
E v o l D i r

February 1, 2011

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

Foreword

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

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

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



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Conferences

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Almada Portugal PrimateDiversity Sep14-17

âDiversity within Primatologyâ

IV CONGRESS OF THE EUROPEAN FEDERATION FOR PRIMATOLOGY

Invitation

You are cordially invited to attend the fourth congress of the European Federation for Primatology (EFP).

This congress will be hosted by the Portuguese Primatological Association (APP), at Almada, from 14th â 17th September 2011.

This meeting will coincide with the 3rd Iberian Prima-

tological Conference, which gathers together the 5th Portuguese and the 9th Spanish Primatological Conferences.

Diversity will be the main theme of the congress.

By diversity we mean diversity of research topics, diversity of approaches in primatology, diversity of species or diversity between individuals.

This conference aims to build strong scientific bridges between European primatologists facilitating the establishment of network contacts and hopefully engaging European scientists in co-operative research activities.

We are looking forward to see you in Almada!

Date

14th - 17th September 2011 (from Wednesday to Saturday).

The proposed format will allow congress participants to

stay over the weekend for sight-seeing and social events.

Venue

The conference will take place in the library building that belongs to the Câmara Municipal de Almada (Almada, Portugal).

Almada is a small city located 15 minutes away from the South of Lisbon (across the bridge over Tagus River).

For more specific information regarding the access to Almada and Almada surroundings please see

<http://www.almadadigital.pt/portal/page/portal/-ACDV2> Conference official language

English is the conference language.

Abstracts for both oral and poster communications must be submitted in English and all presentations must be given in English.

More information will be provided soon!

For more informations, please go to: <http://apprimatologia.com/Actividades/-CEP2011.aspx> Maria Joana Ferreira da Silva <silvamaría.ju@hotmail.com>

Auburn
Southeastern Ecology Evolution
Mar25-27

****Please Distribute Widely****

CALL FOR ABSTRACTS

SEEC 2011 SOUTHEASTERN ECOLOGY & EVOLUTION CONFERENCE Auburn University AUBURN, ALABAMA, USA 25-27 MARCH 2011

ABSTRACT SUBMITTAL DEADLINE: 11 MARCH 2011

We invite all undergraduate, graduate, and post-doctoral researchers in ecology, evolution, environmental sciences, limnology, forestry, fisheries, marine sciences, and other related fields to submit abstracts for either oral or poster presentations at the 8th Annual Southeastern Ecology and Evolution Conference (SEEC) to be held March 25-27, 2011, at the Auburn University in Auburn, Alabama. Each year SEEC is hosted by a different southeastern university and is organized by and geared toward students. SEEC is a professional meeting intended for early-career researchers in ecology, evolution, and related fields to present their

research to their colleagues in a comfortable, fun, and relaxed atmosphere. Typically 200-300 students give or attend formal presentations and find SEEC to be a valuable forum for sharing research and connecting with other young researchers in the region. This event is designed to encourage new friendships within our field and to share newly developed research ideas for feedback. While we expect most SEEC participants to be from the Southeast, we encourage and welcome all interested individuals to submit abstracts and/or attend.

SEEC 2011 homepage: <http://gump.auburn.edu/-seec2011/> Early registration for this year's conference will be \$25.00 before February 11th and covers meeting attendance, two continental breakfasts, dinner/social Saturday evening, snacks, coffee, and a t-shirt! After February 11th the registration fee will be \$35.00 up to the day of the conference. Awards for both the best oral and poster presentations will be given. There will also be tables from sponsors, including publishers, supply companies, and other organizations (see our web site for a complete list of sponsors). The abstract submission deadline is March 11, 2011, and may be completed at the following web site:

<http://fs22.formsite.com/SEEC2011/form1/-index.html>

We are pleased to announce that Sunday's keynote speaker is Dr. Alan Wilson, who organized the first Southeastern Ecology & Evolution Conference in 2004. Dr. Alan Wilson received his Ph.D. in Applied Biology from the Georgia Institute of Technology in 2006. After spending a year as a research investigator at the Cooperative Institute for Limnology and Ecosystems Research (CILER) jointly housed at the University of Michigan and NOAA's Great Lakes Environmental Research Laboratory (GLERL), Alan joined the faculty at Auburn University (AU) as a tenure-track Assistant Professor in 2007. He is jointly appointed in the Departments of Fisheries and Allied Aquacultures & Biological Sciences. Alan is a community ecologist whose research interests revolve around the ecological mechanisms mediating harmful freshwater algal blooms. He is particularly interested in understanding how within-species genetic and phenotypic variation influences community structure and ecosystem function. Alan is also initiating projects aimed at understanding how toxic algal blooms influence human and livestock health. You can learn more about Alan's research at <http://wilsonlab.com/> Auburn University is located in downtown Auburn, Alabama and is convenient to numerous hotels, restaurants, and bars (to see what's happening in Auburn, check out these sites www.oanews.com, www.thecornernews.com and www.auburnalabama.org). Registration, abstract

submission, travel/lodging information, and contact information may all be found at the SEEC web site:

<http://gump.auburn.edu/seec2011> Please help us spread the word about SEEC by forwarding this message to any students, colleagues, departments, colleges, or schools that you think might be interested in attending SEEC this year! SEEC flyers are also available on the SEEC homepage and we strongly encourage posting these in conspicuous locations.

We look forward to seeing you at Auburn University for the 8th Annual Southeastern Ecology and Evolution Conference this March!

SEEC Organizing Committee

2011seec@gmail.com

Chicago PlantEvolution Apr16

Chicago Plant Science Symposium 2011 *The Field Museum*

In the 1990s, Field Museum hosted an annual Plant Science Symposium, highlighting the cutting edge of research in plant evolution, ecology, and conservation, and bringing together the plant science community of the greater Chicago area. This spring we will revive the tradition, with a one-day event on *Saturday, April 16, 2011* consisting of seven invited speakers. The program will include lunch and a post-conference mixer. Best of all, registration will be free!

The theme of the symposium is *Species: From Concepts to Conservation*. *The species is a fundamental unit of research in biology, and continues to promote inquiry (and controversy) across a range of disciplines. We will invite a diverse set of speakers who are united by the common thread that their research grapples with the nature of plant species. The talks will span evolution, ecology, and conservation, and include perspectives from molecular, morphological, and functional data.

A more detailed announcement will follow when the program of speakers is complete.

Questions: Contact the co-organizers, Patrick Herendeen (pherendeen@chicagobotanic.org) or Rick Ree (rree@fieldmuseum.org)

We look forward to seeing you in April!

Rick and Pat

Richard Ree <rree@fieldmuseum.org>

Edinburgh EvolTransposableElements Apr1

Meeting on Transposable Elements, Edinburgh, April 2011

A one-day meeting on "Transposable elements: their functional and evolutionary biology" will be held at Surgeons' Hall, Edinburgh, UK on April, 1, 2011. This is the annual Spring Meeting of the Genetics Society of the UK, and details of meeting arrangements and registration can be found on the Genetics Society website (<http://www.genetics.org.uk/>). Laurence Hurst will give the Genetics Society Medal Lecture for 2010 at this meeting. Other speakers are Mark Batzer, Casey Bergman, Tom Bureau, Hugo Dooner, Tom Eickbush, Adam Eyre-Walker, and Zsuzsanna Izsvak.

Brian Charlesworth <brian.charlesworth@ed.ac.uk>

Fiskebackskil Sweden SyngnathidPhylogenetics Apr25-29

Dear Evoldir members,

The deadline for registration and abstract submission for SYNG BIO is rapidly approaching.

Syngnathid Biology International Symposium. Fiskebäckskil, Sweden April 25-29th, 2011

The goal of this symposium is to bring together students and scientific researchers working on various aspects of pipefish, seahorse and seadragon biology. Topics include physiology, phylogenetics, phylogeography, sexual selection, behavior, conservation and management.

Invited speakers: Ingrid Ahnesjö, Uppsala University, Sweden Adam Jones, Texas A&M University, USA Charlotta Kvarnemo, Gothenburg University, Sweden Nuno Monteiro, Centre for Biodiversity and Genetic Resources, Portugal Tony Wilson, Zoologisches Museum Universität Zürich-Irchel, Switzerland

Deadline for abstract submission and registra-

tion: January 15th, 2011 To register, please send a 250 word abstract with affiliations to kenyon.mobley@emg.umu.se and put "your-name_SYNG BIO registration" in the subject line. Please indicate whether you prefer an oral or poster presentation.

Travel Grants for Nordic Marine Academy Member Institutions: Are you student/postdoctoral fellow from a Nordic Marine Academy member institution? (see <http://nma.uib.no/nma/default.asp?k=13&idw> for more information) If so, you may be eligible for reimbursement of travel costs of up to 3500 SEK (380 Euros) and a reduced conference fee of 3620 SEK.

More information: For more details of the conference, please see <http://syngbio.mezoka.com/>

—

Kenyon Mobley, Ph.D Department of Ecology and Environmental Science Umeå University Linnaeus Väg 6 Umeå, Sweden 90 187

+46 (0) 907869535 My research: <http://tiny.cc/z9xw0>
Announcing: SYNG BIO Syngnathid Biology International Symposium Fiskebäckskil, Sweden April 25-29th 2011

[http://syngbio\(dot\)mezoka\(dot\)com/](http://syngbio(dot)mezoka(dot)com/)

Registration and abstract deadline: Jan 15, 2011

[kenyon.mobley <kenyon.mobley@emg.umu.se>](mailto:kenyon.mobley@emg.umu.se)

GhentU ComparativePlantGenomics Apr11-12

Dear,

the first international Conference on *Comparative and Regulatory Genomics in Plants* will be held at VIB - Ghent University, Belgium April 11-12, 2011.

This conference will give an overview of the most recent developments in plant genomics and will discuss the integration of experimental high-throughput data with computational approaches to study gene functions, genome organization and transcriptional regulation. A panel of international invited speakers includes experts in the field of plant next-gen genome sequencing, genome evolution, comparative transcriptomics, ChIP profiling and plant regulatory networks.

More information including invited speakers is available

here: http://bioinformatics.psb.ugent.be/crg_event/-conference/about Best regards,

the scientific committee, Klaas Vandepoele

/apologies for double postings/
—

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VIB Department of Plant Systems Biology, Ghent University Technologiepark 927, 9052 Gent, Belgium E-mail: Klaas.Vandepoele@psb.vib-ugent.be
Website: <http://bioinformatics.psb.ugent.be/>
PLAZA, a resource for Plant Comparative Genomics <http://bioinformatics.psb.ugent.be/plaza/>
klaas.vandepoele@psb.ugent.be

KansasCity ArthropodGenomics Jun9-12

Arthropod Genomics 2011: Exploring Diversity, Relating Similarity 5th ANNUAL ARTHROPOD GENOMICS SYMPOSIUM June 9 12, 2011, in Kansas City, USA <http://www.k-state.edu/agc/-symposium.shtml>

Please save the dates and plan to attend the 5th Annual Arthropod Genomics Symposium, Exploring Diversity, Relating Similarity, June 9 to 12, 2011, in Kansas City at the Marriott hotel on the beautiful Country Club Plaza. Registration will open in January.

