trouble with long-term storage in ethanol, even when stored at room temperature. Regards Maria

In our lab, we have always stored tail tips in 100% EtOH, cutting the tissue into smaller pieces, ratio of tissue to EtOH, c. 10x Such material has been fine for

10 years plus. I have always assumed that the EtOH removes the DNA from aqueous solution, hence stopping aqueous enzymatic processes.

Re: your issue, you may want to transfer the tissues into EtOH. I'm no expert on the 20% DMSO, salt issue, but the DMSO is just there to deliver the very high salt concentration into the cells of the tissue to prevent DNAases etc.. working to degrade the DNA.

Just out of interest, how long have your workable samples (eg obtaining high molecular weight DNA out of them) been in the 20% DMSO solution - I've only just started working with it and would like to predict life spans of my samples.

With best wishes and thanks

Si Creer – Si Creer Post Doctoral Research Fellow
Molecular Ecology and Fisheries Genetics Group School
of Biological Sciences University Wales, Bangor Bangor
Gwynedd LL57 2UW UK

e-mail: s.creer@bangor.ac.uk
<<mailto:s.creer@bangor.ac.uk>> Tel: +1248
382302 Fax: +1248 371644 Home Page: [http://
biology.bangor.ac.uk/~bssa0d/](http://biology.bangor.ac.uk/~bssa0d/) <[http://
biology.bangor.ac.uk/%7Ebssa0d/](http://biology.bangor.ac.uk/%7Ebssa0d/)>

If it helps, Dawson /et al/. (1998) examined the effects of five storage solutions and three temperature regimes on marine invertebrate tissue and found that the greater the duration of storage prior to analysis, the greater the degradation of the sample, and greater degradation occurs at higher storage temperature (room temperature). The Preservation of DNA was most successful with dimethylsulfoxide and sodium chloride (DMSO-NaCl) and 70% ethanol.

Dawson, M.N., Raskoff, K.A., and Jacobs, D.K. (1998) /Field preservation of marine invertebrate tissue for DNA analyses/. Molecular Marine Biology and Biotechnology. *7(2)*:145-152

Best wishes Tom

We have collected cetacean and turtle tissue in salt-saturated 20% DMSO for up to 15 years. We also find that some of our older samples have degraded and we get no or little DNA out of them. We still collect some samples in DMSO, but we freeze them all now rather than storing them at room temperature. We try to keep the ratio of DMSO to sample greater than 5:1. Whenever possible we collect samples in 90% ethanol now (also stored frozen), or store samples just frozen, and changed after initial collection because it can become diluted by the water in the sample. Changing the DMSO is also a good idea, as it can become acidified. I don't know how to

'rescue' your older samples, but would recommend that you do extractions on all of them as soon as possible to obtain DNA before it becomes further degraded. Phil – Phillip A. Morin, Ph.D. Southwest Fisheries Science Center 8604 La Jolla Shores Drive La Jolla, CA 92037, USA Phone: 858-546-7165 Fax: 858-546-7003 phillip.morin@noaa.gov <<mailto:phillip.morin@noaa.gov>> <http://swfsc.noaa.gov/prd-popid.aspx>

We at STRI use 0.25 M EDTA instead of pure water to mix up the 20% + NaCl. We add NaCl to saturation and then some more.

Some people keep their samples in 4C but I keep mine in -20C or -80C if I am not using them anytime soon.

I have transferred from EtOH to DMSO but never the other way around. Should be OK, if you want to do it... Let me know if you receive any other "hot tips" from EvolDir, eh?

Obrigado! -Andrew

Andrew J. Crawford, PhD

Naos Molecular Labs Smithsonian Tropical Research
Institute Republic of Panama

Email: andrew@dna.ac <<mailto:andrew@dna.ac>> web: <http://dna.ac>

I am starting to use DMSO solution to preserve tissues for DNA work myself. I can therefore only recommend to use the recipe of the attached paper which seem to work nicely (NaCl saturated solution) for nematodes. I am now starting to use it for arthropods. I had no success by

— / —

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

DNA from sperm cells

Dear EvolDir community- Does anybody know a good protocol to purify nuclear DNA from sperm cells?

I am digesting the sperm tails and recovering sperm heads from the pellets. Then, I wash the head pellet several times and spin it at 280000g in a sucrose cushion of up to 80% to improve the purity of heads. I do this 3-4 times. However, after extracting DNA from the

purified heads, I am still getting PCR amplification of large quantities of mtDNA. I might be using a wrong protocol or committing a mistake, I do not know. I would really appreciate any comments or alternative protocols. Thanks in advance,

Ivan D. Soto-Calderon. MSc. Doctoral student. University of New Orleans. New Orleans, LA. USA. e-mail: idsotoca@uno.edu

idsotoca@uno.edu

considering graduate school. I also believe graduate students will be able to use the results as a benchmark for what they need to do (i.e. publications, etc.) during graduate school in order to eventually compete for a tenure-track position. All responses are anonymous.

Thanks in advance for your time.

Sincerely,

Robert Shupe Undergraduate student, Southern Utah University

jonathon_c_marshall@hotmail.com

DNA from toe pads

Dear EvolDir-listers,

I was wondering if anyone had tips on how to slice up tiny toe pads for DNA isolation? I was wondering if anyone has tried soaking before slicing- I am having difficulty with static

Thank you very much. Katrine

brown.katrine@gmail.com

Job trends survey

My name is Robert Shupe and I am an undergraduate student considering going to graduate school and getting a PhD in Ecology or Evolution. Upon investigating the various opportunities available I found more questions than answers. After discussing the issue with some members of the faculty at my institution, I was troubled to learn that there is little concrete information regarding job-prospects upon finishing graduate school. Therefore, with the help of Dr. Jonathan C. Marshall, Southern Utah University, I have put together a simple survey to help provide more transparency regarding the job-outlook for those who may have similar interests and concerns as I do.

If you have landed your first tenure-track, international equivalent, or other permanent position within the last 4 years I would be very grateful if you would take a few minutes to respond to this survey.

<http://FreeOnlineSurveys.com/rendersurvey.asp?sid=-02qabm52zm9s4rg353289> I believe a summary of the survey results will be quite valuable to individuals

Job trends survey 2

We have had a tremendous response to our survey in very short period of time. We would first like to thank everybody that has participated so far and encourage those of you who have not to do so. We would like to clarify one aspect of the survey. In the instructions we stated $\frac{1}{2}$ Please answer questions as appropriate at the time of your hire $\frac{1}{2}$ but this was not written in bold text and was very easy to miss. This has led to some confusion on questions asking about your number of publications. Please indicate the number of publications you had at your time of hiring. Also to help decrease the time it takes to do the survey I have included a quick link to a list of impact factors below.

Based on the many enthusiastic emails I have received it appears there is a real need for the dissemination of these kinds of data. In fact, many excellent suggestions have been made to expand the questions to include starting salaries, extending hiring time periods, inclusion of government and non-profit jobs, etc. These are all things we will be considering for a second survey. Thanks again to all those who have and will be participating.

Link to web site of impact factors- <http://www.bio21.bas.bg/ibf/IF99.txt> Survey link: <http://FreeOnlineSurveys.com/rendersurvey.asp?sid=-02qabm52zm9s4rg353289> Jonathon C. Marshall, PhD. 351 W. University Blvd. Dept. of Biology Southern Utah University Cedar City, UT 84720

Phone (435) 586-7927 Fax: (435) 586-8605

Home page: http://www.geocities.com/jcmarshall_species/Research.html Science Blog: http://geocities.com/jcmarshall_species/blog.html

jonathon_c_marshall@hotmail.com

Mismatch distribution question

Dear Evoldir users,

I am using Arlequin (v.3.1) in order to perform a mismatch distribution analysis on mtDNA (Dloop) sequences. My dataset includes two divergent clades (6.5%). I used it in order to perform mismatch distribution under both models (demographic=> SSD =0.008, p=0.24, r=0.004, p=0.45 and range expansion=>SSD =0.008, p=0.46, r=0.004, p=0.91, M.206, neutrality tests=>D=-0.56, p=0.337 and Fs=-23.98, p=0.001). My mismatch distribution is multimodal (peak at zero, 11 and 21 differences). Is this the result of simultaneous study of the two diverged groups (the within and between group comparisons)? Although I have a multimodal distribution both models are not rejected. Can I infer from D and F values that what I see is probably a spatial rather than a demographic expansion (since for low Nm values D is not too powerful while Fs is more efficient)? Do I really get any information through the mismatch distribution of both groups (clades)? In other words is it better to start from the bottom level of structural hierarchy (depicted by mtDNA and/or msats) and move upwards? High frequency of 0 and 1 mismatches is an indication of spatial expansion? In order to estimate $2u$ can I use the formula $2u = \text{divergence} / \text{MYA} * \text{base pairs}$? Is it proper to use the time estimates of expansions on islands in order to calibrate the molecular clock (assuming that rate homogeneity is valid)?

Apologies for the long email Thank you in advance for your time and your help

Antoniou Cilia PhD student University of Crete Department of Biology HCMR Department of Marine Biology and Genetics Email: bio574@edu.biology.uoc.gr, antoniou@her.hcmr.gr

Antoniou Aglaia <bio574@edu.biology.uoc.gr>

NESCent GroupProposals

Call for Proposals : NESCent Postdoctoral Fellows,

Sabbatical Scholars, Working Groups and Catalysis Groups

The National Evolutionary Synthesis Center (NES-Cent) is now accepting proposals for postdoctoral fellows, sabbatical scholars, working groups and catalysis meetings. Proposals for postdoctoral fellowships are accepted at the December 1 deadline only. Proposals for sabbatical scholars, working groups and catalysis meetings are accepted twice a year, with June 15 and December 1 deadlines. Proposals for short-term visitors are considered four times a year, with deadlines on January 1, April 1, July 1 and September 1. For more information, please see our website at <https://www.nescent.org/science/proposals.php> . – Karen Henry Assistant Director of Research Administration National Evolutionary Synthesis Center 2024 W. Main Street, Suite A200 Durham, NC 27705

email: khenry@nescent.org telephone: 919-668-4574 fax: 919-681-8444 <http://www.nescent.org/khenry@nescent.org>

Old electrophoresis equipment

Dear all,

I am looking to buy second hand equipment for cellulose acetate allozyme electrophoresis. Many labs have used allozymes in the past, but have now switched to different methods. However, I am still using them to analyze competition assays between different strains of *Daphnia*. Thus, if anyone has old but still functional equipment laying around, I would be interested in buying it.

Specifically, I am using 76 x 76 mm gels from Helena laboratories, and I am looking for gel tanks, power supplies, and applicator kits (including well plates and applicators) that are compatible with these gels.

Many thanks in advance for any offers,

Christoph Haag

–

Christoph Haag

University of Fribourg Department of Biology Unit of Ecology & Evolution Chemin du Musée 10 CH-1700 Fribourg Switzerland

Phone: +41 (0)26 300 88 71 Fax: +41 (0)26 300 96 98

E-mail: christoph.haag@unifr.ch [http://-](http://www.unifr.ch)

/www.unifr.ch/biol/ecology/haag/group/
 christoph_haag/christoph_haag.html
 christoph.haag@unifr.ch christoph.haag@unifr.ch

Perl to unroot trees

Does anyone have a perl subroutine that takes a rooted tree in Newick format and returns the unrooted tree?

Thanks for any help.

Barry G. Hall barryhall@zeninternet.com

Sitophilus granarius data

Dear All,

I am interested in examining genetic level variations in intra-species populations of granary weevils, *Sitophilus granarius*, from different parts of the world. If anyone has access to specimens and would like to assist me, email me at gak500@york.ac.uk and I'll supply you with a mailing address and packaging instructions.

Thank you, Gary King

SNP analysis

Running and analyzing fragments in Applied Biosystems 3130

We have some problems with SNPs genotyping using the SNaPshot platform from Applied (I think the problem would be the same with microsatellites).

My department purchased a 3130AB sequencer (4 capillaries) that is mostly used for sequencing. The sequences are processed by the data collection software and then we analyze them using Phred-Phrap-Cnsed (we did not purchase the Applied Seqscape software, for sequencing analyses).

I decided to use the sequencer for SNPs genotyping (and there are people interested in running microsatellites),

but we do not have the Applied's GeneMapper software for fragment analysis. I purchased the Matrix Standard set (DS-02) and performed the spectral calibration to be able to run fragments. The problem now is that when I want to perform a run, I don't have the option to run fragments in the sequencer. I only have the options to run sequences and to perform a spectral calibration. I called the Applied people here in Brazil, and they told me that this is because I didn't purchase the GeneMapper (that cost around US\$ 10000).

I understand that one aspect is the data collection software to control the run and collect the data, another one is the software for data analysis, which is what GeneMapper does, and I suspect the first should be (more or less?) independent from the second. In other words, Applied people should allow me to run fragments, and then let me decide how to analyze them, as in the case of sequencing.

Actually, I suspect Applied people are trying to "persuade" me to purchase their software GeneMapper, which is something I am considering, but I would like to know if I have the option of not doing that.

I don't know if anyone may send me any feedback. Specifically, I would like to know if someone had have a similar problem, and if someone have the experience of running fragments in a 3130 Applied even without having the GeneMapper software. In this case, do you know if Applied installed the modules for running fragment.

Thanks Eduardo edutars@icb.ufmg.br

– Eduardo Tarazona-Santos Professor Adjunto Instituto de Ciencias Biologicas Universidade Federal de Minas Gerais Telephone: ++55 31 34992572 e-mail: edutars@icb.ufmg.br

Eduardo Tarazona-Santos <edutars@icb.ufmg.br>

SNP haplotypes

Hi there

We are looking to test the performance of different programs/algorithms for the inference of haplotypes from diploid SNP data (from genotyping and/or direct sequencing). We will use empirical data sets from conifers, for which we have SNP genotypes from the diploids, as well as sequences from their gametes.

Recommendations, anyone? I'd appreciate it if you

could circulate this request to any of your colleagues who have developed methods or have other experience with this problem.

I'll post all responses.