KEYNOTE SPEAKER: Marc A.T. Muskavitch DeLuca Professor of Biology Boston College Advancing vector genetics through the power of vector genomics

FEATURED SPEAKERS: Gregor Bucher Department of Developmental Biology Georg-August University, Göttingen, Germany Beetle: Genome wide RNAi screen for embryonic and metamorphic development in *Tribolium*

Owain Edwards Invertebrate Genomics and Evolution CSIRO Ecosystem Sciences Perth, Australia DNA methylation and phenotypic plasticity in the pea aphid, *Acyrtosiphon pisum*

Cassandra Extavour Dept of Organismic and Evolutionary Biology Harvard University Overcoming the gene discovery bottleneck for arthropod evo-devo: Creating de novo developmental transcriptomes

Toni Gabaldón Center for Genomic Regulation

(CRG) Barcelona, Spain Arthropod genomes as seen through the lens of evolution

Cheryl Y. Hayashi Department of Biology University of California, Riverside Spider silks: Functional and evolutionary insights into high-performance materials

Mary Ann McDowell Biological Sciences University of Notre Dame A tale of two sand fly genomes: *Phlebotomus papatasi* and *Lutzomyia longipalpis*

Pedro L. Oliveira Instituto de Bioquímica Molecular e Biotecnologia Universidade Federal do Rio de Janeiro and Instituto Nacional de Ciência e Tecnologia em Entomologia Molecular Rio de Janeiro, Brazil An insight into the transcriptome of the digestive tract of the blood sucking bug, *Rhodnius prolixus*

Michael Pfrender Biological Sciences University of Notre Dame Genome structure, functional diversification, and Genome X environment interactions in *Daphnia*

Dorith Rotenberg Plant Pathology Kansas State University A genomics-based approach to identify insect molecular components associated with vector competency in *Frankliniella occidentalis*, the primary thrips vector of Tomato spotted wilt virus

Hervé Seitz Laboratoire de Biologie Moléculaire Eucaryote CNRS/Université Paul-Sabatier Toulouse, France Genomics of small RNAs in insects

Alexandra C. Wilson Department of Biology University of Miami Genomic insights into nitrogen upgrading and recycling in the aphid [*Buchnera*] symbiosis

Guojie Zhang Beijing Genome Institute Shenzhen, China BGI's recent activity on insect genomic research

WORKSHOPS A pre-symposium workshop, Genome Project 101, by Scott Cain, OICR, and Dave Clements, Emory University; Thursday afternoon, June 9, 4:00-6:00 p.m.

Comparative genomics with the generic synteny browser (GBrowse_syn): Configuration and display of various co-linearity data types, by Sheldon McKay, iPlant, will be presented Saturday morning, June 11.

ORGANISM MEETINGS Friday afternoon/evening, June 10 Meet with scientists who are also working with your organism of interest during small group gatherings. If you are interested in coordinating topics and leading discussions as a group leader, please email dmerrill@ksu.edu. Additional information will be posted to the conference website as details are finalized.

POSTER SESSIONS: There will be two poster sessions.

A few platform presentations will be chosen from submitted poster abstracts. The deadline for submission of poster abstracts is May 18.

TENTATIVE SYMPOSIUM PROGRAM Thursday afternoon, June 9 Pre-Symposium Workshop Thursday evening, June 9 Keynote presentation and welcome reception Friday & Saturday, June 10 and 11 - Platform and Poster sessions Friday afternoon/evening, June 10 Organism meetings Saturday morning Gbrowse_syn Workshop Sunday morning, June 12 Roundtable discussion focusing on I5k with Kevin J. Hackett, USDA, and the ArthropodBase Consortium. All are invited to attend!

Noon, Sunday, June 12 - Activities will conclude.

ROUNDTABLE DISCUSSION: Participate in a roundtable discussion with the ArthropodBase Consortium regarding the generation of integrated arthropod genome databases and tools for genome projects. Discussion will focus on I5k, led by Kevin J. Hackett, USDA. Symposium attendees are encouraged to attend.

PRE-CONFERENCE MEETINGS: -International Tribolium Meeting, 6/8 and 6/9. -International Aphid Genomics Consortium, 6/9.

REGISTRATION: Registration will be open in January. Monitor our website, www.k-state.edu/agc/-symposium.shtml and watch for the next announcement.

— / —

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>

London EcolGenetics Apr19-21

The abstract deadline for Ecological Genetics Group (EGG) 2011 is fast approaching.

<http://www.ecologicalgeneticsgroup.org.uk/eco/> Conference Dates: 19th-21st April 2011

Abstract deadline: 31st January 2011

This year's plenary speakers are evolutionary biologists Loren Rieseberg (University of British Columbia) and Roger Butlin (University of Sheffield).

Venues: Natural History Museum (South Kensington,

London) and Royal Foundation of St Katherine Conference Centre (Limehouse, London)

Talk or poster titles can be submitted with registration, and abstracts must be submitted at the conference website by 31 Jan 2011. <http://www.ecologicalgeneticsgroup.org.uk/eco/> Event Package Option(s) 1. Day registration only £170.00 2. Registration plus two nights single en suite room B&B £270.00 [Only 28 places available at £50 per night] 3. Registration plus two nights shared (double) en suite room B&B £250.00 [Only 16 places available at £40 per night]

Organisers: Steve Ansell (Natural History Museum) and Richard Buggs (Queen Mary, University of London)

s.ansell@nhm.ac.uk r.buggs@qmul.ac.uk

<http://www.ecologicalgeneticsgroup.org.uk/eco/> – Richard Buggs MA, DPhil NERC Post-doctoral Research Fellow School of Biological and Chemical Sciences Queen Mary, University of London London E1 4NS United Kingdom

email: r.buggs@qmul.ac.uk website: <http://www.sbcs.qmul.ac.uk/staff/richardbuggs.html> office: +44(0)207 882 3058 mobile: +44(0)772 992 0401

r.buggs@qmul.ac.uk

London Group Selection Jan25

I would like to draw to your attention to the following conference, <http://londonevolutionarynetwork.wordpress.com/>, held in London on the 25th of January by Pete Richerson on cultural group selection. Thank you very much, for your help,

Best regards,

Alexandra Alvergne, PhD. Human Evolutionary Ecology Group Department of Anthropology University College London 14 Taviton Street London WC1H 0BW United Kingdom +44(0)2076798781

http://www.ucl.ac.uk/anthropology/staff/a_alvergne/index London Evolutionary Research Network/Treasurer <http://www.londonevolution.net/> Alex Alvergne <a.alvergne@ucl.ac.uk>

London Macroevolutionary Research Mar9

We warmly invite you to a CEE Symposium on “Integrating Ecology into Macroevolutionary Research” to be held at the Zoological Society of London meeting rooms on 9th March (9am - 6pm).

Talks will include:

Luke Harmon (University of Idaho) New frontiers for the comparative analysis of adaptive radiations

Gavin Thomas (Bristol University) Can models of trait evolution tell us anything about the evolutionary process?

Sam Turvey (ZSL) What can the recent fossil record actually tell us about past and present human-caused extinction?

James Rosindell (Leeds University) The macroevolutionary predictions of ecological neutral theory

Lynsey McInnes (Imperial College) Evolution and ecology of the species:area relationship in mammals

Anjali Goswami (University College London) TBA

Andy Purvis (Imperial College) Species ecology and macroevolutionary dynamics of Cenozoic planktonic foraminifera

Hélène Morlon (CNRS, Paris) Modelling diversity dynamics using time backwards

Kanchon Dasmahapatra (University College London) Phylogenetic and mimetic relationships in Neotropical butterflies

Tim Barraclough (Imperial College) Are there evolutionarily significant units of diversity above the level of species?

We will have eight poster slots available on a first come first serve basis. Please email us to reserve a slot.

To register for the symposium and to receive further updates on the schedule for the day please email lynsey.mcinnnes01@imperial.ac.uk.

Attendance will cost £5.00, payable on the day, to cover refreshments.

Best wishes,

Lynsey McInnes & Ally Phillimore

“McInnes, Lynsey” <lynsey.mcinnnes01@imperial.ac.uk> Charlotte Faurie & Michel Raymond

HBES 2011 local organizers

– Institute of Evolutionary Sciences, Montpellier, France

Michel Raymond <michel.raymond@univ-montp2.fr>

Marseilles 15th EBM FirstDeadline

Dear all

The first dead line for the 15th Evolutionary Biology Meeting at Marseilles is the 01/31/2011 more information: <http://sites.univ-provence.fr/evol-cgr/> best regards Pierre Pontarotti

Pierre PONTAROTTI <Pierre.Pontarotti@univ-provence.fr>

Montpellier HumanEvolution Jun29-Jul3

Human Behaviour & Evolution Society (HBES), 2011. June, 29th V July, 3rd 2011. Montpellier, France.

The HBES Annual Meeting regularly attracts a diverse group of researchers, including anthropologists, evolutionary biologists, economists, legal scholars, psychologists, primatologists, political scientists, behavioral ecologists, physicians, and humanities scholars. This years lineup of speakers reflects this diversity. The conference Keynote Address will be presented by Randy Nesse, the co-founder of darwinian medicine. Our Plenary Speakers include economist Samuel Bowles, anthropologist and primatologist Sarah Hrdy; linguist Jean-Marie Hombert, biologist Tim Clutton-Brock, anthropologist Frank Marlowe, developmental psychologist Andrew Whiten. HBES membership is worldwide. In addition to the North American universities that have traditionally hosted HBES, recent meetings have been held in London, Berlin, and Kyoto. Abstract submission will open in the near future as well as Registration. Please visit:

<http://www.hbes2011.univ-montp2.fr> The web site will be updated periodically with additional information. We are honored to be hosting the 23rd Annual HBES Meetings in Montpellier, and invite scholars from across the disciplines to attend. We look forward to seeing you in Montpellier this summer.

Best,

OhioU Athens Bioinformatics May2-4

GLBIO 2011 - Call for Abstracts

The 6th Annual Great Lakes Bioinformatics Conference (GLBIO), the newest official conference of the International Society for Computational Biology (ISCB), is pleased to announce the call for abstracts for 2011

GLBIO 2011, formerly known as OCCBIO, will be hosted by Ohio University in Athens, Ohio on May 2-4, 2011

Oral presentations will be selected from the submitted abstracts. To submit your abstract, please go to http://www.ohiobioinformaticsconsortium.org/-glbio/2011/call_for_abstracts.shtml Oral presentations will be selected from the submitted abstracts. To submit your abstract, please click here.

As in past years, this conference will provide an interdisciplinary forum for discussing approaches, research findings, and educational experiences regarding computational investigations of biological problems.

An important goal of the conference continues to be fostering long-term collaborative relationships among informatics and life sciences researchers and educators from academia, government and industry, spanning Ohio and adjacent states.

This meeting is not only for experts in bioinformatics, but also for faculty, students and staff who make substantial use of bioinformatics tools in their work, or would like to expand such use.

Please note the following conference deadlines: Feb. 21, 2011: Deadline for Submission of Abstracts for Oral Presentations March 21, 2011: Authors Notified of Abstract Acceptance March 28, 2011: Deadline for Submission of Abstracts for Poster Presentations April 4, 2011: Early Bird Registration Ends May 2-4, 2011: Conference Begins.

Online registration is now available. Visit glbio.org or

click here to register.

Conference Chairs: Lonnie Welch, Ohio University
Terry Lewis, OARnet

Program Chairs: Jundong Liu, Ohio University
Robert Colvin, Ohio University
Jim Cavalcoti, University of Michigan

Sponsors: ISCB The Ohio University OARnet Ohio Supercomputer Center

Quick Links

GLBIO Website <http://www.ohiobioinformaticsconsortium.org/occbio/-GL2011/>
Call for Abstracts http://www.ohiobioinformaticsconsortium.org/glbio/2011/-call_for_abstracts.shtml
Sponsor Information <http://www.ohiobioinformaticsconsortium.org/occbio/-GL2011/sponsorship.shtml>
Registration http://www.iscb.org/cms_addon/conferences/glbio2011/-register/index.php
Keynote Speakers

Michael Becich, Director of the Center for Pathology Informatics, University of Pittsburgh Medical Center

Elodie Ghedin, Asst. Professor of Computational Biology, University of Pittsburgh

Al Hero, R. Jamison and Betty Williams Professor of Engineering, University of Michigan

Richard Lenski, John Hannah Professor of Microbial Ecology, Michigan State University

GLBIO is also seeking proposals for Invited Sessions, Panel Discussions, and Tutorials - please go to <http://glbio.org> for more information.

Ohio Supercomputer Center | 1224 Kinnear Road | Columbus | OH | 43212

Kathryn Kelley <terry@osc.edu>

PennsylvaniaStateU MolEvol Mar19-20

Penn State SMBE Symposium on Molecular and Genomic Evolution

March 19-20, 2011, University Park, Pennsylvania

Masatoshi Nei just turned 80 this month. To celebrate his contributions to evolutionary biology and to promote the development of molecular and genomic evolution, Penn State University (PSU) and the Society for

Molecular Biology and Evolution (SMBE) jointly sponsor this symposium, to be held in PSU on March 19-20, 2011. The symposium will begin with a welcome reception on the evening of March 18. The scientific program starts on the morning of March 19 and ends at the noon of March 20. It is composed of 6 major addresses, 15 slightly shorter talks presented by Masatoshi's former associates and current PSU colleagues, and a poster session. There will also be a banquet on the evening of March 19. The symposium is open to all and there is no registration fee. However, you must register to participate in all events and there is a cap of the number of registrants.

To view other information about the symposium and to register, please visit

<https://sites.google.com/site/smb2011psu/Home>

Organizers:

Jianzhi George Zhang

Professor of Ecology and Evolutionary Biology

University of Michigan

Email: jianzhi@umich.edu

Blair Hedges Professor of Biology Pennsylvania State University Email: sbh1@psu.edu

jianzhi@umich.edu

Switzerland Behavioural Evolution Apr17-20

You are warmly invited to attend this forthcoming conference. Please circulate this invitation to anyone you know who may be interested.

Conference on Social Decision Making: Bridging Economics and Evolutionary Biology <http://www.evolveingeconomics.com/> Date 17 April-20 April 2011

Location Monte Verita, Ascona, Switzerland.

Purpose The fields of evolutionary biology and economics have similar foundations, both attempting to explain individual decisions based on the costs and benefits of particular actions. However, the two fields also rely upon very different working assumptions about how and why individuals take the actions that they do. Our conference sets out to create an environment that is conducive to dialogue, mutual learning, and the de-

velopment of new collaborations between the two fields by focusing on an area of mutual interest: decision-making in social interactions. Sessions will pair leading economists and evolutionary biologists to discuss specific topic so as to explore the common interests between the fields.

Confirmed Speakers Professor Ken Binmore, University College London Professor Colin Camerer, California Institute of Technology Professor Alan Grafen, Oxford University Professor Arnon Lotem, Tel Aviv University. Professor John McNamara, University of Bristol Professor Paul Seabright, Université des Sciences Sociales de Toulouse Professor David W. Stephens, University of Minnesota Professor Stuart A. West, Oxford University Professor Peyton Young, Oxford University

Abstracts We are inviting abstracts for posters or contributed talks. When registering, please indicate whether you wish to present, and include a title and abstract.

Conference fees Conference fees include registration, welcome drink, accommodation for three nights in Monte Verità and full board (breakfast, lunch and dinner).

Students: 400CHF for sharing a twin room, 440CHF for a single room. **Post-docs/researchers:** 450CHF for sharing a twin room, 490CHF for a single room. **Professors:** 500CHF for sharing a twin room, 550CHF for a single room.

Funding At present we have small funds to help junior scientists attend. We are trying to solicit extra funding. Please see the registration page for more details.

Registration Registration and payment deadline: 10th February 2011. Please visit the registration page on the conference website: <http://www.evolvingeconomics.com/> There are only 60 places for delegates to attend this conference, so please register promptly to secure your place.

Further information Web: <http://www.evolvingeconomics.com/>
E-mail: info@evolvingeconomics.com

Organising Committee Claire El Mouden, Oxford University Lorenz Goette, University of Lausanne Laurent Lehmann, University of Neuchâtel Daniel J. Rankin, University of Zürich Stuart A. West, Oxford University

Claire El Mouden, Department of Zoology, South Parks Road, Oxford University, OX1 3PS

mail to: Christ Church, Oxford, OX1 1DP

Claire El Mouden <claire.elmouden@chch.ox.ac.uk>

Tuebingen ESEB2011 Aug20-25 RegistrationOpen

ESEB 2011 - REGISTRATION AND ABSTRACT SUBMISSION

www.eseb2011.de Registration and abstract submission for the 13th Congress of the European Society for Evolutionary Biology Tuebingen, Germany, 20-25 August 2011 opens on 10th January 2011. You are invited to submit your contribution to one of 29 topical symposia or to the "general" sessions.

All relevant information can be found online.

We recommend that you register and book your accommodation now and submit your abstract later (but in time before the 28 February 2011 deadline). This is because the number of attendants is limited to 1300 and Tuebingen is a small town when it comes to accommodation ...

Online registration, online abstract submission and accommodation booking are three independent processes (handled by different people). This gives you a bit more to do, but saves costs on our side resulting in a lower registration. We assume the latter is in your interest.

You are not an ESEB member? Save money by joining ESEB online at <http://www.eseb.org/> A one-year ESEB membership (incl. online Journal of Evolutionary Biology) + conference member fee is cheaper than the registration fee for non-members!

Looking forward to seeing you in Tuebingen!

Nico Michiels

Local Chairman (for the university of Tuebingen and for the local organizing and scientific committee)

ESEB 2011 enquiries:

Registration and abstract submission -> eseb2011@interplan.de (Ms Katrin Lehmann) Accommodation -> mail@tuebingen-info.de, but first check <http://www.eseb2011.de/accommodation.htm> Programme and local logistics -> nico.michiels@uni-tuebingen.de

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www.eseb2011.de www.evoeco.uni-tuebingen.de
www.eve.uni-tuebingen.de Nico Michiels
 <nico.michiels@uni-tuebingen.de>

Tuebingen ESEB Adaptation Aug20-25 CallAbstracts

:: ESEB 2011 “Environment, G-matrices and adaptation” - Call for abstracts* ::

We invite abstract submissions for oral and poster presentations in the symposium on “Environment, G-matrices and Adaptation” at the ESEB 2011 Meeting (European Society for Evolutionary Biology meeting, Tuebingen, Germany 20-25 August 2011).

ABSTRACTS submission is now open at: http://www.eseb2011.de/call_for_abstracts.htm
 DEADLINE for abstract submission is the 28TH OF FEBRUARY 2011.

:: The symposium ::

The G-matrix is one of the most fundamental tools for retrospective and prospective analyses of selection and thus adaptation. While it is well established that the environment influences the genetic basis of phenotype, the consequences of this for adaptation are little understood. Rapid advances in genomic methods are also changing the definition of genetic architecture and offer exciting possibilities for understanding the dynamics of adaptation. This symposium aims to examine emerging conceptual, statistical and empirical approaches to elucidating the consequences of environmental influence on genetic architecture for evolutionary dynamics and adaptation. Topics will connect genetic architecture and patterns of gene expression to fitness, and the processes of adaptation. This will necessarily include classic studies of the phenotype - genotype map (P, G and E-matrices), and novel methods to link adaptation, phenotypic and genetic architecture to genomic data.

:: Invited speakers :: We are honoured to have

Dr. Steve Chenoweth (School of Biological Science, University of Queensland, Australia) and Professor Johanna Schmitt (Department of Ecology and Evolutionary Biology, Brown University, USA)

as invited speakers. Their expertise and experience in

driving conceptual, statistical and empirical advances in understand G x E frames this symposium.

:: Organizers :: Dr. Matt Robinson, Department of Animal and Plant Sciences, University of Sheffield, UK (matthew.r.robinson@sheffield.ac.uk)
 Dr. Andrew Beckerman, Department of Animal and Plant Sciences, University of Sheffield, UK (a.beckerman@sheffield.ac.uk)

Contact us for further information. Conference details are available here (<http://www.eseb2011.de/-index.htm>). Do not forget to register before submitting your abstract.

a.beckerman@sheffield.ac.uk

Tuebingen ESEB Causes Epistasis Aug20-25 CallAbstracts

We would like to invite submissions of abstracts for oral and poster presentations for the symposium “CAUSES OF EPISTASIS”, to be held at the upcoming Congress of the European Society of Evolutionary Biology (20-25 August 2011, Tuebingen, Germany).