Thanks,

-stacey

– Dr. Stacey Lee Thompson NSERC Visiting Fellow / Chercheure post-doctorale Natural Resources Canada / Ressources naturelles Canada Canadian Forest Service / Service canadien des forêts Laurentian Forestry Centre / Centre de foresterie des Laurentides 1055, rue du P.E.P.S., c.p. 10380 Succ Sainte-Foy Québec QC G1V 4C7 Canada Tél.: (418) 648-7047 Fax / Télécopieur : (418) 648-5849 Email / Courriel : stacey.thompson@nrca-nrcan.gc.ca

Stacey.Thompson@RNCa.gc.ca

Stacey.Thompson@RNCa.gc.ca

Software EvolveAGene 3

EvolveAGene 3 is a realistic coding sequence simulation program that separates mutation from selection and allows the user to set selection conditions, including variable regions of selection intensity, positive or purifying, within the sequence and variation in intensity of selection over branches. Variation includes base substitutions, insertions and deletions. Output includes a log file, the true tree and both unaligned coding sequence and protein sequences and the true DNA and protein alignments.

As far as I know EvolveAGene is the only simulation program designed specifically for coding sequences.

Availability: The package includes Mac OS X and Windows executables, Perl source code and a detailed manual can be downloaded from <http://homepage.mac.com/barryghall/Software.html>.

A detailed description of the program and its capabilities is available at Nature Precedings <http://precedings.nature.com/documents/1230/version/1>

Barry G. Hall

barryhall@zeninternet.com

Software Lamarc 2.1.2

We have just released LAMARC 2.1.2. The LAMARC program estimates population parameters such as effective population size, migration rates, growth rates, and recombination rate from population samples of molecular data. It can also map genetic traits via linkage disequilibrium.

To the best of our knowledge, previous successful runs with version 2.1.1 are correct and do not need to be repeated. However, we have made several improvements to the program's capabilities, and some data sets which could not previously be analyzed will now work. The most significant changes are:

(1) Cases with high recombination rates now run much faster; as a result higher recombination and/or longer sequences are now feasible. This is particularly useful in linkage disequilibrium mapping. Previously for human-like data LAMARC could only feasibly map within an area of 0.01 centimorgans; it can now easily do 0.2 centimorgans and, laboriously, up to 0.5 on a desktop computer.

(2) Cases in which the mutation rates of different genomic regions are drawn from a gamma distribution can be more reliably maximized. If maximization failed in such a case, re-running with 2.1.2 may solve the problem. Data sets which did not fail do not need to be re-run.

(3) Compatibility with TRACER (Rambaut and Drummond 2004) has been improved. Cases with migration now produce usable tracefiles, and the probability of the sequence data on the genealogy is now recorded in both Bayesian and likelihood runs.

(4) The "unknown data" symbol "?" is now recognized for microsatellite data.

LAMARC 2.1.2 is available for free download (source code and executables for Linux, Mac and Windows) from:

<http://evolution.gs.washington.edu/lamarc/> If you have any questions or problem reports, please let us know.

LAMARC team: Mary Kuhner Eric Rynes
Lucian Smith Elizabeth Walkup Jon Yamato
lamarc@gs.washington.edu

Software MaxAlign

Dear colleagues at evoldir:

As most of us, we suffered from our alignments containing many annoying gaps!! We decided to do something against it and our solution was now baptized “MaxAlign”.

MaxAlign removes sequences from alignments in order to improve the quality of the alignment. You can use it after an alignment, or use it after the alignment is complete, and then realign the sequences. MaxAlign is extremely helpful when your analysis excludes columns with gaps or to find truncated or non-homologous sequences.

You can use MaxAlign online or download it to use locally. The URL is:

<http://www.cbs.dtu.dk/services/MaxAlign/> The article can be read here:

<http://www.biomedcentral.com/1471-2105/8/312>

Best regards, and we hope this software will be helpful,

On behalf of the MaxAlign Team:

Rodrigo Gouveia-Oliveira

rodrigo@cbs.dtu.dk

Software ParaFit

Dear Community,

This is to announce the availability of a highly optimized and parallelized version of Pierre Legendre’s ParaFit program, which implements a statistical test for host-parasite co-evolution (Pierre Legendre, Yves Desdevises, Eric Bazin: “A Statistical Test for Host-Parasite Coevolution”, *Systematic Biology* 51(2):217-234, 2002.).

The sequential version runs up to 67 times faster than the original ParaFit program while the speedup increases with dataset size. The parallel version scales well up to 128 CPUs on datasets of moderate size. With the parallel version of AxParaFit we were able to conduct the largest ParaFit-based analysis to date.

The inference took only 8 minutes as opposed to an estimated runtime of about 4 weeks with ParaFit (estimated because the machine on which ParaFit was running crashed).

The software, including a manual, is available as open source code or pre-compiled binaries at <http://icwww.epfl.ch/~stamatak/AxParaFit.html>.

Best regards,

Alexis

– Dr. Alexandros Stamatakis

Postdoctoral Researcher High Performance Computing Bioinformatics

Swiss Federal Institute of Technology School of Computer & Communication Sciences Laboratory for Computational Biology and Bioinformatics (LCBB) STATION 14 CH-1015 Lausanne, Switzerland

Tel: +41 21 69 31392 (Office) +41 22 54 80003 (SkypeIn) +41 796115849 (Mobile) Skype: stamatak Email: Alexandros.Stamatakis@epfl.ch WWW: icwww.epfl.ch/~stamatak

Alexandros.Stamatakis@epfl.ch

Alexan-

dros.Stamatakis@epfl.ch

Software phylogenetic canonical correlation

pcca is a simple new program for Phylogenetic Canonical Correlation Analysis and is available from my website at:

<http://anolis.oeb.harvard.edu/~liam/programs/> pcca uses a phylogenetic tree and measurements for an arbitrary number of continuous characters to perform a PGLS transformation of the data and then calculate canonical scores, weights, and correlations, and conduct hypothesis tests about the canonical correlations. Canonical correlation analysis (CCA) is a procedure by which two sets of derived variables are calculated from two sets of original variables whereby the correlations between corresponding derived variables is maximized.

The program can also compute the maximum likelihood estimate (MLE) of a multivariate Pagel’s (1999) lambda, and perform the PGLS transformation using the MLE of lambda (following Freckleton et al. 2002), or lambda set to 0.0 or 1.0. lambda set to 0.0 is, of course, identical to performing CCA ignoring phylogeny. If the

MLE of lambda is used, likelihood ratios and significances of the null hypothesis that lambda = 0.0 or 1.0 are also returned. Maximum likelihood estimation is very slow in the current version and is restricted to the interval $0 \leq \lambda \leq 1.0$.

pcca can easily process multiple trees and datasets in sequence.

pcca is supported by a detailed manual and is available as a Linux binary, a Mac OS X binary, and a DOS/Windows executable.

This is a Beta version of the program. Please let me know if you find any difficulties or errors with the program.

Liam Revell Department of Organismic and Evolutionary Biology Harvard University web: <http://anolis.oeb.harvard.edu/~liam/> email: lrevell@fas.harvard.edu

Overlay demographics reconstructions including Sky-line plots

Translucent points for joint-marginal densities

Faster and more accurate ESS analysis

One difference from version 1.3 is that it requires Java 1.5 or better to run. This will probably only affect older versions of Mac OS X: Java 1.5 comes as default on Tiger (Mac OS X 10.4) but requires installing on Mac OS X 10.3 (visit the Apple website for these updates).

Andrew Rambaut & Alexei Drummond

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

a.rambaut@ed.ac.uk a.rambaut@ed.ac.uk

Software Tracer v1 4

Tracer v1.4 has been released and posted on my website:

< <http://tree.bio.ed.ac.uk/software/tracer> >

Tracer is a program for analysing the trace files generated by Bayesian MCMC runs (that is, the continuous parameter values sampled from the chain). It can be used to analyse runs of BEAST, MrBayes, LAMARC and possibly other MCMC programs.

The official webpage is on the BEAST website:

< <http://beast.bio.ed.ac.uk/Tracer> >

However, this is very limited at present. I hope to add more detailed documentation when I have time (the website is a Wiki so please feel free to add you own tips for using Tracer).

This version is almost a complete rewrite and has many new features (and probably a few new bugs too).

A few of the new features are:

Overlay distributions from different files and statistics

More control over plotting

Export of graphics as PDFs and raw data from most views

Calculation of Bayes Factors to compare runs with different models

subSTRUCTURE question

Hello all.

I'm using software STRUCTURE to determine substructure in one natural, isolated population of trees. In all combinations of ancestry models and allele frequencies (except for no admixture model&independent allele frequencies) I have K=3 with probability 1. Also in this exceptional case, using EVANO method I have K=3. This is little bit confusing because I have sampled all adult trees (420) and population occupies area less than 0.8ha. This means that I have 3 different 'genepools' in such small area. So, I was hoping to hear if somebody else had similar situation with substructure in single population and also if there are some references for this scenario. Thanks in advance. Anyway, software is excellent, it fits perfectly with rest of my data (9 more populations).

Jelena Aleksic BFW Vienna aleksic_jelena@yahoo.com.au

Jelena

aleksic_jelena@yahoo.com.au

subSTRUCTURE question answers

Hello again.

Thanks greatly for replies: David Remington, Martin Lascoux, Alan Meerow, Guy Hoelzer, Carlos, Maciek, Steve Keller, Anna-Karin, Miguel Angel Toro Ibi $\frac{1}{2}$ i $\frac{1}{2}$ ez. Here I compile all replies and, as suggested by Alan Meerow and Steve Keller, I give some additional information important for final conclusion.

Picea omorika is tertiary relict and endemic, widely distributed before, now app 40 scattered natural populations, up to several hundred trees each. Pollen and seed dispersed by wind, probably limited (distances not known).

Outcrossing but self-fertile, inbreeding depression in later life stages. I don't have any information if non-random mating is present, vegetative propagation present but not significant (Alan Meerow). It is not morphologically uniform and there is no lack of genetic diversity (surprisingly, but true).

Scores for SSRs as well as for one mt marker highly repeatable, at least 2 alleles/locus sequenced (Maciek suggested technical artefact).

There are for sure at least 2 subpop, because when I run STRUCTURE with K20 (absurd), one group of trees stick together. They are recent immigrants (based on presence of certain alleles), but I can not pinpoint source population because of mt haplotypes (mt DNA transferred by seed). Probably I do not have this population(s) in my sample set. Another fact i $\frac{1}{2}$ mt haplotypes in whole pop are population specific (!). David Remington suggested that if source pop is almost always found in admixed individuals, substructure is probably some sort of artifact even if it seems well-supported statistically.

Doubts that I still have are because of the rest of the population i $\frac{1}{2}$ should I consider the rest of the population as 1 group or 2. As suggested by Martin Lascoux, Guy Hoelzer, Carlos, maybe the rest of the population is family (due to inbreeding), one or 2 sibships with LD between loci and deviations from HWE proportions. Solution i $\frac{1}{2}$ InStruct instead of STRUCTURE and Colony to check that.

On the other hand, if there are 2 more subpop, in each of them LD in only between 1 or 2 pairs of loci and deviations from HWE proportions are almost insignificant (STRUCTURE actually did clustering based on this). There is excess of heterozygotes in each of them! Maybe there is non-random mating after all, but I'm reluctant to assume that. Steve Keller's suggestion is recent admixture event with colonists which were drawn from 3 previously isolated populations (for 3 subpop). Maybe that is the case i $\frac{1}{2}$ several reinforcements, but

only from certain source populations (due to presence of mt haplotypes) and only now and that, due to certain environmental conditions eg storms (spatial pattern of mt haplotypes is in waves!).

Finally, I still have to check few more things, but if you have more suggestions, please sent them again. THANK YOU!!!

Ref from Anna-Karin: Extensive spatial genetic structure revealed by AFLP but not SSR molecular markers in the wind-pollinated tree, *Fagus sylvatica*. A S Jump and J Penuelas, *Mol Ecol* 2007, 16, 925-936.

Ref from Miguel Angel Toro Ibi $\frac{1}{2}$ i $\frac{1}{2}$ ez: *Heredity* 99: 374-380 (2007).

Jelena

BFW Vienna

aleksic_jelena@yahoo.com.au

Jelena

aleksic_jelena@yahoo.com.au

Survey AntiEvol ideas

Greetings!

I'm looking for survey data on the reasons why people reject evolution. My hunch is that most people who reject evolution do so because they don't want to be connected to the animal world - they don't want to be "from monkeys" or the primordial slime. I'd like to see whether any data exist that could be brought to bear on this hypothesis. Thanks.

Norman

Norman Johnson Plant, Soil, and Insect Sciences University of Massachusetts njohnson at umass dot edu

Survey AntiEvol ideas answers

A few days ago, I posted a request for surveys regarding the reasons why people reject evolution. I received numerous responses, too many to include all here. Thank you for the suggestions!

Several people suggested the National Center for Science Education. I've looked at their site (<http://www.ncseweb.org/default.asp>) but didn't see specific information regarding my question.

Tarek Einacash at U. Pittsburgh noted work by the Alters. I will look at their book. Thanks!

>> "Defending Evolution" by Brian and Sandra Alters would be a good place to start. Chapter 3 is titled "Why students reject evolution: Religious reasons" and chapter 4 is titled "Why students reject evolution: non-religious reasons". <<

Barb Edmunds at Portland State sad that Eric Lovely at Arkanas Tech "had a poster entitled "Teaching Evolution: Challenging Religious Preconceptions" at the SICB conference in 2006. He was asking for collaborators in other areas of the country, so I am assuming that this research is on-going."

Joe Graves at NC A&T State responded:

>> Dear Norman, There is some discussion of this question in a book entitled: Cult Archaeology and Creationism: Understanding Pseudoscientific Beliefs About the Past, F.B. Harrold and R.A. Eve, U. Iowa Press, 1995. Although I don't know of any study that explicitly addresses the question you are posing. The title "Monkey Girl" in Ed Humes, Monkey Girl: Evolution, Education, Religion, and the Battle for America's Soul, 2007 comes from the taut directed at the Dover children whose parents opposed intelligent design. So you may be on to something here.