SYMPOSIUM DESCRIPTION: Epistasis fundamentally affects all evolutionary processes, including speciation, the rate and direction of adaptation and the origin and maintenance of sex. Studies of epistasis have long had an exclusive focus on its consequences. This is changing now, since recent studies both from theoreticians and experimentalists have begun to address also the causes of epistasis.

ABSTRACT SUBMISSION: http://www.eseb2011.de/call_for_abstracts.htm

DEADLINE: 28 February, 2011

MEETING WEBSITE: <http://www.eseb2011.de/> INVITED SPEAKERS:

Roy Kishony, Harvard Medical School

(<http://kishony.med.harvard.edu/>)

Daniel Weinreich, Brown University

(<http://www.brown.edu/Departments/EEB/-weinreich/weinreichindex.htm>)

SYMPOSIUM ORGANIZERS:

Arjan de Visser, Laboratory of Genetics, Wageningen University, The Netherlands. Arjan.deVisser@wur.nl;
<http://www.gen.wur.nl/UK/Staff/Scientific+Staff/>

Arjan+de+Visser Santiago Elena, Instituto de Biología Molecular y Celular de Plantas (CSIC-UPV), Valencia, Spain. sfelena@ibmcp.upv.es; <http://bioxeon.ibmcp.upv.es/EvolSysVir/contact.html>
 “Visser, Arjan de” <Arjan.deVisser@wur.nl>

Tuebingen ESEB CytoplasmicEvol Aug20-25 CallAbstracts

Dear all, We would like to invite submissions of abstracts for oral and poster presentations for the symposium, “Evolution Outside the Nucleus” to be held at the upcoming Congress of the European Society of Evolutionary Biology (20-25 August 2011, Tuebingen, Germany).

SYMPOSIUM DESCRIPTION: The primary defining feature of eukaryotes is the existence of intracellular organelles containing genomes that have very different modes of inheritance. Our goal is to use this symposium to explore what these various cytoplasmic genomes have in common, how they differ, and how they interact with the nuclear genome. It is our hope that the peculiarities of organelle biology can be used to gather fundamental insights into key questions in evolutionary biology, from the maintenance of sex and recombination to sexual conflict and speciation to the evolution of genome architecture.

ABSTRACT SUBMISSION: http://www.eseb2011.de/call_for_abstracts.htm)

DEADLINE: 28 February, 2011 **MEETING WEBSITE:** <http://www.eseb2011.de/> **INVITED SPEAKERS:** Ronald Burton, Scripps Institution of Oceanography, UC-San Diego (<http://web.mac.com/ronburton1/iWeb/Site/Home.html>) David McCauley, Vanderbilt University (<http://www.vanderbilt.edu/biosci/mccauleylab>)

SYMPOSIUM ORGANIZERS: Maurine Neiman, Department of Biology, University of Iowa, Iowa City, IA, USA. maurine-neiman@uiowa.edu; <http://www.biology.uiowa.edu/neiman/> Dan Sloan, Department of Biology, University of Virginia, Charlottesville, VA, USA. dbs4a@virginia.edu; <http://people.virginia.edu/~drt3b/sloanDan.php> Douglas R. Taylor, Department of Biology, University of Virginia, Charlottesville, VA, USA. dougtaylor@virginia.edu; <http://people.virginia.edu/~drt3b/index.php> maurine-neiman@uiowa.edu

Tuebingen ESEB EvolutionOfLabor Aug20-25 CallAbstracts

Dear All,

we invite abstract submissions for oral and poster presentations in the symposium on the Evolution of Division of Labor at the ESEB meeting 2011 (European Society for Evolutionary Biology meeting, Tuebingen 20-25, August 2011, Germany).

ABSTRACT submission is now open at: http://www.eseb2011.de/call_for_abstracts.htm **DEADLINE** for abstract submission is the 28TH OF FEBRUARY.

THE SYMPOSIUM:

Division of labour exists between colony members as well as between iterated units of already highly integrated organisms. By bringing together researchers working on a wide variety of systems we wish to identify underlying commonalities and systems specific differences in order to understand its role in major transitions of evolution and in the evolution of organismal complexity.

INVITED SPEAKERS:

Francis Ratnieks (University of Sussex) website: <http://www.sussex.ac.uk/lasi/> Richard Michod (University of Arizona) websiste: <http://eebweb.arizona.edu/michod/> **ORGANIZERS:**

Claus Rueffler, University of Vienna Email: claus.rueffler@univie.ac.at website: <http://www.mabs.at/rueffler/index.html> Sergey Gavrillets, University of Tennessee, Knoxville Email: gavrila@tiem.utk.edu websiste: <http://www.tiem.utk.edu/~gavrila/> For further information on the symposium feel free to contact the organizers. For logistic details on the conference refer to the ESEB webpage (<http://www.eseb2011.de/index.htm>).

Claus Rueffler, Ph.D. University of Vienna Institute of Mathematics Nordbergstrasse 15 1090 Vienna, Austria room C 304 A tel.: +43 (0)1 4277 50773

claus.rueffler@univie.ac.at

Tuebingen ESEB Evolution Techniques Aug20-25 CallAbstracts

ESEB.2011 Novel techniques.Symposium Call Abstracts

European Society for Evolutionary Biology meeting, Tübingen, Germany 20th-25th August, 2011

Call for abstracts for symposium 17 "Novel techniques in behavioral ecology"

Novel techniques create exciting new ways to investigate the interface between behavioral ecology and evolution. This symposium will be dedicated to presenting novel techniques and their application. Talks will focus on the novelty and usefulness of their procedures, and speakers will be encouraged to discuss the practicalities and pitfalls of the techniques, as well as the results of their experiments.

Invited speakers Tracey Chapman (University of East Anglia, UK) Michal Polak (University of Cincinnati, USA)

Organisers Amanda Bretman (University of East Anglia, UK, a.bretman@uea.ac.uk) Tom Price (University of Exeter, UK, tom.price@exeter.ac.uk)

Dr Amanda Bretman School of Biological Sciences University of East Anglia Norwich NR4 7TJ UK Tel: +44 (0)1603 591869 Fax: +44 (0)1603 592250

"Bretman Amanda Dr (BIO)"
<A.Bretman@uea.ac.uk>

Tuebingen ESEB FamilyEvolution Aug20-25 CallAbstracts

ESEB Symposium on 'Evolution of family interactions' Tübingen 2010, 20-25 August

CALL FOR ABSTRACTS

We invite abstract submissions for oral and poster presentations in this symposium at ESEB 2011 (European Society for Evolutionary Biology meeting, Tuebingen 20-25 August 2011, Germany). Abstract

should be submitted online (http://www.eseb2011.de/-call_for_abstracts.htm) by 28 February 2011.

We are seeking exciting contributions that focus on the evolution of family interactions from a behavioural ecology or quantitative genetic perspective. Family interactions are ubiquitous in mammals, birds and other species where one or both parents provide food or other forms of care for offspring after hatching or birth. Such interactions include sibling competition over resource share, parent-offspring conflict and interactions among caring parents. Both empirical and theoretical studies are welcomed. Invited speakers are Allen Moore, Exeter and Mathias Koelliker, Basel.

The symposium is organized by Reinmar Hager at Manchester and Per Smiset at Edinburgh.

Informal enquiries can be made to reinmar.hager@manchester.ac.uk or per.t.smiseth@ed.ac.uk

Reinmar.Hager@manchester.ac.uk

Tuebingen ESEB Genomics Aug20-25 CallAbstracts

ESEB 2011 Evolutionary ecological genomics symposium - Call for abstracts

We invite abstract submissions for oral and poster presentations in the symposium on Evolutionary ecological genomics at the ESEB meeting 2011 (European Society for Evolutionary Biology meeting, Tuebingen 20-25 August 2011, Germany).

ABSTRACTS submission is now open at:http://www.eseb2011.de/call_for_abstracts.htm DEADLINE for abstract submission is the 28TH OF FEBRUARY.

The symposium.

Progress in ecological genomics is hindered by limited genome information in non-model species and the lack of an ecological context in genetic model species. This symposium will focus on integrating cutting edge molecular biology in model and non model organisms within an evolutionary and ecological context. Our aim is to understand adaptive responses in multidimensional selection pressures in the wild.

Our symposium aims to attract contributions from aquatic and terrestrial systems as well as vertebrates and invertebrates to present advances in the field of

ecological genomics and promote constructive discussion.

Invited speakers:

We are honored to have FOUR invited speakers with expertise in complementary fields of ecological genomics, functional genomics, and evolution. Their research focuses on different model systems including both genetic model and non-model species.

Ilkka Hanski, Department of Ecology and Evolutionary Biology, PO Box 65 (Viikinkaari 1) 00014 University of Helsinki

Michael Pfrender (Department of Biological Sciences, University of Notre Dame, 109B Galvin Life Sciences, Notre Dame, IN 46556, PH)**

Hopi Hoekstra (Harvard University, Department of Organismic and Evolutionary Biology, Museum of Comparative Zoology, 26 Oxford Street, Cambridge, MA 02138 USA)

Katie Peichel (Fred Hutchinson Cancer Research Center, 1100 Fairview Ave. N. PO Box 19024 Seattle, USA)

Organizers:

Luisa Orsini, Catholic University Leuven, Belgium (luisa.orsini@bio.kuleuven.be)

Christophe Eizaguirre, Leibniz Institute for Marine Sciences (IFM-Geomar), Kiel, Germany (ceizaguirre@ifm-geomar.de)

For further information on the symposium feel free to contact the organizers. For logistic details on the conference refer to the ESEB webpage (<http://www.eseb2011.de/index.htm>). Do not forget to register before submitting your abstract.

Dr Luisa Orsini Laboratory of Aquatic Ecology and Evolutionary Biology, Katholieke Universiteit Leuven, Ch. Deberiotstraat 32, 3000 Leuven, Belgium

Phone: +32 016323851 Fax: +32 016320771
e-mail luisa.orsini@bio.kuleuven.be website:<http://bio.kuleuven.be/de/dea/people.php> Luisa Orsini
<luisa.orsini@bio.kuleuven.be>

We would like to invite submissions of abstracts for oral and poster presentations for the symposium “MUTUALISTIC INTERACTIONS: CAUSES AND CONSEQUENCES” that will be held at the upcoming Congress of the European Society of Evolutionary Biology (20-25 August 2011, Tuebingen, Germany).

SYMPOSIUM DESCRIPTION:

In recent years, our understanding of mutualistic interactions has significantly advanced. Rigorous experimental studies have fostered new insights and enhanced mutualism theory. This symposium aims at highlighting the latest developments in the field by drawing together both theoretical and empirical contributions, thereby analysing the evolutionary ecology of mutualisms on all levels of biological organisation. Topics that will be covered include, but are not limited to:

- i) cooperation and conflict in mutualistic interactions
- ii) factors that promote the evolution and maintenance of mutualisms
- iii) coevolutionary consequences and evolutionary genetics of mutualistic interactions
- iv) costs and benefits that result from mutualistic interactions

This symposium aims not only at providing a platform to discuss the latest developments in the field of mutualism research, but shall also help to identify future avenues.

INVITED SPEAKER:

Nancy Moran, Yale University, USA

ABSTRACT SUBMISSION: http://www.eseb2011.de/call_for_abstracts.html DEADLINE: 28 February 2011

MEETING WEBSITE: <http://www.eseb2011.de/>
SYMPOSIUM WEBSITE: http://www.ice.mpg.de/ext/conf.html#header_logo SYMPOSIUM ORGANIZERS:

Christian Kost Max Planck Institute for Chemical Ecology, Jena, Germany (ckost@ice.mpg.de)

Martin Kaltenpoth Max Planck Institute for Chemical Ecology, Jena, Germany (mkaltenpoth@ice.mpg.de)

Christian Kost <christiankost@gmail.com>

**Tuebingen ESEB Mutualism
Aug20-25 CallAbstracts**

**Tuebingen ESEB
PolyploidGenomics Aug20-25
CallAbstracts**

MUTUALISTIC INTERACTIONS: CAUSES AND CONSEQUENCES

POLYPLOID ECOLOGICAL GENOMICS

We would like to invite submissions of abstracts for oral and poster presentations for the symposium “POLYPLOID ECOLOGICAL GENOMICS” that will be held at the upcoming Congress of the European Society of Evolutionary Biology (20-25 August 2011, Tuebingen, Germany).

SYMPOSIUM DESCRIPTION:

Much progress was accomplished toward understanding the mechanisms driving evolution of polyploid genomes and the biological consequences of polyploidy in the wild. However, the genomics and ecology of polyploid lineages remain to be integrated. This symposium offers an opportunity for molecular and ecology people to explore concepts and tools that could unify research in ecological genomics.

INVITED SPEAKERS:

Brian Husband, University of Guelph, Canada

Jonathan Wendel, Iowa State University, USA

ABSTRACT SUBMISSION: http://www.eseb2011.de/call_for_abstracts.html **DEADLINE:** 28 February 2011

MEETING WEBSITE: <http://www.eseb2011.de/>
SYMPOSIUM ORGANIZERS:

Christian Parisod,

University of Neuchâtel, Switzerland

(christian.parisod@unine.ch)

Malika L. Ainouche

University of Rennes, France

(Malika.Ainouche@univ-rennes1.fr)

Christian Parisod Evolutionary Botany - University of Neuchatel Rue Emile-Argand 11 - 2000 Neuchatel - Switzerland Phone: +41 (0)32 718 2344, Fax: +41 (0)32 718 3001 e-mail: christian.parisod@unine.ch <http://www2.unine.ch/evobot/page29932.html> Christian Parisod <christian.parisod@unine.ch>

**Tuebingen ESEB
Population Genomics Aug20-25
Call Abstracts**

FUNCTIONAL POPULATION GENOMICS

We would like to invite submissions of abstracts for oral and poster presentations for the symposium “FUNCTIONAL POPULATION GENOMICS”, to be held at the upcoming Congress of the European Society of Evolutionary Biology (20-25 August 2011, Tuebingen, Germany).

SYMPOSIUM DESCRIPTION: This symposium showcases research in ‘functional population genomics’, an emerging subdiscipline of evolutionary systems biology. The symposium emphasizes integrative studies of pathway function that investigate the fitness consequences of transcriptomic and proteomic variation. A chief goal is to relate changes in pathway or network function to evolutionary changes in whole-organism phenotypes.

ABSTRACT SUBMISSION: http://www.eseb2011.de/call_for_abstracts.html **DEADLINE:** 28 February, 2011

MEETING WEBSITE: <http://www.eseb2011.de/>
INVITED SPEAKERS: Axel Meyer, University of Konstanz, Germany Chris Jiggins, University of Cambridge, UK

SYMPOSIUM ORGANIZERS:

Jay F. Storz University of Nebraska, USA (jstorz2@unl.edu)

Jeffrey M. Good University of Montana, USA (jeffrey.good@mso.umt.edu)

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

**Tuebingen ESEB Speciation
Aug20-25 Call Abstracts**

ESEB 2011 Speciation Symposium - Call for abstracts
Symposium: ‘Speciation by natural versus sexual selection’

The symposium is sponsored by the ESF Frontiers in Speciation research ‘FroSpects’ network. It is being organised on behalf of FroSpects by the Marie Curie Initial Training Network (ITN) ‘SPECIATION’.

The aim of FroSpects (<http://www.iiasa.ac.at/Research/EEP/FroSpects>) is to facilitate bridge-building between disparate approaches to speciation research, by bringing together young and senior European speciation scientists around a number of conferences, workshops, and schools.

The ITN Speciation network is composed of 19 researchers (9 PhD students and 10 PIs). The goal of this network is to address diverse aspects of speciation using several different approaches and study systems (<https://sites.google.com/site/itnspeciation>).

CALL FOR ABSTRACTS:

We invite abstract submissions for oral and poster presentations in this ESEB symposium (European Society for Evolutionary Biology meeting, Tuebingen 20-25 August 2011, Germany). ABSTRACTS should be submitted online (http://www.eseb2011.de/-call_for_abstracts.htm) by the 28TH OF FEBRUARY. Unfortunately, we cannot offer any financial support.

Submitted abstracts should examine the relative contribution of natural and sexual selection to the speciation process. We are particularly interested in addressing the question of whether the action of natural selection is pervasive in speciation involving sexual selection, or whether these two sources of selection can act independently to drive speciation.

Invited speakers:

Andrew Hendry (McGill University) Maria Servedio (University of North Carolina)

Two other invited speakers will be determined soon and posted on the ESEB and ITN Speciation websites. Funding for the invited speakers is provided by FroSpects.

Organisers:

Allan Debelle (a.debelle@sheffield.ac.uk) and Claudius Kerth (c.kerth@sheffield.ac.uk) (Animal and Plant Sciences, University of Sheffield, UK) on behalf of the Marie Curie ITN "SPECIATION" (steering committee: Roger Butlin, Mike Ritchie, Leo Beukeboom, Anneli Hoikkala).

MORE INFORMATION AVAILABLE HERE: <https://sites.google.com/site/itnspeciation/eseb>
allandebelle@gmail.com

Tuebingen ESEB SystemsBiol Aug20-25 CallAbstracts

Conference: Evolutionary systems biology Symposium
ESEB 2011 Aug 20-25, Tübingen

*** Deadline Monday, 28 Feb 2011 ***

We are inviting abstract submissions for oral and poster presentations for the symposium "Evolutionary systems biology", to be held on a day at the European Society for Evolutionary Biology (ESEB) meeting in Tübingen, Germany (20-25 August 2011).

Abstracts must be submitted online at <http://www.eseb2011.de/> by 28 February 2009 latest.

The emerging field of evolutionary systems biology draws on systems biology, laboratory evolution, population genetics and comparative genomics to answer system level biological questions within an evolutionary framework. Such an evolutionary approach might allow characterising and understanding the significance of observed diversity in molecular systems, uncovering evolutionary principles and extending predictions made in model organisms to other species. In addition, by extending molecular systems biology models to predict fitness correlates, evolutionary systems biology can enable new insights into the adaptive landscape and genotype-phenotype maps and may thus be used to address problems in population genetics. Such work can inspire mechanistic simulations of evolution, testing increasingly detailed evolutionary hypotheses.

Confirmed invited speakers: - Jennifer Reed (University of Wisconsin-Madison) Using computational models to explore and leverage biochemical networks - Andreas Wagner (University of Zürich) The origins of evolutionary innovations

For more details and updates see:

<http://evolutionarysystemsbiology.org/meeting/2011-ESEB/index.html> We are looking forward to seeing you in Tübingen.

The organizers Laurence Loewe, Laboratory of Genetics and Wisconsin Institute for Discovery, University of Wisconsin-Madison, USA (Laurence.Loewe@evolutionary-research.net)
Orkun Soyer, University of Exeter, UK (O.S.Soyer@exeter.ac.uk)

Laurence.Loewe@evolutionary-research.net

Tuebingen ESEB Viviparity Aug20-25 CallAbstracts

ESEB 2011 V Call for abstracts VIVIPARITY, PLACENTATION AND CONFLICT

We invite submission for oral and poster presentations

to this ESEB 2011 symposium V European Society for Evolutionary Biology meeting, 20-25 August 2011, Tuebingen (Germany).

*** Deadline for abstract submission: 28th of February ***

Abstracts V 1700 characters max (about 200-250 words) - should only submitted at: http://www.eseb2011.de/call_for_abstracts.htm Viviparity evolved multiple times in the animal kingdom. Despite its fundamental role in viviparity, the placenta exhibits striking and still unexplained morphological variation. We welcome contributions on how and why viviparity and placental diversity evolved and we are particularly interested in contributions that examine the evolution of molecular, morphological and physiological aspects of placental diversity and viviparity, the role of sexual conflict and environmental pressures in driving the evolution of these traits, and the implications of viviparity and placentation for macroevolutionary patterns.

Invited speakers: Prof. Derek Wildman (Wayne State University) Website: <http://homopan.wayne.edu/index.html> Prof. David Reznick (University of California, Riverside) Website: <http://www.faculty.ucr.edu/~gupy/Reznick/> Organizers: Dr. Isabella Capellini (Queens University of Belfast, UK, and Durham University, UK) Email: Isabella.Capellini@dur.ac.uk

Prof. Robert Barton (Durham University, UK). Email: R.A.Barton@dur.ac.uk

Isabella Capellini <isab972@yahoo.co.uk>

UCalifornia SantaBarbara EvolutionDisease Jun19-25

SAVE THE DATE!

EEID 2011: The 9th Annual Ecology and Evolution of Infectious Disease (EEID) Conference and Workshop will be held on the beautiful University of California, Santa Barbara campus. Conference: June 19-20, 2011 Hike/Field Trip: June 21, 2011 Workshop: June 22-25, 2011 This year's theme will be: Networks and Complexity (with more information coming soon!).