We are planning to do a large survey of student veivs on evolution here at North Carolina A&T State University. As you may know, NCATSU is a historically black institution with over 97% undergraduate enrollment consisting of African Americans. They also tend to have been raised in Biblical literalist, fundamentalist backgrounds. We will include a question that captures your concern in our survey.

Sincerely,

Dr. Joseph L. Graves, Jr. Dean, University Studies & Professor of Biological Sciences 312H Craig Hall North Carolina A&T State University 1601 E. Market St. Greensboro, NC 27411

Email: gravesjl@ncat.edu Phone: (336)-256-2280 <<

Several of the responses I received were similar to David Fitch's

>>Not being a creationist myself, I do not have personal experience. However, many of my students have been creationists (yes, even here in New York City). So my data is anecdotal, not quantitative. But here are

some insights I've inferred:

The overarching fear is that, if evolution is true, then God did not create, and thus God does not exist. A corollary to this miscarriage of logic is that, if God does not exist, we would be plunged into a world without morality or ethics, and basically it would be okay to loot, murder and rape at will. Thus the equation that is made between evolution and evil. The alliteration of these two words also doesn't help.

The connection to the animal world is secondary to this major fear, but it's linked, because animals are not supposed to have a moral code. Even otherwise reputable scientists like Francis Collins ("Language of God") believe there is something divine about the Moral Law (Collins' "evidence" of God). Another connected fear is the lack of purpose to our lives if we are only products of a mindless evolutionary process.

That's why I think it is very important in our teaching to emphasize that scientists canNOT prove or disprove the existence of God (i.e., science is not atheistic, but rather agnostic, in the sense that it cannot disprove supernatural phenomena/mechanisms), as well as to expose the faulty logic that gives rise to this fear. Another thing that is important for us to do as teachers is to show that understanding how life works gives us a greater appreciation and respect for our fellow beings and life in general. (A value system that actually seems to conform more to buddhist than judeo-christian-islamic principles.) The answer to purpose, of course, comes from ourselves—we give purpose and meaning to our own lives.

Best wishes, Dave<<

njohnson@ent.umass.edu njohnson@ent.umass.edu

TimeTree Database

Announcing the TimeTree Database www.timetree.org

TimeTree is a public knowledge-base for information on the timescale of life. It uses a hierarchical system - a conservative guide tree - to identify all published molecular time estimates bearing on the divergence of two taxa (e.g., species). Access to these data is through a search menu by finding the divergence time of two taxa or all estimates published by a single author. Summary statistics, standard errors, links to PubMed abstracts and other features are provided after a search is completed. A growing community of

experts on different taxa (TimeTree Consortium) offers guidance and quality assurance. The database is described in *Bioinformatics* 22:2971-2972 (2006), available here: <http://bioinformatics.oxfordjournals.org/cgi/reprint/22/23/2971> After a period of testing, this release of TimeTree contains data from 2,923 divergence times of tetrapods (mammals, birds, amphibians, and reptiles) from 181 articles through 2006. Expansion to the remainder of life is underway, as is inclusion of tools for user-submission and navigating the timetree of life. We are happy to receive publications not yet included. Please send the PDF file of an article containing divergence times among species (any group of organism) to submissions@timetree.org. To minimize disruption of service, we update the database periodically (every 2-4 months), rather than continuously, so please expect a slight delay in the incorporation of new submissions.

Blair Hedges (Pennsylvania State University) Sudhir Kumar (Arizona State University) Co-directors, Time-Tree Database

sbh1@psu.edu sbh1@psu.edu

UWashington NervousSystemEvol ResApprenticeship Mar31-Jun7

We encourage current undergraduate and graduate students to apply for the research apprenticeship "Parallel Evolution of Nervous Systems: From Genes to Behavior" to be held at the Friday Harbor Laboratories (University of Washington) to be held March 31 - June 7, 2008. A description of the apprenticeship with along with some more background can be found at < <http://depts.washington.edu/fhl/studentApprentice2008.html> > <http://depts.washington.edu/fhl/studentApprentice2008.html>. Please feel free to contact Dr. Andreas Heyland (aheyland@ufl.edu) in case you have further questions.

Parallel Evolution of Nervous Systems: From Genes to Behavior

Spring Quarter, Research Apprenticeship < <http://depts.washington.edu/fhl/studentApprentice2008.html#skipGif> > March 31 - June 7, 2008 - 10 weeks Biology 499 (15 credits) (15 credits)

Dr. Leonid Moroz Whitney Laboratory, University of Florida

Dr. Andreas Heyland Whitney Laboratory, University

of Florida

Nervous systems are some of the most complex machines in our universe. The myriad of signaling mechanisms within nerve cells, the billions of nerve cells and trillions of connection (most of them are unique) are truly wonders of enormous proportions. Yet extant nervous systems are the way they are because they have been molded by millions of years of evolution. Thus, excluding evolution from modern training programs in the neurosciences removes the opportunity to fully understand the modern manifestations of nervous systems by tracking the lineages and constraints that have molded them. Indeed, it is arguable that we can only fully understand the complexity of nervous systems if we examine them, their components, signaling pathways and properties from an evolutionary perspective. This program, the first of its kind in the US, will confront this significant deficiency in graduate/undergraduate neuroscience training and will do so in the framework of an integrated program that encompasses evolution, genomics, proteomics, neuroscience, and bioinformatics. It will provide the students with the technical and intellectual tools with which to capitalize both on the enormous diversity of animal lineages and species available at FHL and on wealth of information that studies of nervous system evolution can provide, thereby positioning them to make major inroads into our understanding of the complexity and functionality of nervous systems. It will also provide students with the experimental advantages of simple nervous systems for technology development.

Modern bioanalytical tools will be used to identify signal molecules (at the single-cell resolution) in variety of marine organisms with key positions in the evolutionary tree of life. Indeed, nervous systems of animals are diverse and their organization and function reflect unique adaptations of an organism to its environment. Chemical messengers used to pattern the developing nervous system are recruited for nervous system function in the adult. While such signal molecules and related molecular markers have been well characterized in model organisms, i.e. *Drosophila* and *C. elegans*, little information exists about the specific signaling molecules patterning the nervous system in many marine invertebrate species. For some lineages such as ctenophores, sponges, placozoa and even many bilaterian phyla such information does not exist at all. Therefore, our training projects will be perfectly overlap with key research questions to fill numerous gaps in our understanding the diversity and evolution of signal molecules and development of integrative systems in animals.

In fact, the emerging fields of single cell genomics and

microanalysis (areas of expertise of the Moroz lab) as well as novel technologies for imaging of complex molecular machinery in living cells call for urgent changes in education with an integration of different disciplines under the unified training program. Thus, interdisciplinary approaches will be the leading philosophy of the course.

Enrollment limited to 8 students.

For additional information contact
<mailto:moroz@whitney.ufl.edu> moroz@whitney.ufl.edu & aheyland@ufl.edu

< <http://depts.washington.edu/fhl/studentApplicationInfo.html> > Application instructions >>

Andreas Heyland Center for Excellence in Genomic Sciences The Whitney Laboratory for Marine Biosciences Saint Augustine, FL 32080
Web1: www.metamorphnet.org Web2: <http://depts.washington.edu/fhl/>

— / —

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>

Weevil samples

Dear fellows,

I want to introduce myself shortly. This year I concentrated my efforts on the collection of short nosed weevils (Entiminae), as I am doing a work on the phylogeny of the mid-european short nosed weevils. I want to do a molecular phylogeny based on 18S and ITS2 sequences. Due to financial restrictions my collection area is mainly focused on Germany. I could collect 23 of the 30 genera that appear in Germany. Definitely I would like to extend this work to the complete spectra of genera of Entiminae, at least of Germany. As I would not hesitate to send duplicates of my own collection to colleagues, I braced up to write this EMail holding the hope that one of you treats it the same way. My request would be: If you can spare a beetle from your own collection, even if it would only be a leg of a beetle, I would be pleased if you replied to this mail. I added a search list of genera as an attachment. Certainly I would even be happy about other information,

if for example you would know someone, who especially devotes himself to short nosed weevils. Hope I can help another time as well.

Greetings from autumn Germany Holger Danner

Send replies to: Holger Danner <danner.h@freenet.de>
– 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://hydrodictyon.eeb.uconn.edu/people/simon/Simon.htm> Reprints: <http://hydrodictyon.eeb.uconn.edu/projects/cicada/resources/reprints.html> chris.simon@uconn.edu
chris.simon@uconn.edu

WestNile PositiveControl

Dear all,

I am looking for PCR positive control for West Nile and Influenza A, B and C to test migratory birds.

Thank you in advance,

Ghislaine

Ghislaine Mayer, Ph.D. Assistant Professor Department of Biology Virginia Commonwealth University 1000 W. Cary St. Office: room 345 Room 126 Richmond, VA 23284-2012 Ph: 804-828-0828 Fax: 804-828-0503

gmayer@vcu.edu

WildGrape DNAextraction answers

Hi, Thanks very much to everyone who replied to my query about methods for extracting clean DNA from *Vitis aestivalis*. I am still working my way through the

suggestions, but all the responses were very helpful. To see all the responses in Word format, go to: <http://biology4.wustl.edu/olsen/KateWaselkov.htm> and click on the link in the second paragraph. Thanks again,

Kate Waselkov Ph.D. Student Washington University in St. Louis

kewaselk@artsci.wustl.edu kewaselk@artsci.wustl.edu

PostDocs

ArizonaStateU EvolutionaryMicrobiology	79	88	
Brest PopGenetics	80		UCaliforniaDavis PopulationBiology
ColoradoStateU MolEvolution	80		UCollegeLondon CodonSubstModels
ColoStateU Phylogenetics	81		UEdinburgh CoalescentTheory
CSIRO Rockhampton Australia SystemsBiology ...	82		UGeorgia CropHybridization
DukeU YeastQuantGenetics	82		UGroningen Speciaton Biodiversity
HarvardMedSchool HumanEvolution	83		UHawaii PhyloComparativeMethods
HarvardU EvolOfMorpholgy	83		UIllinois ParasitoidWaspSystematics
LehighU ButterflyEvolGenomics	83		UMichigan EvolGeneEnvInteractions
Marseille Coalescence Comparative Phylogeography	84		UMinnesota VirulenceEvolution
Montpellier PopGenetics	85		UNebraska PopBiol
NHM Paris Biodiversity	86		UNotreDame MalariaGenomics
OldDominionU Euteleost TreeOfLife	86		UOxford PopulationGenomes
Stockholm InvertebratePhylogeny	87		UOxford StatisticalGenetics
Toulouse AntFungusAssociations	87		UStAndrews DrosophilaEvolGenetics
UBritishColumbia ComparativeGenomics	88		UToulouse IslandBirdEvolution
UBritishColumbia FellowshipPosition IonChannelEvol			

ArizonaStateU EvolutionaryMicrobiology

Multiple Post-Doctoral Associate Positions in Microbiology Arizona State University

Multiple Post-Doctoral Associate Positions in Microbiology at Arizona State University are presently open in the School of Life Sciences at Arizona State University to study 1) Microbial diversity and adaptations in desert soil communities, and 2) Metagenomic prospecting for biohydrogen production, with particular emphasis on natural cyanobacterial systems. Individuals with interests in evolutionary aspects of microbial community diversity and interactions are encouraged to apply.

Candidates must have earned a Ph.D. in Microbiology or a related, appropriate field at the time of appointment. Experience with genomic analyses and molecular biology is required for these positions. Starting date is negotiable. Team candidacies will be given consideration. Competitive salary and benefits packages are offered. Interested candidates should send a cover letter summarizing their qualifications, experiences and interests, position preference, a curriculum vitae, up to three representative reprints, and the names, mailing addresses, and email addresses of three references to: Dr. Ferran Garcia-Pichel, School of Life Sciences, Arizona State University, P.O. Box 874501, Tempe, Arizona 85287-4501. Electronic submissions of candidate's materials are acceptable (ferran@asu.edu). Application deadline is November 15th, 2007; applications will be reviewed biweekly until search is closed. Arizona State University is an Affirmative Action/Equal Opportunity

Employer. –

Martin F. Wojciechowski School of Life Sciences Genomics, Evolution and Bioinformatics Group Arizona State University Tempe, Arizona 85287-4501 USA

office: Life Sciences E 711 480.727.7767 mfwojciechowski[at]asu.edu <http://www.public.asu.edu/~mfwojci/> <http://tolweb.org/Fabaceae/21093> Tree of Life Web project

M F Wojciechowski <mfwojciechowski@asu.edu>

Brest PopGenetics

Post doctoral fellowship: Analysis of population genetics data in the framework of network theory.

The candidate will join a team of ecologists, evolutionary biologists and physicists working on the adaptation of the statistical tools developed in the framework of network theory to the analysis of population genetics data. This work will consist in adapting analysis to datasets altogether with the participants of the Responsive Mode Program GBIRM of the network of excellence MARBEF (<http://www.marbef.org/projects-gbirm>), in close collaboration with the European project EDEN (Ecological Diversity and Evolutionary Networks: <http://ifisc.uib.es/EDEN/>). During the last decades, the principles of networks have been shown to apply to a wide variety of biological phenomena, from ecosystems to food webs, or gene expression. Recently we applied successfully network tools to molecular data to extract information as to the dynamics of organisms and populations (Hernandez-Garcia et al. 2006, Rozenfeld et al. 2007, Rozenfeld et al. submitted). Beyond the ability to take advantage of all the information contained in a dataset describing a complex system (contrarily to summary statistics), networks indeed present the advantage of circumventing some of the hypothesis underlying the interpretation of molecular data in evolutionary ecology, that are seldom respected in nature. It allows analyzing unstable systems and possibly targeting populations of particular importance. The post-doc fellow will use those methods on datasets already available for marine species in order to further explore the prospects of applying network analysis, and to compare them with other classical or complementary methods such as coalescence theory.