Housing will be available on campus in the Manzanita Village Residence Halls, located immediately adjacent to the Pacific Ocean (nightly rate: \$107.23/person single occupancy, or \$85.31/person double occupancy; this rate includes most meals). Conference registration fee

will be approximately \$120/person. Conference registration will be by May 15, 2011

Disease modeling workshops (June 22-25) cover both ecology and evolutionary biology. Topics and schedules will be similar to those in previous years (see <http://www.eeidconference.org/-Workshops/workshops.html>). For graduate students and post-docs who are US citizens or resident aliens, scholarships funded by the National Science Foundation are available that cover the \$500 workshop fee and up to \$500 in travel support. Applications for the workshops will be due by March 15, 2011, with notification of acceptance by April 15.

The Santa Barbara International Airport (SBA) is approximately 1 mile from the UCSB campus. Los Angeles International Airport (LAX) is 108 miles from UCSB, and shuttle service is available by Santa Barbara Airbus (<http://www.sbarairbus.com/>).

Local hosts are Cherie Briggs and Kevin Lafferty

– Michael F. Antolin

Professor, Department of Biology Director, Shortgrass Steppe Research and Interpretation Center (<http://sgsric.colostate.edu>) Colorado State University Fort Collins, CO 80523-1878 U.S.A.

e-mail: Michael.Antolin@ColoState.edu Voice: (1)-970-491-7011 FAX: (1)-970-491-0649

Colorado State University Laramie Foothills CWD Project <http://www.nrel.colostate.edu/projects/-modelingCWD/> Flexible and Extendible Scientific Undergraduate Experience (FEScUE) NSF Undergraduate Biology and Mathematics Program <http://www.fescue.colostate.edu> michael.antolin@colostate.edu

UHawaii EvolutionaryBiol Feb17-18

The University of Hawaii at Hilo TCBES Research Symposium is now open for registration!

Join us for this collaborative event on February 17th and 18th and share your latest research before a body of like-minded students, researchers and professionals. Research concerning ecology, evolution, environmental science & conservation biology related to Hawai'i & the Pacific region are welcome. Studies examining relationships between communities, cultures & environmental issues are encouraged.

Symposium highlights include:

Keynote from Dr. Liba Pejchar, Colorado State University. Dr. Pejchar's research focuses on conservation on private lands, the akiapau & young koa stands
 An engaging, informal venue for works-in-progress & polished research
 Poster session & social mixer
 Silent auction for fabulous prizes

The symposium offers four options for presenters:

5-minute presentations ideal for those who want to present a research idea
 no data required
 10-minute presentations researchers who have advanced ideas or

preliminary data to share
 15-minute presentations suitable for students, faculty or agency personnel sharing some background information and final results

Poster presentation great for obtaining extended feedback from researchers and other students

Awards for best undergraduate and graduate student poster and presentation!

Register online at tcbes.uhh.hawaii.edu by January 15th. Contact colincp@hawaii.edu with any questions.

Colin Phifer <colincp@hawaii.edu>

GradStudentPositions

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HelmholtzCentre Germany 2 PlantEvolution	19	UCollegeLondon GeneticsEvolutionEnvironment ...	28
IPK Germany PlantEvolutionaryBiol	20	UExeter EvolutionarySystemsBiology	28
JouyenJosas France EffectivePopSize	21	UGuelph MarineInvertBarcoding	29
Kiel Germany ImmuneEvolution	21	ULeipzig MolecularPrimateEvolution	29
London EvolutionSociality	22	UMuenster HostPathogens	30
MaxPlanckInst HumanPalaenotology	22	UNottingham EvolutionaryBiol	30
MaxPlanckInst ModellingAging	23	UPotsdam PlanktonAdaptation	31
MonashUMalaysia PopulationGenetics	23	UTurku TelomereEvolution	31
OklahomaStateUniv milkweed phylogenomics	24	UWarwick ResistanceEvolution	32
OssietzkyU Germany RotiferaSystematics	24	UWyoming SpeciesMicroEvolution	32
PotsdamU EvolutionaryBiology	25	UZurich FlowerEvolution	33
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Barcelona ClimateAdaptation

PHD OPPORTUNITY IN BARCELONA

A four year PhD studentship is available to study the adaptation of porcine creole breeds to extreme climates using new sequencing technologies. During the thesis, whole genome sequence data from pigs adapted to heat

(tropical and subtropical animals) and altitude (Andean altiplano) will be analyzed. This data will be combined with extant and forthcoming data on Illumina SNP data. The project is in cooperation with diverse international groups. The student will work in a multidisciplinary group with expertises in quantitative, population and molecular genetics. The work will be developed in a new center in Agrigenomics (www.cragenomica.es) within the campus of Universitat Autònoma of Barcelona (www.uab.es). Ample opportunity exist for interaction with other groups and to train in Bioinformatics and in animal breeding and

genetics, including the newly founded National Center for Genomic Analysis, which hosts several Illumina sequencers.

The fellowship does not require a MSc title and no restriction on nationality exists, although more paperwork is required for non European students. The fellowship is accompanied by travel allowances to visit foreign labs and medical insurance.

We are looking for highly motivated students with an interest in population and quantitative genetics and bioinformatics as applied to livestock. Interested students please email CV including the transcript of University record with full qualifications, and name and email of two professionals who can provide references at miguel.perez@uab.es .

Miguel Perez-Enciso ICREA professor Dept. Ciencia Animal i dels Aliments Facultat de Veterinaria Universitat Autonoma de Barcelona 08193 Bellaterra, SPAIN Phone: +34 93 581 4225 Fax: +34 93 581 2106 miguel.perez@uab.es <http://www.icrea.cat/Web/ScientificForm.aspx?key=255> “Sebastian E. Ramos-Onsins” <sebas@ramos.net>

ChicagoBotanicGarden PlantConservation

MS Research Assistant Position available at Northwestern University and the Chicago Botanic Garden in Plant Biology and Conservation

The Graduate Program in Plant Biology and Conservation is a collaborative program between Northwestern University and the Chicago Botanic Garden. It aims to foster an academic and research environment that allows students to gain experience, skills, and knowledge to become scholars, leaders, and practitioners in plant biology and conservation. A MS research assistant position is now available in the lab of Nyree Zerega. The successful applicant would work in the plant genetics lab at the Plant Science Center at the Chicago Botanic Garden, working on the NSF REVSYS grant ³Phylogeny and Revision of Artocarpus (Moraceae) with a Focus on Understanding the Origins and Diversity of Cultivated Members of the Genus.² The student would have the flexibility to conduct independent research on related topics. Opportunities for fieldwork in Southeast Asia also exist.

Application deadline is February 15, 2011. Contact

Nyree Zerega directly if you have any specific questions: nzerega@chicagobotanic.org

To learn more about the research in the Zerega lab, visit: <http://www.plantbiology.northwestern.edu/faculty/zerega.html> Visit these pages for more information about the graduate program and facilities: http://www.plantbiology.northwestern.edu/http://www.chicagobotanic.org/research/labs.php?expanddiv=3Dplant_conservation For information about applying, visit: <http://www.plantbiology.northwestern.edu/admissions/MSadmissions.html>

nzerega@chicagobotanic.org

HelmholtzCentre Germany 2 PlantEvolution

Dear all,

The Department of Community Ecology of the Helmholtz Centre for Environmental Research-UFZ and the Institute of Plant Science of the University of Bern are each inviting applications for a

*3 year PhD position (m/f) *

code digit 15/2011

The positions are granted within Subproject 4 “ Plant genetics” of the DFG Research Unit 891, BEF China, “The role of tree and shrub diversity for production, erosion control, element cycling, and species conservation in Chinese subtropical forest ecosystems” (www.bef-china.de), subject to final approval by the DFG Senate.

The successful candidates will have the unique opportunity to be part of one of the largest biodiversity experiments worldwide. Their work will include both, field and experimental work in an extremely species rich forest ecosystem in subtropical China, as well as work in an up-to-date and well equipped laboratory. Aim of the project is to understand how species diversity and genetic diversity within species can affect ecosystem functioning. Both successful candidates will closely cooperate in investigating molecular and quantitative genetic variation in plants. The work will include (1) detailed field observations of flowering phenology of several tree species, (2) analyses of genetic diversity, genetic structure and gene flow using neutral genetic markers (microsatellites), (3) the assessment of quantitative traits

in field and experimental sites.

The ideal candidates have a background in molecular and quantitative genetics. They have a strong knowledge in plant ecology, an understanding of plant reproduction and combine organisational skills with strong personal responsibility. The ideal candidates have a proven experience in statistics and are fluent in spoken and written English. The desire to engage in collaborative research is essential.

The Department of Community Ecology (BZF) of Helmholtz Centre for Environmental Research UFZ is an active group with research focus on patterns and processes of biodiversity; biotic responses to environmental change, invasive species and macroecology. The Department of Plant Ecology at the Institute of Plant Sciences of the University of Bern is a lively group mainly concerned with causes and consequences of biodiversity change, with the ecology and evolution of rare and invasive species, and with conservation biology. Both departments provide extensive scientific networks both nationally and internationally and a young and highly collaborative research environment.

One position will be located at the Helmholtz Centre for Environmental Research, Halle (Saale), Germany, with salary according to TVÖD 13 (65%) and participation in the Graduate School HIGRADE (<http://www.ufz.de/index.php?en429>).

One position will be located at the department of Plant Ecology, Bern University, Switzerland.

Women are explicitly encouraged to apply for increase their share in science and research. Physically handicapped persons will be favoured if they are equally qualified. Applicants must hold a Diploma or Master degree in biology, biochemistry or chemistry.

More information can be provided by Dr. Walter Durka, phone: 0049-0345-5585314, E-mail: Walter.Durka@ufz.de <http://www.ufz.de/index.php?en6> Prof. Dr. Markus Fischer, phone: 0041-31 631 4943, E-mail: Markus.Fischer@ips.unibe.ch <http://www.botany.unibe.ch/planteco> Please send your application until 15.2.2011 under code 15/2011 to the Personnel department of the Helmholtz Centre for Environmental Research, PO Box 500136, 04318 Leipzig, Germany, or by email to application@ufz.de or to University of Bern, Plant Sciences, Altenbergrain 21, CH-3013 Bern.

Dr. Walter Durka Department Biozönoseforschung Department of community ecology

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ
Helmholtz Centre for Environmental Research - UFZ

Theodor-Lieser-Str. 4 / 06120 Halle / Germany

walter.durka@ufz.de / <http://www.ufz.de/-index.php?eny8> phone +49 345 558 5314 / Fax +49 345 558 5329

walter.durka@ufz.de

IPK Germany PlantEvolutionaryBiol

The IPK is one of the big, internationally significant centres of plant research with a focus on cultivated plants and their wild relatives. The IPK co-operates with working groups of German and international universities, independent research institutions and enterprises.