Conditions:

The salary will be around 2000 euros net/month for a

duration of 18 months (12+6). The postdoctoral fellow will be mainly located in Brest (IFREMER, Laboratory Deep Environment DEEP-; France), with a period of several weeks in Mallorca (University of the Balearic Islands and the CSIC-UIB research institutes IMEDEA and IFISC; Spain). Computer Science expertise and/or Bioinformatics skills are requested for this position. Candidates with background in Complex Systems or Evolutionary Ecology will be considered. Applications should be sent to Sophie ARNAUD-HAOND (sarnaud@ifremer.fr) and Emilio Hernández-García (emilio@ifisc.uib.es).

Rozenfeld AF, Arnaud-Haond S, Hernández-García E, Eguíluz VM, Matías MA, Serrão EA, Duarte CM (2007) Spectrum of genetic diversity and networks of clonal populations. *Journal of the Royal Society Interface*. DOI: 10.1098/rsif.2007.0230

Hernandez-Garcia E, Rozenfeld AF, Eguiluz VM, Arnaud-Haond S, Duarte CM (2006) Clone size distributions in networks of genetic similarity. *Physica D* 224:166-173

Rozenfeld AF, Arnaud-Haond S, Hernández-García E, Eguíluz VM, Serrão EA, Duarte CM Population genetics networks: identifying weak and strong links in a metapopulation system. submitted

Sophie ARNAUD-HAOND <sarnaud@ualg.pt>

ColoradoStateU MolEvolution

Post-Doctoral Position Colorado State University Department of Biology JOB DESCRIPTION

A post-doctoral position in phylogenetic systematics and molecular evolution is available in the Biology Department at Colorado State University. The successful candidate will use genomic data to study the effects of molecular evolutionary dynamics on the phylogenetic performance of genes at different timescales. Initial emphasis will be on the analysis of published sequences. Candidate must have completed his/her Ph.D. A strong background in phylogenetics or molecular evolution is required. Bioinformatic, genomic, and/or programming experience is preferred. The successful candidate will be expected to interact with incoming graduate and undergraduate students in a growing lab group, as well as with the CSU Center for Bioinformatics.

The Department of Biology at Colorado State University is an interdisciplinary group with a strong (and ex-

panding) crew of evolutionary biologists. CSU is heavily oriented towards life sciences. In addition to the Department of Biology in the College of Natural Sciences, CSU has four other colleges dedicated to life science research: Applied Human Sciences, Agricultural Sciences, Veterinary Medicine & Biomedical Sciences, and the Warner College of Natural Resources. In addition, the Centers for Disease Control and Prevention, the United States Department of Agriculture, and the United States Geological Survey have active laboratories in Fort Collins.

Fort Collins is a beautiful city of 120,000 people located at the base of the Rocky Mountains. We enjoy easy access to world-class outdoor recreation and 300+ days of sunshine each year.

The position is available as soon as a suitable candidate is identified. Start-date is negotiable.

For full consideration, materials must be received no later than Friday, November 2, 2007. However, applications will be accepted until the position is filled. For questions regarding the position, please contact Rachel Mueller: Rachel.Mueller@colostate.edu. Also, please visit the lab website: <http://rydberg.biology.colostate.edu/muellerlab> To apply for the position, please submit the following application materials as a single pdf file: (1) CV, (2) one-page statement of research interests, (3) up to three recent publications, and (4) contact information for three referees to: <http://www.natsci.colostate.edu/searches/evolpdoc/> Colorado State University does not discriminate on the basis of race, age, color, religion, national origin, gender, disability, sexual orientation, veteran status or disability. The University complies with the Civil Rights Act of 1964, related Executive Orders 11246 and 11375, Title IX of the Education Amendments Act of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veteran's readjustment Act of 1974, the Age Discrimination in Employment Act of 1967, as amended, Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, and all civil rights laws of the State of Colorado. Accordingly, equal opportunity of employment and admission shall be extended to all persons and the University shall promote equal opportunity and treatment through a positive and continuing affirmative action program. The Office of Equal Opportunity and Diversity is located in 101 Student Services. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women and other protected class members are encouraged to apply and to so identify themselves.

rlm@lamar.colostate.edu

ColoStateU Phylogenetics

Post-Doctoral Position Colorado State University Department of Biology JOB DESCRIPTION

A post-doctoral position in phylogenetic systematics and molecular evolution is available in the Biology Department at Colorado State University. The successful candidate will use genomic data to study the effects of molecular evolutionary dynamics on the phylogenetic performance of genes at different timescales. Initial emphasis will be on the analysis of published sequences. Candidate must have completed his/her Ph.D. A strong background in phylogenetics or molecular evolution is required. Bioinformatic, genomic, and/or programming experience is preferred. The successful candidate will be expected to interact with incoming graduate and undergraduate students in a growing lab group, as well as with the CSU Center for Bioinformatics.

The Department of Biology at Colorado State University is an interdisciplinary group with a strong (and expanding) crew of evolutionary biologists. CSU is heavily oriented towards life sciences. In addition to the Department of Biology in the College of Natural Sciences, CSU has four other colleges dedicated to life science research: Applied Human Sciences, Agricultural Sciences, Veterinary Medicine & Biomedical Sciences, and the Warner College of Natural Resources. In addition, the Centers for Disease Control and Prevention, the United States Department of Agriculture, and the United States Geological Survey have active laboratories in Fort Collins.

Fort Collins is a beautiful city of 120,000 people located at the base of the Rocky Mountains. We enjoy easy access to world-class outdoor recreation and 300+ days of sunshine each year.

The position is available as soon as a suitable candidate is identified. Start-date is negotiable.

For full consideration, materials must be received no later than Friday, November 30, 2007. However, applications will be accepted until the position is filled. For questions regarding the position, please contact Rachel Mueller: Rachel.Mueller@colostate.edu. Also, please visit the lab website: <http://rydberg.biology.colostate.edu/muellerlab> To apply for the position, please submit the following application

materials as a single pdf file: (1) CV, (2) one-page statement of research interests, (3) up to three recent publications, and (4) contact information for three referees to: <http://www.natsci.colostate.edu/searches/evolpdoc/> Colorado State University does not discriminate on the basis of race, age, color, religion, national origin, gender, disability, sexual orientation, veteran status or disability. The University complies with the Civil Rights Act of 1964, related Executive Orders 11246 and 11375, Title IX of the Education Amendments Act of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veteran's readjustment Act of 1974, the Age Discrimination in Employment Act of 1967, as amended, Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, and all civil rights laws of the State of Colorado. Accordingly, equal opportunity of employment and admission shall be extended to all persons and the University shall promote equal opportunity and treatment through a positive and continuing affirmative action program. The Office of Equal Opportunity and Diversity is located in 101 Student Services. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women and other protected class members are encouraged to apply and to so identify themselves.

rlm@lamar.colostate.edu

CSIRO Rockhampton Australia SystemsBiology

POST DOCTORAL POSITION IN SYSTEMS BIOLOGY AT CSIRO AUSTRALIA

Applications are invited for post doctoral fellowship available at the JM Rendel laboratories in the Division of Livestock Industries, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Rockhampton, Australia. This position relate to high profile strategic scientific research projects in the area of Systems Biology and Quantitative Genomics in Livestock and are funded by the Office of the Chief Executive (OCE) of CSIRO.

Project: Systems Biology Genetic dissection of -omics variations Reference No. 2007/960

This is a three year appointment within the Systems Biology & Quantitative Genomics Group (Dr Haja Kadarmideen) at the JM Rendel laboratories,

CSIRO Livestock Industries in Rockhampton, Queensland, Australia. The fellow will work closely with Computational Biology Group (Dr Toni Reverter) and Bioinformatics group (Dr Brian Dalrymple) at Queensland Bioscience Precinct (QBP) in Brisbane, Statistical Genetics Group (Assoc. Prof. Peter Thompson) at the University of Sydney, Camden and with Systems Biology group (Dr Markus Herrgard) at the University of California San Diego, USA.

Full description of the position and project, selection criteria and application package for this position can be found at the following web link: http://recruitment.csiro.au/asp/Job_Details.asp?RefNo=-2007%2F960 This position is open to international applicants and offers an excellent opportunity for recent PhD graduates / young scientists to work in a rapidly emerging field of systems genetics and systems biology with internationally reputed group(s). In addition to computational / insilico investigations, training with large high throughput genomic and transcriptomic databases from beef cattle and sheep experiments are available. CSIRO offers a generous annual salary in the range of AUS \$65000 to AUS \$72000 plus employers contribution to superannuation. Application must be lodged online using the above web link.

Deadline for lodging application online is 5 NOVEMBER 2007.

Primary contact for informal enquiries: Dr Haja Kadarmideen Principal Research Scientist and Group Leader, Computational and Systems Biology Stream, CSIRO Livestock Industries, JM Rendel Laboratory, Ibis Ave Rockhampton QLD 4701 AUSTRALIA

Phone: + 61 7 4923 8266 Fax: + 61 7 4923 8222 Email: Haja.Kadarmideen@csiro.au Web: www.csiro.au/li
Haja.Kadarmideen@csiro.au

DukeU YeastQuantGenetics

NIH-funded postdoctoral positions are available at Duke University Medical Center (Durham, NC) to study quantitative (complex) traits in *S. cerevisiae*; for example, see Nature 416:326-330 (2002) and PLoS Genetics 2(2):e13 (2006).

<http://www.duke.edu/web/microlabs/mccusker/> Applicants should have 0 to (at most) 2 years of post-doctoral experience and a strong background in at

least one of three areas - yeast genetics, quantitative/population genetics and/or genomics/informatics - and a desire to expand into the other listed areas. While not a requirement, eligibility for NIH fellowships/training grants or other fellowship funding will be viewed positively. Start dates are flexible.

Applicants should email their curriculum vitae and the names/email addresses of three references to John McCusker <mccus001@mc.duke.edu>.

John H. McCusker, Assoc. Prof. Dept. of Molecular Genetics & Microbiology, 3020 Duke University Medical Center Durham, NC 27710

<http://www.duke.edu/web/microlabs/mccusker/>
phone: (919) 681-6744 fax: (919) 684-8735 e-mail: mccus001@mc.duke.edu

PLASMID REQUESTS: PLEASE CHECK WEB SITE

John McCusker <mccus001@mc.duke.edu>

HarvardMedSchool HumanEvolution

Postdoc Position Available at Harvard Medical School and the Broad Institute of Harvard and MIT

We are searching for a highly motivated postdoctoral researcher to join our group. The focus of the position will be on using a combination of theoretical and experimental approaches to study questions in human history, evolution and disease gene mapping. The successful candidate will have very strong statistical / mathematical / computational skills. While a background in population genetics, bioinformatics or experimental biology is advantageous, it is not necessary. Our lab has the resources to not only analyze public data sets, but also to directly test new methodological ideas.

Three possible projects are: (i) Searching for genes causing human diseases with whole genome scans in populations with mixed ancestry such as African Americans, Latinos and South Asians. (ii) Studying the evolutionary history of human populations using genetic data. (iii) Using patterns of genetic variation to study the process of speciation. The position is available for up to three years beginning from now until September of 2008. Description of additional projects in our lab, as well as papers we have recently published, is provided at our website, [http://](http://genopath.med.harvard.edu/~reich/index.html)

[/genopath.med.harvard.edu/~reich/index.html](http://genopath.med.harvard.edu/~reich/index.html) . The position will be jointly supervised by Drs. David Reich and Nick Patterson, and will involve work at both the Department of Genetics Harvard Medical School and the Broad Institute of Harvard and MIT. Please write to reich@genetics.med.harvard.edu if you are interested in this position.

David Reich <reich@genetics.med.harvard.edu>

HarvardU EvolOfMorpholgy

Postdoctoral Positions Studying the Evolution of Morphology.

Applicants should have extensive experience in the comparative phylogenetic study of embryology of reptiles or amphibians, or in the comparative phylogenetic study of functional morphology of reptiles in an ecological context. Research will be directed to understanding convergent evolution in lizards. To apply, send a curriculum vitae to Jonathan Losos, Department of Organismic and Evolutionary Biology, Harvard University by email: jlosos@oeb.harvard.edu <<mailto:jlosos@oeb.harvard.edu>>. Applications must be received by Nov 11, 2007.

– Jonathan B. Losos Museum of Comparative Zoology and Department of Organismic and Evolutionary Biology Office: Museum of Comparative Zoology Labs 204 26 Oxford St. Harvard University Cambridge, MA 02138 617-495-9835 617-495-5667 (fax) <http://www.oeb.harvard.edu/faculty/losos/jblosos/> Jonathan Losos <jlosos@oeb.harvard.edu>

LehighU ButterflyEvolGenomics

Lehigh University

Department of Biological Sciences

Postdoctoral position: Evolutionary & Functional Genomics of Butterfly Mimicry

A two-year, fully-funded, postdoctoral position is available in the Mullen lab at Lehigh University to investigate the genetic basis of mimicry and speciation in North American admiral butterflies (genus *Limenitis*).

Mimicry has evolved multiple times in this radiation and hybridization is widespread between closely-related wing pattern races.

Current work in the lab is aimed at elucidating the genomic regions underlying Batesian mimicry in a polymorphic species complex using both QTL and linkage disequilibrium mapping. Candidate wing patterning and pigmentation genes, as well as other single-copy co-dominant markers, are also being mapped to facilitate comparisons to previously identified genome regions influencing wing pattern in *Heliconius* butterflies. In addition, the successful candidate will have opportunities to develop normalized cDNA libraries from imaginal wing disc tissues and oversee a large-scale EST sequencing project to identify additional candidate patterning genes.

Ideal candidates would possess a broad background in evolutionary biology, previous experience with high throughput DNA sequencing and genotyping, QTL mapping, real-time PCR, cDNA library construction, and strong analytical skills.

The position includes a competitive salary and benefits and funding is available immediately (preferred start date is May '08).

To apply, send a C.V., a brief description of research interests, and contact information for three references to Dr. Sean Mullen at sem307@lehigh.edu.

For more information about Lehigh's Biology Department see: <http://www.lehigh.edu/~inbios/> Sean P. Mullen, Ph.D. Assistant Professor of Evolutionary Biology Department of Biological Sciences 111 Research Drive, D216 Iacocca Hall Lehigh University Bethlehem, PA 18015

sem307@lehigh.edu sem307@lehigh.edu

Marseille Coalescence Comparative Phylogeography

*Post-doc fellowship : *Meta-analysis of population genetic and comparative phylogeography data from several European marine species.

Key words: comparative phylogeography, coalescence theory, vicariance, dispersion, refugia, transition zone

Profile: The ideal candidate should have a strong background in genetic data analyses, in particular those

using the coalescent theory, and ideally programming skills. The candidate should be autonomous for the theoretical aspect or should have a strong potential to update his knowledge in this domain.

Scientific context: *Very few theoretical tools are available for hypotheses testing in the field of comparative phylogeography (e.g. Hickerson et al 2006, worked on testing a common vicariance hypothesis for a group of species). However, the recent development of coalescent methods may allow to test more general hypotheses, such as for example the hypothesis that a given /permeable/ barrier (e.g. the Gibraltar strait) originated at the same date for a group of species. Additional methods may eventually be suggested by the candidate.

Gbirrm consortium: The GBIRM project joins several European research teams involved in population genetics and phylogeography of marine organisms (macrophytes, fish and invertebrates). Its main scientific goal is to jointly analyse population genetic data from numerous marine species in common geographic areas, in order to reveal common patterns of the geographic distribution of genetic diversity, and to try to identify how life history traits (e.g. presence/absence of a dispersal phase) and environmental factors affect these patterns.

Tasks: The members of GBIRM decided to hire a post-doc who should provide an added value in the joint analysis of our data sets : he would apply and, if possible, develop analytical methods allowing hypothesis testing in the field of comparative phylogeography. The goal of the post-doc is to analyse this multi-specific dataset in a comparative way. The post-doc will communicate his results in several meetings, some already planned : in Crete (Greece) in June 2008 to present the results and in an international congress in Valencia (Spain).

Institutional Context : consortium (Genetic biodiversity) of the European Network of Excellence MAR-BEF (Marine biodiversity and ecosystem functioning).

._< <http://www.com.univ-mrs.fr/DIMAR/GBIRM/-GBIRM%20activity.htm> >._

***Date* : 1/01/2008 (duration 1 year)

Location : laboratoire DIMAR - Marseille (Mediterranean Sea)- FRANCE

Contact : Anne Chenuil - Email : anne.chenuil-maurel@univmed.fr <<mailto:anne.chenuil-maurel@univmed.fr>> V Tel : +33-(0)4941041617

- Anne CHENUIL

PLEASE USE NOW MY NEW EMAIL ADDRESS : <anne.chenuil-maurel@univmed.fr> or

<chenuil@univmed.fr>

THAT WILL REPLACE THE OLD ONE
<chenuil@com.univ-mrs.fr>

UMR 6540 CNRS DIMAR Centre d'Océanologie de
Marseille Station Marine d'Endoume Chemin de la Bat-
terie des Lions 13007 MARSEILLE Tel.: +33 (0)4 91
04 16 17 Fax: +33 (0)4 91 04 16 35

<<http://www.com.univ-mrs.fr/DIMAR/>>

Anne CHENUIL <chenuil@com.univ-mrs.fr>

Montpellier PopGenetics

Merci de diffuser l'annonce de Post Doc ci-dessous (en anglais puis en français). Jean Carlier

Post-doctoral position [1214]

The CIRAD wishes to reinforce its competences in population genetics in order to understand and to predict the evolution of populations of fungal plant pathogens. This research aims to prevent emergences and to define durable strategies to control fungal plant diseases. The studies proposed during this post-doctoral stage will be concentrated on the dispersal processes and the estimate of demographic parameters in the *Microcyclus ulei* fungus, main threat on rubber cultivation.

Please quote reference in all correspondence :1214 Date of publication : 2007-10-01 Closing date :2007-11-12

Job description: The dispersal of plant pathogenic fungi is a major factor involved in the emergence of fungal plant diseases and in the adaptation of pathogen populations. New methods in population genetics have recently been developed to study how the landscape affects population structure ('landscape genetics') and to estimate demographic parameters (efficient numbers, introgression rate, gene flow, etc.). However, such methods do not usually take into account characteristics specific to the plant pathogenic fungi, such as large populations, frequent extinction and colonization events, the different types of reproduction (sexual/asexual), strong selection due to interaction with one or more hosts. The successful applicant for this post will be required to adapt population genetics methods to studies the dispersal of plant pathogenic fungi. The target of the study will be *Microcyclus ulei*, a fungus responsible for the main disease of rubber trees on the American continent, whose possibilities for dispersion constitute today a threat for rubber tree crops

throughout the world.

Profile required: PhD in population genetics. You have to control the theoretical bases and the methods of population genetics. You have got an experience in molecular markers, data analysis and modelling in population genetics.

Location: Montpellier

Type of contract: Fixed term contrat Duration: 18 months

Start date: 1/12/2007

Information on the post Christian Cilas + 33 4 67 61 56 09 christian.cilas@cirad.fr Jean Carlier + 33 4 99 62 48 09 jean.carlier@cirad.fr Franck Rivano + 33 4 67 61 71 01 franck.rivano@cirad.fr

Apply on line Cirad-Drh/Emploi TA 174/04 34398 Montpellier Cedex 5, France emploi@cirad.fr

Chercheur en génétique des populations [1214]

Le CIRAD souhaite renforcer ses compétences en génétique des populations afin de comprendre et de prédire l'évolution des populations de champignons phytopathogènes. Ces recherches ont pour objectif de prévenir les émergences et de définir des stratégies durables de contrôle de maladies fongiques de plantes. Les études proposées dans le cadre de ce séjour post-doctoral seront concentrées sur les processus de dispersion et l'estimation de paramètres démographiques chez le champignon *Microcyclus ulei*, menace principale de l'hévéaculture.

Référence à rappeler : 1214 Date de publication : 2007-10-01 Date de clôture :2007-11-12

Descriptif du poste La dispersion des champignons phytopathogènes est un facteur important impliqué dans l'émergence de maladies végétales et dans l'adaptation des populations d'agents pathogènes. De nouvelles méthodes de génétique des populations ont été récemment développées pour étudier les effets du paysage sur la structure des populations (landscape genetics) et pour estimer des paramètres démographiques (effectifs efficaces, taux d'introgression, flux de gènes). Cependant, le plus souvent, ces méthodes ne prennent pas en compte des caractéristiques propres aux champignons phytopathogènes comme, par exemple, des populations à larges effectifs, des événements d'extinction et de colonisation fréquents, une reproduction sexuée et/ou asexuée, une forte sélection due à l'interaction avec un ou plusieurs hôtes. Le candidat au présent recrutement sera chargé d'adapter des méthodes de génétique des populations pour étudier la dispersion des champignons phytopathogènes. Il aura pour objet d'étude *Microcyclus ulei*, champignon respons-

able de la principale maladie des hévéas sur le continent américain, dont les possibilités de dispersion constituent aujourd'hui une menace pour l'hévéaculture à travers le monde.

Profil souhaité Docteur en génétique des populations. Vous maîtrisez les bases théoriques et les méthodes de génétiques des populations. Vous avez une expérience d'utilisation de marqueurs moléculaires, d'analyse de données et de modélisation en génétique des populations.

Lieu d'affectation : Montpellier

Type de contrat : CDD

Date de prise de fonction : 1/12/2007

Renseignements sur le poste : Christian Cilas 04 67 61 56 09 christian.cilas@cirad.fr

— / —

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>

NHM Paris Biodiversity

Post doc in community ecology biodiversity monitoring

A two-year post-doctoral position is available in the 'Conservation Biology' group at the Natural History Museum, Paris, France.

The research project will involve the study of the spatial and temporal dynamics of functional biodiversity, using long-term community monitoring and new statistical tools incorporating (functional) differences among species. Questions of interest include: the consequences of species loss on ecosystem functioning, the influence of landscape and climate changes on functional diversity, and the role of species life history traits on their sensitivity to environmental changes. These questions will be addressed using data from two monitoring programs: a long-term national survey of common birds and a recently developed regional survey of common flowering plants.

The successful candidate will also have the opportunity to develop independent side projects.

The proposed start date is 1 February, 2008, but is negotiable. The project is funded by the French Science

Foundation (ANR) and funds are currently available to support this position for up to two years.

The successful applicant will have a PhD and extensive experience with community ecology and ecological statistics or theoretical ecology. Applicants must submit (1) statement of research interest, (2) a curriculum vitae and (3) the names and addresses of two-three references (including e-mail and phone number) to Emmanuelle Porcher by e-mail (porcher@mnhn.fr). Application review will begin November 15, 2007, and will continue until the position is filled.

– Emmanuelle PORCHER

UMR 5173 Conservation des Espèces, Restauration et Suivi des Populations et UMS 2699 Inventaire et Suivi de la Biodiversité

Muséum National d'Histoire Naturelle Case Postale 53 61 rue Buffon 75005 Paris

Tél. : 01 40 79 53 61 Fax : 01 40 79 35 53

porcher@mnhn.fr

OldDominionU Euteleost TreeOfLife

Postdoctoral and graduate research assistantship opportunities available - Euteleost Tree of Life - Old Dominion University, University of Florida, University of Nebraska and University of Oklahoma.

The Euteleost Tree of Life project is seeking qualified candidates to fill several postdoctoral fellowships and graduate assistantships to work on data generation, analyses, bioinformatics and other facets of a large-scale phylogenetic study of fishes. Opportunities are available immediately and over the next three years at Old Dominion University, University of Florida, University of Nebraska at Omaha and University of Oklahoma. Please contact Kent Carpenter (kcarpent@odu.edu - Old Dominion), Andres Lopez (andresl@ufl.edu - Florida), Guoqing Lu (glu3@mail.unomaha.edu - Nebraska) or Richard Broughton (rbroughton@ou.edu - Oklahoma) for detailed information on the positions available at each of these project sites. Candidates with a background and/or strong interest in ichthyology or bioinformatics are encouraged to inquire.

andresl@ufl.edu andresl@ufl.edu

Stockholm InvertebratePhylogeny

Postdoctoral research associate

A two year postdoctoral position is available to study the phylogeny of the lower Bilateria at the Department of Invertebrate Zoology, Swedish Museum of Natural History, Stockholm, Sweden.

Swedish Museum of Natural History (www.nrm.se): We have a strong focus on research in organismal diversity and evolution where the extensive collections play an important part. Our laboratory of molecular systematics forms a hub for phylogenetic projects dealing with animals, fungi and plants. Scanning and transmission electron microscopes are available for morphological studies. The department of Invertebrate Zoology will move into renovated and refurbished premises in early 2008. The research division of SMNH offers a broad international working environment and consists of approximately 190 scientists, postgraduate students, administrative and technical personnel from various countries.

Project: Reconstruction of early bilaterian evolution is the central theme for our group. The origin of Bilateria is one of the most important events in animal evolution as it led to an unparalleled explosion of diversity. We study the phylogeny and taxonomy of the poorly known marine worm groups Acoela and Nemertodermatida, formerly classified as flatworms, but now thought to be early bilaterian clades. Comprehensive taxonomic sampling of rDNA and mitochondrial genes is emphasized, as well as morphological data such as sperm ultrastructure and morphology of the nervous system, studied with confocal microscopy. The aim is to provide robust phylogenetic hypotheses and comprehensive classifications. The hypotheses will allow reconstruction of acoel and nemertodermatid ancestors and ultimately the ancestral bilaterian. Sequencing of mitochondrial genomes and ESTs from Nemertodermatida, Acoela and Gastrotricha provides a further test of their position and data for other bilaterian phylogenies, e.g. determining the position of Gastrotricha and Gnathifera without the disadvantage of distant outgroups such as Cnidaria. This postdoctoral project will specifically focus on reconstructing phylogeny from mitochondrial genomes and low copy nuclear genes in key acoel, nemertodermatid and gastrotrich taxa. Starting date by agreement.

Candidates: Interested candidates should have a PhD with experience in molecular phylogenetics including mitochondrial genome sequencing and phylogenetic analysis of sequence data. Experience in working with microscopic invertebrates (meiofauna) is desirable.

Further information can be obtained from Prof. Ulf Jondelius ulf.jondelius@nrm.se.

Please send your application Marked "dnr 33-674/2007" including a brief statement of research interests, CV and names with addresses of 2 references to rekrytering@nrm.se. Closing date is 20 November 2007.

Professor Ulf Jondelius, PhD Head of department Invertebrate Zoology Swedish Museum of Natural History Box 50007 SE-104 05 Stockholm, Sweden tel +46-8-5195 40 51 mobile +46-70 783 87 11

ulf.jondelius@nrm.se ulf.jondelius@nrm.se

Toulouse AntFungusAssociations

Post-doctoral position in molecular biology: fungi and ant/fungus associations.

An 18-month post-doctoral position is available starting in January 2008 in the Evolution et Diversité Biologique laboratory (Toulouse, France, <http://www.edb.ups-tlse.fr>). The position is funded by a "Jeunes Chercheurs" grant provided through the French government's Agence Nationale de la Recherche. The project is named 'Allomerus' and aims to obtain a fully comprehensive understanding of a novel tripartite system between an ant species, a plant and a sooty mould. The targeted model system is the Guianian ant-plant *Hirtella physophora*, its ant associate *Allomerus decemarticulatus* and a sooty mould manipulated by the ants to build a trap in order to capture prey (Dejean et al., 2005, *Nature* 434: 973). The general objectives include the study of (i) the nature and roles of selective filters in the observed pattern of the association and the evolutionary ecology of this ant-plant association; (ii) the nature of the association between the ant and the sooty mould; and (iii) the spatial population genetic structure of the three partners to infer the transmission modes of these associations. Within this general framework, the proposed post-doctoral project will use molecular analyses to evaluate the specificity of the ant/fungus association at both the interspecific and intraspecific levels. The position will require the

researcher to (i) determine the taxonomic position of the fungi involved by sequencing the rRNA genes and through phylogenetic analysis; (ii) develop molecular markers to evaluate the genetic diversity of a potentially ant-manipulated fungus and (iii) evaluate the dependence on the association of both partners. The applicant should have a PhD in Biology, Environmental Sciences, Microbiology, Molecular Biology or related areas. Proficiency in molecular biology is required and knowledge of fungi and/or social insects is preferred, but not essential. Note that the position will involve field trips to French Guiana to collect samples and conduct experiments. Field experience in the tropics would then be useful, as would a working knowledge of French. Applicants should send a copy of their curriculum vitae describing their skills and work experience, recommendation letter(s) and relevant publications to Jerome Orivel (orivel@cict.fr) before the 9th of November, 2007 or until the position is filled.