The working group of Experimental Taxonomy invites applications for 2 positions as

n PhD Student - Evolutionary Biology (f/m)

1. Topic: Phylogenetic analysis of the grass tribe Triticeae using a next generation sequencing approach
2. Topic: Analysis of the impact of differences in flowering time genes on the evolution of reproductive isolation in three closely related *Hordeum* species

The IPK provides PhD-Students an excellent technical infrastructure with state-of-the-art technologies for high throughput sequencing, genotyping and phenotyping. The Genebank Department, where the positions will be located, hosts a molecular-systematics lab, a herbarium, ample greenhouse facilities, several reference collections, and the federal ex situ genebank, maintaining c. 150 000 accessions of crops and their wild relatives. PhD students of the institute participate in the IPK graduate program.

You fit to us: You must hold a diploma or master degree in biology or related fields. You should be highly motivated and interested in general questions of evolutionary biology. You are enthusiastic in solving bioinformatic and lab challenges.

If you need further information regarding the projects feel free to contact Mr. Blattner. You reach him under blattner@ipk-gatersleben.de.

Equal opportunities exist for female and male applicants. Hence, certified women are particularly asked to apply. A family-friendly environment is given. Severely disabled people are taken in preference when the same

level of qualification is given.

Employment starts as soon as possible. The projects are funded by DFG for 3 years, thus the contracts are limited for 36 month. Payment according to part time job E 13 TV-L.

Please send your complete and informative application up to 27.02.2011 under mentioning the identity figure 05/01/11 to Ms. Gläser (glaeser@ipk-gatersleben.de). If you have questions regarding the application procedure and selection procedure you reach Ms. Gläser under phone +49 (0) 39482 5101.

Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Frau Gläser Corrensstraße 3 06466 Gatersleben Germany www.ipk-gatersleben.de

Wilma Klaasen-van Husen <klaasen-van-husen@ipk-gatersleben.de>

JouyenJosas France EffectivePopSize

Dear all,

Thomas Bataillon and myself (Frederic Hospital) are proposing a 4-years PhD project “Comparative analysis of estimators of the effective population size.” < http://www.egsabg.eu/IMG/pdf/EGS-ABG_2011-1-APT-AU_NeEstimation.pdf > “funded within the newly established European Grad School for Animal Breeding and Genetics (<http://www.egsabg.eu/>)

The deadline for application is very soon *** January 16th *** so I would be very grateful if you could circulate our project.

Interested candidates should contact us: Thomas Bataillon <tbata@birc.au.dk> or Frederic Hospital <Frederic.Hospital@jouy.inra.fr> for further details as soon as possible.

With my very best regards, Fred.

—details about the project and application .— The PhD project will be based partly in Jouy en Josas (just south of Paris ~3 years) and in Aarhus (~1 year). It will be devoted to comparing methods for Ne estimation and evaluating the robustness of these methods to the effect of selection at neighboring loci in the genome. It will involve a combination of theory (simulation or more analytical work depending on the candi-

dates skills/taste) and data analysis of several datasets.

The potential candidates can get more details regarding salary at <http://www.egsabg.eu/spip.php?article3> and the application procedure at <http://www.egsabg.eu/spip.php?article8> The only restriction is that candidates should neither be French nor Danish and should not have been previously affiliated with either Aarhus University or Agro-Paris Tech.

Frederic.Hospital@jouy.inra.fr

Kiel Germany ImmuneEvolution

PhD position in evolutionary ecology, Kiel, Germany

Topic: External immune defense in the Red Flour Beetle *Tribolium castaneum*

The aim of this PhD project is to use a manipulative approach to understand the relative importance of internal and external immune defences in the model organism *Tribolium castaneum*. This beetle expresses external defences in the form of secreted antimicrobial substances as well as internal, “classical” immune mechanisms. The relative advantages and disadvantages of these two types of defences are as yet unclear. They shall be evaluated with the help of selection lines, controlled lab experiments and molecular approaches such as transcriptome analyses. The project is part of the Volkswagen initiative on evolutionary biology with a grant to Dr. Gerrit Joop.

This specific PhD position (payment according to 13 TV-L/2) under supervision of Dr. Gerrit Joop will be based in the Department of Evolutionary Ecology and Genetics at the University of Kiel (Northern Germany), headed by Prof. Dr. Hinrich Schulenburg. The department itself provides an international and interactive atmosphere, while Kiel University and connected institutes (e.g., Max Planck Institute in Ploen) offer a stimulating research environment with a particular focus on evolutionary biology and genetics. The city of Kiel is a medium-sized pleasant town located at the coast of the Baltic Sea. It is the capital of the most Northern state of Germany, Schleswig-Holstein. It offers many opportunities for leisure activities, including theatres, an opera, the Schleswig-Holstein classical music festival, the heavy metal festival in Wacken, sailing, surfing, cycling, and the famous festivities of the “Kieler Woche” à one of the largest sailing events in Europe.

Requirements for the position: Master or Diploma

in Biology, high motivation, excellent background in ecology and/or evolutionary biology, good knowledge of statistics, handling of complex experimental set-up, teamwork, ideally some experience with *T. castaneum*, molecular work experience, and fluency in English.

Please send applications with CV, one-page statement of research interests, and the names and addresses of two referees as a single pdf- file by email to Gerrit Joop (gjoop<at>zoologie.uni-kiel.de). Deadline for applications: 4th March 2011. Start of position: May 2011 or soon afterwards. Women are especially encouraged to apply. Severely handicapped people will be preferentially considered in case of equivalent qualifications. For further details & questions, send an email to Gerrit Joop (gjoop<at>zoologie.uni-kiel.de). Otherwise see: <http://www.uni-kiel.de/zoologie/evoecogen> .

Gerrit Joop

Zoological Institute Christian-Albrechts-Universität zu Kiel Am Botanischen Garten 1-9 D-24118 Kiel Germany

phone: +49-(0)431-880-4146 fax: +49-(0)431-880-2403

gjoop@zoologie.uni-kiel.de www.uni-kiel.de/zoologie/evoecogen/ Gerrit Joop <gjoop@zoologie.uni-kiel.de>

London EvolutionSociality

4-Year PhD Studentship What makes a winning team? Tests of collective performance in animal groups

One way that animal groups cope with uncertainty in their environment (i.e. where resources and threats do not change predictably in time or space) is to draw upon one another's particular expertise or information. For instance, we know that summing information possessed by individual group-members can increase the "collective cognition" of groups; a concept which has attracted much attention in the media and been termed "the wisdom of crowds". Larger and/or more diverse groups may also contain individuals with different skills and experiences, which increase the chances of a group solving a given task. We now have a number of mathematical models that make clear predictions about how group size, and individual diversity of information impacts on collective performance of animal groups. This PhD studentship, supervised by Drs Andrew King and Andrew Spence (Royal Veterinary College, University of London), and Dr Andrea Manica (University of Cambridge) will test models of collective performance, and delin-

eat the exact conditions under which groups follow an informed leader or aggregate information across group members when faced with simple foraging choices. Experiments will be primarily conducted in the laboratory, using stickleback fish (*Gasterosteus* spp.), and their performance tracked in real-time using sophisticated video-tracking software. There will also be opportunity for conducting similar experiments with sheep flocks and human crowds. Suitable candidates should hold a first degree in biological or veterinary sciences, and show an enthusiasm for attacking a variety of fundamental behavioural and evolutionary research questions.

* Harcourt, J.L., Sweetman, G., Manica, A., & Johnstone, R.A. (2010) Pairs of fish resolve conflicts over coordinated movement by taking turns. *Current Biology* 20: 156-160 * King, A. J., Johnson, D. D. P. & Van Vugt, M. (2009) The origins and evolution of leadership. *Current Biology* 19: 911-916. * Katsikopoulos, K. & King, A. J. (2010) Swarm intelligence in animal groups: When can a collective out-perform an expert? *PLoS one*. 5(11): e15505.

Supervisors: Dr Andrew King (<http://www.rvc.ac.uk/Staff/ajking.cfm>)

Dr Andrew Spence (<http://www.rvc.ac.uk/Staff/aspence.cfm>)

Dr Andrea Manica (<http://www.zoo.cam.ac.uk/zoostaff/manica/manica.htm>)

The application deadline is 11 February 2011.

Please contact Dr Andrew King (ajking@rvc.ac.uk) with any questions or queries. To apply, please follow the instructions on the RVC website: <http://www.rvc.ac.uk/Postgraduate/PhD/HowDoIApply.cfm> (FindAPhd.com advert: <http://www.findaphd.com/search/showproject.asp?projectid=3D31546&inst=-3DLOND-RVTC&searchtype=i&theorder=2&page=1>))

MaxPlanckInst HumanPalaenotology

Ph.D studentship in Human Palaeontology at the Max Planck Institute for Evolutionary Anthropology

The Department of Human Evolution of the Max Planck Institute for Evolutionary Anthropology, Leipzig (Germany) invites applications for one or more

PhD positions. Research projects will focus on the cranio-dental fossil record of African Plio-Pleistocene hominins.

Applicants should hold a Masters degree or equivalent in biology, anthropology, palaeontology, or a related field. A good basic knowledge of the hominin fossil record, and of common analytical methods is important. The PhD stipend will be given for three years, and the successful candidate(s) will enroll in the Leipzig School of Human Origins. The formal deadline of application is 31 January 2011 (<http://imprs.eva.mpg.de/-start.html>), but late applications may be considered.

For further information please contact Fred Spoor (f.spoor@eva.mpg.de)

Alyson Reid <alyson_reid@eva.mpg.de>

MaxPlanckInst ModellingAging

The Max Planck Institute for Demographic Research seeks several doctoral students, post-doc fellows and junior scientists interested in statistical analysis and mathematical modeling to collaborate with biologists, demographers and statisticians on path-breaking research on the RATE OF AGING in humans and across the tree of life. Applications will be reviewed as received, with research starting Feb.-Oct. 2011. For details see www.demogr.mpg.de/go/appl-rate-of-aging. Thank you very much.

Antje

“Gosselck, Antje” <Gosselck@demogr.mpg.de>

MonashUMalaysia PopulationGenetics

Graduate Student Positions available in Evolutionary and Population Genetics at Monash University Malaysia

Graduate student (Ph.D. and M.Sc.) positions are available in the laboratory of Molecular Genetics and Genomics in the School of Science, Monash University Sunway Campus, Malaysia.