For informal enquiries: Hervé Gryta (gryta@cict.fr)
Patricia Jargeat (jargeat@cict.fr) Jerome Orivel
(orivel@cict.fr)

orivel@cict.fr orivel@cict.fr

UBritishColumbia ComparativeGenomics

Postdoctoral Position in Comparative Genomics

A postdoctoral position is available in the area of comparative genomics of conifers. Specific activities may include analysis of sequence evolution across conifer taxa, association genetics of white spruce (combined QTL mapping and SNP associations), expression QTL mapping for insect defense, and inferences about conifer genome structure via targeted BAC sequencing. Experience with programming is essential. The person will be member of a large, interactive forestry genomics group, involved with many aspects of genomics including EST sequencing, databasing, microarrays, proteomics, and SNP discovery/assay (see www.treenomix.ca).

Please send your C.V. to: Kermit Ritland, Department of Forest Sciences, University of British Columbia, Vancouver, B.C. V6T1Z4 Canada. Email: Kermit.Ritland@ubc.ca. The position is available January 1, 2008 for a two year period.

Kermit Ritland <kermit.ritland@ubc.ca>

UBritishColumbia FellowshipPosition IonChannelEvol

UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

We have openings for a postdoctoral scientist in the field of the ion channel evolution. A strong interest in molecular evolution is required; training in the cloning of novel genes from lower vertebrates and invertebrates, knowledge of phylogenetic inference and the use of programs such as PAML, HyPhy, Phylip and Mr. Bayes, and/or strong quantitative, mathematical or statistical backgrounds are preferred. More important are curiosity, a passion for understanding how things work, and a talent for independent research, supported by a good record of publication. We have postdoctoral funding for one year, during which the applicants will be encouraged to apply for NSERC funding (first deadline October 15th, 2007). In addition to the Westgrid computer cluster, we have invested in a 8-core MacPro workstation for carrying out our work. The new person will have use of this computer as well as office space.

Vancouver, and the University of British Columbia, is a great place to live and work. We have moved into impressive new laboratory space in the new Life Sciences Institute (www.lsi.ubc.ca). We are part of the fledgling Cardiovascular Group within the Institute, which now has six members with strengths in ion channel structure, function and biology. The LSI includes investigators in a variety of areas in the Life Sciences. Many other such groups exist on and off the UBC campus. Overall, the environment is stimulating and diverse, and there is access to excellent core facilities and support. We maintain collaborations with a number of investigators and groups in Vancouver, including those on campus, as well as those at nearby Children & Family Research Institute and Simon Fraser University. A strong interest in evolutionary biology also exists at UBC.

Please apply by sending an e-mail which includes CV, brief statements about your research background, training, and interests, reasons for wanting to join our group, and contact information for 3 referees, to

Eric Accili, Associate Professor, eaacili@interchange.ubc.ca Department of Cellular and Physiological Sciences www.cellphys.ubc.ca University

of British Columbia www.ubc.ca , Vancouver, BC, Canada

UBC hires on the basis of merit, is committed to employment equity, and encourages all qualified individuals to apply.

The closing date for the first round of applications is October 5th, 2007.

Eric Accili <eaaccili@interchange.ubc.ca>

employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to gradcoordinator@ucdavis.edu.

Stephanie

Population Biology Graduate Group

University of California, Davis

Stephanie

<smaceygallow@ucdavis.edu>

Macey-Gallow

UCaliforniaDavis PopulationBiology

EFFECTIVE: NOVEMBER 1, 2007

DEADLINE: NOVEMBER 23, 2007

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY—The Center for Population Biology at U. C. Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed their PhD. The position is for two years, subject to review after one year, and can begin as early as 1 July 2008. It has an annual salary of \$38,000 plus benefits, and \$6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. For more information about UCD programs in population biology, see <http://www.cpb.ucdavis.edu> < <http://www.cpb.ucdavis.edu/> > .

ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, and a short (1-2 page) description of proposed research including potential faculty mentors, and copies of two publications at <http://www2.eve.ucdavis.edu/jobs/> all as PDFs. We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on-line instructions for further information. For full consideration, applications should be received by November 23, 2007. The University of California is an affirmative action/equal opportunity

UCollegeLondon CodonSubstModels

Postdoctoral Position in Molecular Evolution

A nine-month postdoctoral research fellow position is available in Professor Ziheng Yang's group. The project is funded by the BBSRC and aims to extend and develop models of codon substitution for comparative analysis of protein-coding genes to infer the effects of natural selection (see, e.g., *Mol. Biol. Evol.* 22:1107-1118 *Mol Biol Evol* 24:1219-1228). Researchers with expertise in statistical modelling and computer programming are invited to apply, as well as those with expertise in population genetics and evolutionary biology who are interested in analysis of real data sets.

Salary is at Grade 7, from 26,666 to 32,796 PA, plus 2,572 PA London Allowance. The position is available immediately and should start no later than 1 June 2008.

The application form, job description and person specification can be downloaded from: <http://www.ucl.ac.uk/biology/academic-staff/vacancies/postdoc.html> Applications (including a CV, a statement of research interest, and the names and email addresses for three references) should be sent to Ian Evans, Department of Biology, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK (ian.evans@ucl.ac.uk). Enquiries should be made, by email, to Professor Ziheng Yang FRS at z.yang@ucl.ac.uk.

The closing date for applications is Tuesday, 20th November 2007.

Taking Action For Equality

z.yang@ucl.ac.uk z.yang@ucl.ac.uk

UEdinburgh Coalescent Theory

A post-doctoral position is available from January 2008, to work with Nick Barton and Alison Etheridge on “Models of spatially structured populations”. The project is to develop coalescent-based models of spatially structured populations that include extinction and long-range movement, and to investigate the consequent patterns for genetic variation. Strong computing skills are essential, and experience with population genetic modelling highly desirable.

The project is funded for three years by the Engineering and Physical Sciences Research Council. The postdoc would be based in the Institute of Evolutionary Biology in Edinburgh (www.biology.ed.ac.uk), but would collaborate with Alison Etheridge and with a graduate student, both based in Oxford.

For further details, please contact n.barton@ed.ac.uk.
n.barton@ed.ac.uk n.barton@ed.ac.uk

UGeorgia Crop Hybridization

A postdoctoral position is available to study sunflower crop-wild hybridization in the Burke lab at the University of Georgia. This position involves an investigation of the fitness of sunflower crop-wild hybrids under natural conditions, and also offers the opportunity to develop independent research projects. Candidates should have a strong background in population and/or quantitative genetics as well as experience applying molecular markers to evolutionary questions. Funds are currently available to support this position for up to two years.

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

John M. Burke, PhD University of Georgia Department of Plant Biology Athens, GA 30602

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

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

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

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

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

jmburke@uga.edu jmburke@uga.edu

UGroningen Speciation Biodiversity

Two 4-year PhD or 2-year post-doc positions in Evolutionary and Theoretical Community Ecology

What? 2 PhD positions (4 years) or postdoc positions (2 years) When? January 2008 (later starting date is possible) Where? Community and Conservation Ecology Group (Dr. Rampal S. Etienne), Center of Evolutionary and Ecological Studies (CEES), University of Groningen, The Netherlands

“Throw up a handful of feathers, and all must fall to the ground according to definite laws; but how simple is this problem compared to the action and reaction of the innumerable plants and animals which have determined, in the course of centuries, the proportional numbers and kinds of trees now growing on the old Indian ruins!”

This exclamation by Darwin in his famous book on the origin of species still rings very true today: while physicists have discovered laws governing the tiniest particles and the largest stellar objects, biologists are still struggling to understand how species are formed (speciation) and how they coexist. Some have tried to explain the emergence of new species, but stopped short of studying what this means for the biodiversity patterns that we observe today, such as how the abundances of species differ between species, how the numbers of species vary over spatial distances, and how the relatedness of species varies with their abundance and spatial location. Others have studied how such patterns are maintained, but they did not study the processes that formed the basic components of these patterns. This project will be aimed at completing the full circle:

(A) With theoretical models we will study how speciation gives rise to biodiversity patterns and how these

patterns in turn influence speciation. (B) We will confront the models to biodiversity data sets, (being) collected in our group. In this synthetic evolutionary-ecological framework the relative contributions to biodiversity in an ecological community of (1) species' functions (traits) and interactions, of (2) the common evolutionary history (phylogeny) of species, and of (3) birth, death and dispersal/migration of individuals will be identified.

The positions are part of an NWO-VIDI grant awarded to Dr. Rampal Etienne. More detailed information on subprojects is available on request.

We offer: Two PhD scholarships for a period of 4 years. Within this period, the work should lead to a PhD thesis and a PhD defense at the University of Groningen. The gross amount of the scholarship is 1422 per month. Interested postdocs may also apply to be appointed for a period up to 2 years.

We look for: Quantitative evolutionary biologists / (community) ecologists, or a biology-minded mathematicians or physicists.

We require: Expertise in theoretical/mathematical modelling and/or data analysis. Excellent communication skills with good command of oral and written English.

We encourage: Exciting ideas within the general framework of the project. Although the emphasis of the research will be on theoretical work, empirical (field or lab) work is also possible, if strengthening the project.

For direct applications (including a letter of motivation, a description of previous relevant research experience, CV with list of any publications, full contact information of 2 references) or further information, please contact Dr. Rampal S. Etienne (r.s.etienne@rug.nl).

Rampal S. Etienne, PhD. Community and Conservation Ecology Group University of Groningen Box 14 9750 AA Haren The Netherlands Tel: +31 50 363 2230 r.s.etienne@rug.nl Web: <http://www.rug.nl/biologie/-onderzoek/onderzoekgroepen/cocon/people/etienne>
Rampal S Etienne <R.S.Etienne@rug.nl>

UHawaii PhyloComparativeMethods

POSTDOCTORAL position in PHYLOGENETIC COMPARATIVE METHODS

University of Hawaii

I am seeking a highly motivated postdoc to work on an 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 are currently in the development phase of the bivariate model, exploration of its properties, and application to datasets.

Applicants should have scientific programming experience, and either knowledge of evolutionary theory or biological modeling. Excellent communication abilities and good interpersonal skills are necessary.

Desired Qualifications: Experience in comparative phylogenetic methods, programming in R.

Compensation: salary will be competitive. A student health plan is available. Funding for one year, renewable for second year with sufficient progress.

Start Date: Flexible

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 Please address in your cover letter which of the project objectives you are interested in working on, and especially comment on any relevant experience.

Review of applications begins Nov. 1 2007 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 (slightly out of date; please feel free to contact me for more info) <http://www2.hawaii.edu/~mbutler> <http://www.hawaii.edu/zoology/faculty/butler.html>

Desktop computers are generally sufficient for OUCH analyses, however, access is available to the Maui High Performance Computing Center for those interested in parallel computing: <http://www.mhpc.hpc.mil/>

UH Manoa is a public, land- space- and sea- grant research institution committed to basic and applied research, teaching and service. Located in the lovely Manoa valley, it is minutes from downtown Honolulu and Waikiki. Apartments are available within easy walking or biking distance of the campus. The climate is comfortably warm year-round, and environmental heterogeneity and extreme isolation has given rise to a fantastic natural laboratory of evolution.

Marguerite A. Butler Department of Zoology University of Hawaii 2538 McCarthy Mall, Edmondson 259 Honolulu, HI 96822

Phone: 808-956-4713 FAX: 808-956-9812 Dept: 808-956-8617 <http://www2.hawaii.edu/~mbutler> <http://www.hawaii.edu/zoology/> mbutler@hawaii.edu mbutler@hawaii.edu

Illinois ParasitoidWaspSystematics

Postdoctoral Research Associate, University of Illinois (Parasitoid Wasp Systematics and Bioinformatics)

A 2-year postdoctoral research associate position is available in the Department of Entomology (<http://www.life.uiuc.edu/entomology/index.html>) at the University of Illinois, Urbana-Champaign. The position is associated with NSF-funded research on braconid parasitoid wasps in the laboratory of Dr. James Whitfield (<http://www.life.uiuc.edu/whitfield>). The Department

of Entomology has recently been ranked #1 nationally among Entomology graduate programs, and the post-doc will join a leading laboratory in insect molecular systematics with close ties to other top insect systematics labs both on campus and at the Illinois Natural History Survey.

Molecular systematics of the hyperdiverse genus *Heterospilus*/

Funded by NSF RevSys 0717365, this project combines monographic taxonomic work on the speciose braconid wasp genus *Heterospilus*/ in Costa Rica with a multi-gene phylogenetic exploration of the genus on a broader (world) geographic scale. The postdoctoral associate will assist Dr. Paul Marsh (http://www.life.uiuc.edu/-whitfield/Paul_Marsh.html) with the taxonomic part of the study, databasing the taxonomic data and illustrations, designing online interactive identification keys, and helping author a Tree of Life webpage for the group. Parallel to this work, under the direction of Dr. Whitfield, a graduate student (position being advertised separately) will extract, amplify and sequence each of 3 genes from roughly 200 species of wasp, and conduct molecular phylogenetic analyses to test monophyly of the genus worldwide, and to explore relationships within the genus, especially for the neotropical fauna. For the postdoctoral position, some research experience in insect systematics is required, and experience with biodiversity informatics packages such as mx, Delta or LucID is highly desirable. The position is available as soon as Summer 2008.

Interested candidates should submit the following (preferably by email) to Dr. James Whitfield (jwhitfie@life.uiuc.edu):

- 1) A letter stating why you want to apply for the position, and why you think you would be the best person for this research. Please also include a broader perspective on your career and graduate school objectives.
- 2) A current curriculum vitae, including any previous research projects you have been involved with, honors, awards, publications and presentations.
- 3) A list of relevant field, laboratory and analytical techniques with which you have experience.
- 4) Names and contact information (email, phone, address) for at least 3 people who can supply reference letters.

We will begin assessing applications during early December. On order to receive full consideration for this position, please submit application materials by December 1 2007.

jwhitfie@life.uiuc.edu

UMichigan EvolGeneEnvInteractions

Post-Doc in Statistical Modeling of Gene-Environment Interaction University of Michigan

A post-doctoral position is available from January 2008, to work with Sebastian Zollner in collaboration with Noah Rosenberg on Methods for Gene-environment Interaction. We are interested in modeling gene-environment interaction, efficient methods for including environmental covariates in gene mapping and exploring the evolutionary consequences of gene-environment interaction. A possible project involves developing a model to define heritable subtypes of complex disorders such as bipolar disorder by analyzing the joint inheritance of endophenotypes and the clustering of environmental covariates in families. Strong computing skills are essential, and experience with statistical modeling is highly desirable.

The project is funded for three years by the National Institutes of Health. The postdoc will be based in the Department of Biostatistics (www.sph.umich.edu/-biostat) and the Center for Statistical Genetics (csg.sph.umich.edu) at the University of Michigan.

For further details, please contact szoellne@umich.edu.

Sebastian Zoellner <szoellne@med.umich.edu>

UMinnesota VirulenceEvolution

Postdoctoral Fellow University of Minnesota

Department of Ecology Evolution and Behavior

Postdoctoral fellow wanted to explore the evolution of virulence and resistance in spatially structured populations. The model experimental system consists of bacteriophage T4 and E. coli inhabiting 96-well plates with patterns of migration controlled using a high throughput liquid handling robot. A background in evolutionary ecology and a willingness to embrace technology an advantage. Applicants should include a CV and have three letters of recommendation sent to:

Prof. Antony M. Dean and Claudia Neuhauser

BioTechnology Institute 140 Gortner Laboratories 1479 Gortner Avenue St. Paul MN 55108

or email: deanx024@umn.edu

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, creed, religion, color, sex, national origin, disability, age, veteran status, marital status, public assistance status, or sexual orientation.

deanx024@umn.edu

UNebraska PopBiol

Postdoctoral Fellowships in Population Biology University of Nebraska Lincoln. <http://popbio.unl.edu/> (CALL FOR APPLICATIONS OPEN UNTIL 1 DEC)

The University of Nebraska Program of Excellence in Population Biology announces a two-year Postdoctoral Fellowship position for Spring 2008. The fellowship will provide recent graduates the opportunity for independent research in association with a growing, integrative, and cross-disciplinary group. Candidates will develop a research project with a faculty member associated with the Program (see list of core faculty at website). Salary is \$32,500 plus benefits. Responsibilities of the position also include teaching one graduate course (or seminar) per year in the Fellow's area of specialty. Applicant selection will be based on the research proposal, instruction plans, and academic credentials.

Applications are due December 1st, 2007, with target starting date Feb-March 2008. Qualified candidates need to contact a potential faculty advisor from the list of core faculty associated with the program to develop research and graduate instruction plans. A Ph.D. and expertise in any aspect of population biology is required. To apply, send a CV, a 5-page research proposal, and description of potential graduate seminars and arrange for three letters of reference, one of which must be from the proposed faculty sponsor, to the Population Biology Post-doctoral Fellowship Selection Committee, School of Biological Sciences, University of Nebraska-Lincoln, 348 Manter Hall, Lincoln, NE 68588-0118. Closing date is December 1st, 2007. Fellowship positions will remain open until suitable candidates are selected. UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity, and is responsive to the needs of dual career

couples. We assure responsible accommodation under the Americans with Disabilities Act.

Guillermo Orti School of Biological Sciences University of Nebraska 314 Manter Hall, Lincoln, NE 68588-0118, USA

Tel: 402-472-3433 – Fax: 402-472-2083 <http://golang.unl.edu> <http://deepfin.org> guilleorti@gmail.com

Dame, IN 46556-0369 E-mail: ferdig.1@nd.edu <<mailto:ferdig.1@nd.edu>> Phone: (574) 631-9973 <http://www.nd.edu/~ndbiopeg/ferdig.htm> <<http://www.nd.edu/~ndbiopeg/ferdig.htm>>

Mike Ferdig <mferdig@nd.edu>

UNotreDame MalariaGenomics

Postdoctoral and Graduate positions in malaria genomics

The malaria parasite, *Plasmodium falciparum*, continues to thrive, with increasingly multiple drug resistant and virulent strains emerging in some regions. Whole-genome views and associated methods promise new avenues for attack against malaria. We are recruiting motivated post docs and graduate students interested in combining wet-lab and computational approaches with a strong evolutionary perspective. Available projects include: 1) quantitative genetics of drug resistance and growth rates 2) gene expression (e)QTL and regulation 3) genome structure and variation, including copy number variation, conversions, recombination and mechanisms of rearrangements and amplification 4) biological networks and functional adaptations to drug selection. A wealth of comparative sequence data is available from many strains of *P. falciparum* and other *Plasmodium* and apicomplexan species (<http://www.broad.mit.edu/seq/msc/>; <http://www.plasmodb.org/plasmo/home.jsp>; <http://ApIDB.org> <<http://apidb.org/>>), setting the stage for comparative approaches, genome-wide screens and targeted re-sequencing.

The Department of Biology at Notre Dame is an interdisciplinary group, including a strong core of evolutionary biologists (<http://www.nd.edu/~ndbiopeg/index.htm>). Our lab enjoys interactions with other members of an expanding Genomics group and associated core facilities. Post doc positions are available as soon as suitable candidates are identified. Start dates are negotiable. Interested persons should send a CV, statement research interests, and contact details for 3-4 referees. Student application deadline to the Biology Department for Fall 2008 admission is Jan. 5, 2008.

Michael Ferdig, Principal Investigator Department of Biological Sciences University of Notre

UOxford PopulationGenomes

UNIVERSITY OF OXFORD Mathematics, Physical and Life Sciences Division

DEPARTMENT OF STATISTICS

POSTDOCTORAL RESEARCH ASSISTANT Fixed term appointment of 2 years?? duration Academic-related Research Staff Grade 7: Salary ??26,666 to ??32,796 (bar) per annum

READVERTISEMENT

The Research Project: From Population Genomes to Global Pedigrees.

Applications for the fixed term 2 years?? duration post of Postdoctoral Research Assistant funded by EPSRC are invited from researchers interested in working on this high-impact project. Candidates should have relevant background and research experience in computer science/statistics/mathematics. Details of the project can be found at: <http://mathgen.stats.ox.ac.uk/bioinformatics/> The project involves collaboration between Professor Mike Steel (Christchurch, New Zealand) and Professor Jotun Hein (Oxford, UK). The applicant will spend most time in Oxford, but will have 2 longer stays in New Zealand.

Informal enquiries should be addressed to Professor Jotun Hein: hein@stats.ox.ac.uk

Further particulars are available on request from the address below or from jobs@stats.ox.ac.uk/vacancies

Applicants should send 7 copies (one for overseas applicants) of a CV detailing research interests, a publication list and contact details of three referees to

Personnel Administration, Department of Statistics, 1 South Parks Road, Oxford OX1 3TG. Tel 01865 272860 Fax +44 1865 272595

Please quote reference: AM-07-008 in all correspondence.

The closing date for applications is Friday, 9 November 2007.

Christine Stone P/A to Head of Department & Professional Secretary Department of Statistics, University of Oxford 1 South Parks Road Oxford OX1 3TG Tel: +44 0(1)865 272866/60 Fax: +44 0(1)865 272595

Christine Stone <cstone@stats.ox.ac.uk>

UOxford StatisticalGenetics

UNIVERSITY OF OXFORD

WELLCOME TRUST CENTRE FOR HUMAN GENETICS

4X Post Doctoral Research Scientists in Statistical Genetics GRADE 8: SALARY $\dot{i}_{\frac{1}{2}}$ 33,779 - $\dot{i}_{\frac{1}{2}}$ 40,335 or depending on qualifications and experience GRADE 7: $\dot{i}_{\frac{1}{2}}$ 26,666 - $\dot{i}_{\frac{1}{2}}$ 32,796 with an appropriate change of duties

An exciting opportunity has arisen for 4 post doctoral scientists in statistical genetics to work on one of the cutting-edge projects in human genetics in the groups of Professor Peter Donnelly and colleagues, in the second phase of the Wellcome Trust Case Control Consortium (WTCCC), the largest ever study of the genetics of common disease. Post holders will be involved in a combination of the development of novel methods, assessment of experimental designs, and analysis of data generated in the studies. They will specifically work collaboratively on one or several of: CNV association mapping; resequencing; or fine mapping.

Candidates should have a strong background in modern statistics and its application. An existing background in the application of statistics in genetics would be an advantage, but candidates wishing to move into the genetics field are also welcome to apply. Good computational skills are essential and candidates should be able to program in a low level language such as C or C++. Candidates should have a doctorate or equivalent experience in statistics or quantitative genetics. The posts are available for 2-3 years in the first instance and will be funded by the Wellcome Trust.

A detailed job description quoting reference H5-07-058-PD is available from the Personnel Administrator, (email: personnel@well.ox.ac.uk, tel: 01865 287508 or from our web page www.well.ox.ac.uk/vacancies). Applications, in the form of a full and detailed CV together with the names and addresses of two referees, should be sent to the Personnel Administrator at the Wellcome Trust Centre for Human Genetics, Roo-

sevelt Drive Oxford, OX3 7BN, or by email to; personnel@well.ox.ac.uk, or fax; 01865 287516. Please quote the reference number on your application. The closing date for applications is 16 November 2007.

Gilean McVean Professor of Statistical Genetics Department of Statistics 1 South Parks Road Oxford OX1 3TG UK

Tel: +44 1865 281881 Fax: +44 1865 281333
web: <http://www.stats.ox.ac.uk/~mcvean>
mcvean@stats.ox.ac.uk

UStAndrews DrosophilaEvolGenetics

Evolutionary genetics of sexual behaviour in *Drosophila montana*

A post-doctoral research position is available within the laboratory of Mike Ritchie at the University of St Andrews, working on the above project. This is a collaboration between the Universities of St Andrews & Sheffield, UK, and Jyväskylä, Finland. The aim of the project is to collect flies from replicate natural populations, rear pedigrees in the laboratory and use quantitative trait locus techniques to examine the inheritance of behaviours influencing sexual selection and speciation. Genetic markers to be scored will include candidate genes and one aim of the project is to assess any consistency of QTL positions for complex traits in different populations. Results will be compared with related studies of this and other species of *Drosophila*.

This position is funded by an NERC award to Mike Ritchie (St Andrews), Roger Butlin & Jon Slate (Sheffield).

There are no nationality restrictions on applications. A PhD in a relevant subject (evolutionary biology, quantitative or statistical genetics, molecular genetics, behaviour genetics) is essential. Main duties will involve establishment of the pedigrees, behavioural analysis, marker development, genotyping and quantitative genetic analysis. We also expect the successful applicant to participate in writing research papers and project management. Previous postdoctoral experience is preferred but not essential.

Further details can be obtained from Mike Ritchie (mgr@st-and.ac.uk) but please note that applications cannot be made direct to him but must be made through the University of St Andrews.

Proposed start date 1st February 2008

Application forms and further particulars are available from Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 01334 462571, by fax 01334 462570 or by e-mail Jobline@st-andrews.ac.uk). The advertisement and further particulars and a downloadable application form can be found at <http://www.st-andrews.ac.uk/-employment/>.

Please quote ref: ME048/07 Closing date: 31 October 2007

The University is committed to equality of opportunity.

—

Mike Ritchie School of Biology Dyers Brae House University of St Andrews St Andrews, Fife Scotland KY16 9TH

Phone 0 (44 outside UK) 1334 463495 Fax 0 (44 outside UK) 1334 463366

Website: <http://bio.st-andrews.ac.uk/staff/mgr.htm>
Make your presentations colour blind friendly: <http://jfly.iam.u-tokyo.ac.jp/color/index.html> Mike Ritchie
<bugs@st-andrews.ac.uk>

UToulouse IslandBirdEvolution

POSTDOCTORAL POSITION UNIVERSITY OF TOULOUSE

ISLAND BIRD EVOLUTION

A postdoctoral position is available immediately to work on a possible case of incipient, within-island, speciation in a bird taxon endemic to a small island. In the late 60s, Frank Gill conducted a very detailed study of plumage colour and morphometric variation in the Mascarene Grey White-Eye (*Zosterops borbonicus*) populations of the island of La Reunion and found phenotypic variation within the island that was geographically structured with possible hybrid zones between discrete lowland morphs and two distinct morphs occurring in sympatry in the highlands (Gill 1973 *Ornith. Monogr.*; available on SORA <http://elibrary.unm.edu/sora/>).

Recently, we showed that Mascarene Grey White-eyes from La Reunion form a monophyletic group (Warren et al. 2006 *Mol. Ecol.*). We have also obtained population genetic data indicating that there is substantial genetic differentiation among populations within the island but for many nuclear markers patterns of genetic variation do not match exactly with morphs (Mila et al. in prep).

The project will involve expanding the number of populations surveyed and investigating patterns of morphological and genetic variation along elevational gradients and across contact zones using a vast array of molecular markers that are already available. This will allow for a comprehensive examination of alternative mechanisms causing phenotypic divergence among morphs and across habitats and their implications in terms of within-island speciation.

This is a collaborative project involving Christophe Thebaud & Philip Heeb (CNRS & University of Toulouse), Borja Mila (Museum Natural History, Madrid), and Dominique Strasberg & Ben Warren (University of La Reunion). The postdoctoral research associate will be based in the Thebaud/Heeb lab in Toulouse and will be responsible for leading 3-5 mo field work on the island of La Reunion (usually with other members of the project). Most of the molecular work will be carried out using the state-of-the-art facilities of the Toulouse Genopole.

Candidates should have a PhD in a relevant field that may include evolutionary biology, animal behaviour, quantitative genetics, etc. Strong writing skills as evidenced through a publication record as well as excellent interpersonal skills are essential. Research experience with capturing and handling small birds is required (ideally the candidate should have a banding/ringing permit). Ability to speak French, or willingness to learn some basic French, is highly desirable. The position is for 18 months in the first instance.

Applicants should send a detailed CV, together with a 1-page statement of research interests and motivation and the names and e-mail addresses of two references to Christophe Thebaud at thebaud@cict.fr

Christophe Thebaud UMR 5174 CNRS-University of Toulouse F31062 Toulouse Cedex 4 France <http://www.edb.ups-tlse.fr/> thebaud@cict.fr thebaud@cict.fr

WorkshopsCourses

Helsinki MathEvol Aug24-31	97 99
Lyon ComparativeGenomics Jan14-25	97
Oeiras Portugal MolEvol Nov19-23	98
Sabah Malaysia Biodiversity	98
SanDiego PopulationConservationGenomics Jan12-16	99
	Smithsonian EvolutionaryPhycology Jul9-23 99
	Smithsonian ShrimpTaxonomy Aug4-16 100

Helsinki MathEvol Aug24-31

Summer School: Mathematical ecology and evolution (24-31 August 2008)

The Helsinki Summer School on Mathematical Ecology and Evolution invites students and young researchers with strong mathematical background to attend its one-week intense program on the following topics:

Dynamics of structured populations (Odo Diekmann)
 Stochastic branching processes (Peter Jagers) Species coexistence in variable environments (Robin Snyder)
 Adaptive dynamics (Stefan Geritz and Eva Kisdi) Evolutionary epidemiology (Andrea Pugliese)

The school is organised by the Biomathematics Group of the University of Helsinki and will be held between 24 and 31 August 2008 in Turku, Finland.

Deadline for applications is 1 March 2008. There is no registration fee. The school awards 8 ECTS credits.

For more details and application, see <http://mathstat.helsinki.fi/huippu/MathBio2008> Eva Kisdi

kisdi@mappi.helsinki.fi kisdi@mappi.helsinki.fi

Lyon ComparativeGenomics Jan14-25

EUROPEAN COURSE ON COMPARATIVE GENOMICS >From January 14th to 25th , Lyon (FRANCE)

Location: Ecole Normale Supérieure de Lyon (France)

See <http://www.ens-lyon.fr> Students: Master and PhD students from UE institutes. Capacity: 20-30 students

Accommodation: Available rooms in Student Residence at ENS Lyon

Inscription fees: none But formal inscription needed

Program: 2 weeks with 10 topics covering many aspects of comparative genomics For each topic: 2 seminars plus a round table with speakers.

All seminars and round tables are in English.

Organisers: Gabriel Marais Jean-Nicolas Volff

marais@biomserv.univ-lyon1.fr Jean-Nicolas.Volff@ens-lyon.fr

Contact us for inscription or questions

PROGRAM

14/01 - GENE AND GENOME DUPLICATION
 Olivier Jaillon (Génoscope, France) Marc Robinson-Rechavi (Univ. Lausanne, Switzerland)

15/01 - EVOLUTIONARY DYNAMICS OF NON-CODING DNA
 Laurent Duret (Univ. Lyon, France) Manolis Dermitzakis (Cambridge, UK)

16/01 - TRANSPOSABLE ELEMENTS AND GENOME EVOLUTION
 Jean-Nicolas Volff (ENS Lyon, France) Jurgen Brosius (Univ. Muenster, Germany)

17/01 - GENOMICS OF RECOMBINATION AND REPLICATION
 Benjamin Audit (ENS Lyon, France) Gil Mc Vean ? (Oxford, UK)

18/01 - SEX CHROMOSOMES AND SEX DETERMINATION
 Deborah Charlesworth (Univ. Edinburgh, UK) Manfred Schartl (Univ. Wurzburg, Germany)

21/01 - PRIMATE COMPARATIVE GENOMICS AND THE ORIGIN OF HUMANS
 Ed Green (MPI Leipzig, Germany) Arcadi Navarro (Univ. Barcelona, Spain)

22/01 - PLASTICITY OF BACTERIAL GENOMES
Vincent Daubin (Univ. Lyon, France) Eduardo Rocha
(Univ. Paris, France)

23/01 - PHYLOGENOMICS AND ANCESTRAL
GENOME RECONSTRUCTION Emmanuel Douzery
(Univ. Montpellier, France) Hughes Roest-Crolius
(ENS Paris, France)

24/01 - GENOMICS OF ORGANELLES AND EN-
DOSYMBIONTS Nicolas Galtier (Univ. Montpellier,
France) Richard Cordaux (Univ. Poitier, France)

25/01 - ORIGIN OF GENOME ARCHITECTURE
Michael Lynch ? (Univ. Bloomington, USA) M. Lynch
? non confirmed speakers

Gabriel Marais <marais@biomserv.univ-lyon1.fr>

Oeiras Portugal MolEvol Nov19-23

Announcement

GTPB Bioinformatics Training Course:

Molecular Evolution, Phylogenetics and Adaptation

Deadline for applications: NOVEMBER 11TH 2007

We are proud to announce another training course in
Oeiras, from November 19th to November 23rd 2007

Instructors: Hernan Dopazo, Leonardo Arbiza Bioin-
formatics Department Centro de Investigaciones
Principe Felipe, Valencia, ES

Course Description More than 30 years ago, Theodosius
Dobzhansky claimed: "Nothing in Biology makes sense
except in the light of evolution": Currently, the sim-
plest Bioinformatics analysis uses species comparisons
in order to hypothesise the function of a novel bio-
logical sequence: Moreover, in most Molecular Biology
labs, evolutionary and phylogenetic concepts are con-
stantly being used with more or less formality: homol-
ogy, similarity, evolutionary rates, long branch attrac-
tion, rooted and unrooted trees, monophyletic group,
molecular clock, adaptation, lineage effects, neutralism,
cladograms, phylograms, etc: The course covers these
and other major concepts in Evolutionary Biology and
Phylogenetics: Attendees will acquire specific skills in
using the methodology in Comparative and Evolution-
ary Biology problems: The course is designed to be a
mixture of theoretical and practical sessions developed
in 5 days, where both classic and recently introduced
methods for phylogenetic reconstruction will be cov-

ered: As outcome of the more recent developments, the
course dedicates a day to the analysis of adaptation at
a molecular level: Phym1, Phylip, MEGA, TreePuzzle,
MrBayes, PAML, Modeltest-Protest, and the Phyle-
mon web server are some of the software resources
that will be used in the practical sessions: Elementary
knowledge of Biochemistry and Sequence Analysis is
useful though not strictly required.

More information, including an online reg-
istration form is available at [http://-
bioinformatics.igc.gulbenkian.pt/events/26/](http://-bioinformatics.igc.gulbenkian.pt/events/26/) Pedro
Fernandes GTPB Coordinator Inst. Gulbenkian de
Ciência OEIRAS, PT

Pedro Fernandes <pfern@igc.gulbenkian.pt>

Sabah Malaysia Biodiversity

" Cardiff University (UK) and the Sabah Wildlife
Department (Malaysia) are establishing a field cen-
tre in the Kinabatangan floodplain, Sabah, Borneo.
The centre will be a focus for biodiversity research
and training and for field courses in tropical biodi-
versity assessment. It will be open for field courses
from 1st August 2008 and we welcome enquiries as
of now. More information can be seen on the follow-
ing URL: [http://www.cf.ac.uk/biosi/research/sabah/-
index.html](http://www.cf.ac.uk/biosi/research/sabah/-index.html) For details about costs, availability, or any
other question, please contact Dr Benoît Goossens at
goossensbr@cardiff.ac.uk "

Thank you very much.

Best wishes

Benoit

Benoit Goossens, PhD Director Danau Girang Field
Centre, Sabah, Malaysia [http://www.cardiff.ac.uk/-
biosi/research/sabah/index.html](http://www.cardiff.ac.uk/-biosi/research/sabah/index.html) Cardiff University
School of Biosciences Biodiversity and Ecological Pro-
cesses Group Biomedical Sciences Building Museum
Avenue Cardiff CF10 3US, UK

Tel: +44 (0)29 20 875776 Fax: +44 (0)29 20
874305 E-mail: goossensbr@cardiff.ac.uk [http://-
www.cardiff.ac.uk/biosi/research/biodiversity/-
index.html](http://-www.cardiff.ac.uk/biosi/research/biodiversity/-index.html) [http://www.cardiff.ac.uk/biosi/research/-
biodiversity/staff/benoit.html](http://www.cardiff.ac.uk/biosi/research/-biodiversity/staff/benoit.html) >From 6 September
2006, I will be based in Sabah, Malaysia: Institute
for Tropical Biology and Conservation Locked Bag
2073 Universiti Malaysia Sabah 88999 Kota Kinabalu,

Sabah Malaysia Cell phone: 00 60 (0)128364005 Office phone: 00 60 (0) 88 320000 (ext 2378) Secretariat direct line: 00 60 (0) 88 320104 Fax: 00 60 (0) 88 320 291 Email: goossensbr@cardiff.ac.uk (or alternatively: loxodonta_cyclotis2004@yahoo.co.uk)

Benoit Goossens <goossensbr@Cardiff.ac.uk>

SanDiego
PopulationConservationGenomics
Jan12-16

Population and Conservation Genomics Workshop (<http://www.intl-pag.org/16/16-pop-con.html>)

XVI Plant and Animal Genome Conference January 12-16, 2008 Town and Country Convention Centre, San Diego, California <http://www.intl-pag.org/>

A workshop on Population and Conservation Genomics will be held at the 16th Plant and Animal Genome conference. You are invited to attend this Workshop and submit an abstract for oral or poster presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; selection signatures; candidate-gene and genome-wide association studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate change, and transgenic deployment; molecular breeding and gene conservation; etc.

Oral presentations Six oral presentations will be selected from the submitted abstracts. Each of the first six speakers will receive a \$100 discount in their registration fees. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@umb.ca) as an attached Word file no later than October 15th, 2006. You will be notified by October 22nd whether your abstract has been selected for an oral presentation. Authors whose abstracts not selected for oral presentations are highly encouraged to present a poster at the PAG's Population and Conservation Genomics poster session.

Poster presentation If you wish to present a poster, please submit your abstract directly on-line using PAG's web site (<http://www.intl-pag.org/16/16-abstracts.html>). The deadline is October 5, 2007.

Inquiries For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates. Dr. Om P. Rajora, Canada Research Chair in Forest and Conservation Genomics and Biotechnology, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 6C2, Canada. Tel: (506) 458-7477 or (506) 453-4501 Fax: (506) 453-3538 E-mail: Om.Rajora@umb.ca

Om P. Rajora, Ph.D. Professor and Senior Canada Research Chair in Forest and Conservation Genomics and Biotechnology Faculty of Forestry and Environmental Management P.O. Box 44555, 28 Dineen Drive University of New Brunswick Fredericton, NB E3B 6C2 Canada

E-mail: Om.Rajora@umb.ca

Phone: (506) 458-7477 or (506) 458-7475 Fax: (506) 453-3538

orajora@umb.ca

Smithsonian EvolutionaryPhycology
Jul9-23

Short Course in Tropical Phycology July 9 - 23, 2008

This course is designed to orient participants to the biodiversity of tropical marine floras through field and laboratory work. Specifically, it will emphasize the development or enhancement of practical skills essential for identification, characterization and preservation of tropical marine macroalgae (seaweeds). Sampling forays in diverse environments (e.g., mangrove habitats, seagrass beds, coral reefs, sponge communities) on protected and exposed shorelines throughout the Bocas del Toro Archipelago will complement morphological and molecular investigations in the laboratory.

Morphological investigation will emphasize the preparation of specimens for microscopic examination and the interpretation of vegetative and reproductive structures in living material in the light of published observations from the primary literature. Participants will contribute to the development of the Bocas del Toro Biodiversity Inventory (<http://striweb.si.edu/-bocas.database/>) and the development of a bi-lingual field guide to the local marine flora through the production of individual species pages documenting microscopical and field observations (e.g., <http://striweb.si.edu/-bocas.database/details.php?id=3708>). Molecular in-

investigation will emphasize sampling and preservation of material for subsequent analysis of DNA sequences for barcoding, phylogenetic and biogeographical studies. Data derived from this part of the class will contribute to the Bocas del Toro Barcode of Life Project. Most field sites can be sampled by snorkeling (0-10m depths), but optional SCUBA diving opportunities will be available. The course will be taught in English.

See http://striweb.si.edu/taxonomy_training/future_courses/index.html Rachel Collin
<collinr@si.edu>

Smithsonian Shrimp Taxonomy Aug4-16

Short Course in Shrimp Taxonomy

Shrimp Taxonomy (Caridea, Dendrobranchiata and Stenopodidea) August 4 - 16, 2008

The course is aimed at graduate students, post-docs, or professionals who are interested in learning and applying knowledge about the diversity and ecology of one the most abundant and colourful inhabitants of coral reefs. The students participating in this course will:

Learn to identify common shrimps (Caridea, Dendro-

branchiata and Stenopodidea) from the mangroves and shallow coral reefs of the Bocas del Toro region, many of which occur in the wider Caribbean region. Learn general biological and ecological characteristics of the group. Gain hands-on ecological and taxonomic experience with tropical marine shrimp. Learn ecological survey and sampling techniques, as well as the vital components of modern taxonomy (photography, DNA extraction). This course seeks to give the participant the necessary tools to continue studies on the taxonomy and /or ecology of shrimps. The course will last 12 days, and is primarily targeted at taxonomic training, including the characteristics and identification of the various shrimp families and genera at Bocas del Toro, many of which will be identified to species. The main focus will be on modern taxonomy, using field collecting, morphological work, photography and genetic relationships. Other topics to be covered are current classification, the phylogenetic framework of Decapoda, ecology, as well as lectures on aquaculture, commercial fishing and the aquarium trade. Also included will be an independent project either of the participants choice or in consultation with the instructors, with students presenting their work on the final day. Daily activities will include: morning and afternoon lectures, a field trip, lab work, and discussion sections or talks.

See http://striweb.si.edu/taxonomy_training/future_courses/index.html Rachel Collin
<collinr@si.edu>

Instructions

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

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain

old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

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

Afterward

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