We are looking for highly motivated students interested in Evolutionary and Population Genetics for 2 specific projects:

1) Molecular phylogeny of *Bulbophyllum* spp - pollinator & floral traits coevolution (M.Sc. student)

Interactions between pollinators and flowers can drive developmental and evolutionary changes in both pollinator and plant species (coevolution). However, knowledge on the actual mechanisms of interaction and especially pollinator identities remains very limited. This project will investigate the role(s) of fly pollinators in the development and evolution of floral traits in *Bulbophyllum* orchids, or vice versa. Fieldwork and observations of *Bulbophyllum* spp. and their pollinators will be carried out in Malaysia.

This project is in collaboration with the Forest Research Institute Malaysia (FRIM), so the candidate will have the opportunity to work closely with tropical biologists and plant systematists/taxonomists based at FRIM.

2) Population genetics and the origin of weedy rice in Malaysia (M.Sc. student or Ph.D student)

This project aims to obtain fundamental knowledge on the genetic variation and population structure of weedy rice, in order to better understand the origin of weedy rice. In addition, the candidate will work on the development of a set of molecular markers that will permit differentiation between weedy and cultivated rice in Peninsular Malaysia.

FUNDING (Full scholarships) for graduate students are currently available for qualified candidates.

For more information, please contact:

Sheh May Tam, Ph.D. Email: tam.sheh.may@sci.monash.edu.my Tel: +603 5514 6113 <http://www.sci.monash.edu.my/staff/Dr-Tam-Sheh-May.html> or Song Beng Kah, Ph.D. Email: song.beng.kah@sci.monash.edu.my Tel: +603 5514 6119 song.beng.kah@sci.monash.edu.my <http://www.sci.monash.edu.my/staff/Dr-Song-Beng-Kah.html> Information regarding research activities and admission requirements and applications are available from: <http://www.sci.monash.edu.my/research/-Research.html> <http://www.sci.monash.edu.my/-research/Doctor-of-Philosophy-PhD.html> <http://www.sci.monash.edu.my/research/Master-of-Science-MSc.html> tam.sheh.may@sci.monash.edu.my

OklahomaStateUniv milkweed phylogenomics

Graduate Position in Phylogenetics/Genomics at Oklahoma State University

Mark Fishbein (Oklahoma State University, Department of Botany) seeks a graduate student (PhD or MS) to apply genomic approaches to the phylogeny of American milkweeds (*Asclepias*, Apocynaceae). The student will participate in an NSF-funded collaborative project with Dr. Aaron Liston and Dr. Richard Cronn at Oregon State University.

Milkweeds have served as a important model system for studies of the evolution of pollination systems and plant defenses against herbivory. Continued phylogenetic study is required to fully resolve species level relationships, to further test and expand upon theories of coevolution of plants, pollinators, and herbivores, and to develop milkweeds as a model system for the comparative study of genomes.

Graduate research in the Fishbein lab may include working with the complete genome of *Asclepias syriaca* (common milkweed) and chloroplast genomes from ca. 150 species of *Asclepias* and relatives. Research activities can involve field work in the US, Mexico, and/or South America, next-generation DNA sequencing, and phylogenetic and phylogenomic analysis. Opportunities exist for PhD students to develop independent projects making use of the considerable data generated for this research.

Students will be supported by a combination of research and teaching assistantships. Information about the Botany department can be found at <http://botany.okstate.edu> and the Fishbein lab at <http://fishbein.okstate.edu>.

To be eligible for stipend enhancements for Fall 2011 admission, applications must be submitted by Feb. 1, 2011; however, early inquiries are encouraged. Inquiries should be directed to mark.fishbein@okstate.edu.

Mark Fishbein Oklahoma State University Department of Botany 104 Life Sciences East Stillwater, OK 74078 USA

ph: +1-405-744-4757 fax: +1-405-744-7074

mark.fishbein@okstate.edu

OssietzkyU Germany RotiferaSystematics

A PhD position is available starting in the summer of 2011 in the Molecular Systematics and Evolutionary Biology research group at the Carl von Ossietzky University in Oldenburg, Germany. The position is funded by the German Science Foundation (DFG) for a period of three years, with a salary according to the German salary scale TV-L E13 (66%).

The goal of the project is to establish a taxonomically comprehensive, multigene phylogeny of Rotifera in the first instance and then to use the phylogeny to investigate the evolutionary biology of numerous interesting traits within the group (e.g., reverse sexual dimorphism or differential species richness). The preferred candidate should have a Master's degree in biology or a related field and strong laboratory skills and experience, particularly with respect to DNA extraction and sequencing, as well as a good foundation in both taxonomy and phylogenetic analysis. An interest in or research experience with Rotifera or other meiofauna is also desirable. Knowledge of German is a definite asset, but is not required.

Applications should contain a full CV, a brief statement of research interests and experience, and contact information for up to two referees; electronic applications consisting of a single PDF file are preferred. All applications received by March 15, 2011 will receive full consideration.

Further information about the research group and the position can be found at www.molekularesystematik.uni-oldenburg.de or by contacting either myself at the address below or also Wilko Ahlrichs at wilko.ahlrichs@uni-oldenburg.de.

Olaf Bininda-Emonds

Prof. Dr. Olaf R.P. Bininda-Emonds AG Systematik und Evolutionsbiologie IBU - Fakultät V Carl von Ossietzky Universität Oldenburg 26111 Oldenburg Germany

Phone: +49 441 798 3965 Fax: +49 441 798 193965 e-mail: olaf.bininda@uni-oldenburg.de WWW: <http://www.molekularesystematik.uni-oldenburg.de/> olaf.bininda@uni-oldenburg.de

PotsdamU EvolutionaryBiology

PhD position in Evolutionary Biology at Potsdam University

Within the “Graduate School of Earth Sciences at Potsdam University”, there is a 3 years fellowship available in a joint project between the Unit of Evolutionary Biology/Systematic Zoology and the Institute of Geosciences. The successful candidate will analyze inter- and intraspecific diversity in lacustrine plankton in lake sediments of the East African Rift valley and relate this to environmental change. The project includes field work in Kenya.

The Unit of Evolutionary Biology/Systematic Biology has a strong focus on population genetic and speciation research, involving various taxonomic groups and a suite of molecular, morphological, and behavioural approaches (see <http://www.bio.uni-potsdam.de/-professuren/evolutionsbiologie/publikationen/-publikationen> for recent work).

Applicants must hold a university degree (Diplom oder Master of Science in biology or a related discipline). Familiarity with modern molecular genetic techniques (PCR etc.) is preferable.

The University of Potsdam is an equal opportunity employer. If equally qualified, disabled applicants will be preferably considered. The University of Potsdam aims at increasing the number of female researchers and encourages qualified females to apply.

Potsdam is a beautiful city in close vicinity to the German capital of Berlin. Potsdam University takes an effort to assist its members in family-related issues and has repeatedly been awarded the total e-quality award. Deadline for application is 1st February 2011. Details of the application procedure can be found at:

http://www.geo.uni-potsdam.de/tl_files/-arbeitsgruppen/grk1364/grk1364_advertisement.pdf
For project-specific enquiries, you can contact Ralph Tiedemann (tiedeman@uni-potsdam.de).

Ralph Tiedemann <tiedeman@uni-potsdam.de>

QueensU Belfast HoneyBee hostparasite

Phd Studentship in host-parasite interactions available at Queen’s University Belfast

Characterisation of the autophagic response in pathogen-infected honeybees. Supervisors: Dr James Murray (CCRCB, School of Medicine, Dentistry & BMS), Prof. Robert Paxton & Dr Sheena Cotter (EE-BEE, Biological Sciences) Autophagy is a primordial cell survival pathway, essential for all eukaryotic organisms. In disease, autophagy is dysregulated during neurodegeneration, cancer and pathogenic infections. Our laboratory studies the fundamental signalling mechanisms that control autophagy initiation in multicellular eukaryotes. Honeybee pathogens, e.g. deformed wing virus and *Nosema ceranae*, pose severe threats to colony survival and contribute to the declining numbers of honeybees. Pathogenic infection may subvert the autophagic pathway within bee cells for survival. Therefore, we propose that autophagy modulation in infected honeybees may allow elimination of these pathogenic infections. The studentship will focus on a molecular analysis of autophagy in established honeybee cell lines and generation of honeybee cell lines genetically altered in their autophagic response. The response of these cell lines to isolated pathogens will then be assessed and known chemical modulators of autophagy will be tested for their ability to mitigate cellular infections. This studentship will be the first study of autophagy in an insect pollinator species and may lead to the identification of a novel means of eliminating pathogenic infections in honeybees. This is a DEL-funded strategic priority studentship that will be jointly supervised by researchers in the Centre for Cancer Research and Cell Biology (School of Medicine, Dentistry and Biomedical Sciences) and the Evolution, Ecology, Behaviour and Environmental Economics research cluster (School of Biological Sciences) at Queen’s University Belfast.

Applications

Full funding is available for UK students only, EU students would qualify for fees-only funding, candidates from outside the EU are ineligible for this funding. This studentship is suitable for any student with, or expected to obtain, a 2:1 or above in a biomedical or biological sciences-related discipline.

Informal enquiries to Dr James Murray, Tel: 028 9097 2180, Email: j.t.murray@qub.ac.uk

Application is via the QUB portal: <https://qolps.qub.ac.uk/home/> Closing Date: February 18th

Sheena Cotter NERC Postdoctoral Fellow Proleptic Lecturer in Ecology and Evolutionary Genetics

School of Biological Sciences Queen's University Belfast MBC, 97 Lisburn Rd Belfast

Tel: +44 (0)28 9097 2691 Email: s.cotter@qub.ac.uk

Sheena Cotter <s.cotter@qub.ac.uk>

RyersonU PlantConservation

Graduate Assistantship available in Plant Evolutionary Ecology and Conservation Biology

Description:

My lab is broadly interested in the evolution and conservation of plants, often focusing on plant hybridization and mating patterns. My research program broadly aims to understand the evolutionary consequences of global climate change, species invasions, and species rarity. More specifically, I study (1) the mechanisms regulating genetic diversity, phenotypic evolution, and population demography in rare and invasive plants and (2) how evolutionary processes (hybridization, adaptation) and properties (mating systems, genetic diversity) affect the ecological function of plant populations (e.g., reproduction, extinction). As such, my research touches on a variety of sub-disciplines, including conservation biology, agricultural ecology, and population dynamics using a combination of field, greenhouse, and eco-informatic approaches. Students are expected to develop their own independent projects but will also have opportunities to collaborate on funded investigations of hybridization in North American agricultural and natural plant ecosystems.

Ryerson's Chemistry and Biology department program boasts an exceptionally active and growing faculty. Areas of emphasis include environmental and molecular biology. Financial support is available for graduate students.

Applications: I am accepting applications from prospective MSc or PhD students to start a graduate program in September 2011. If you are interested,

please email me (lesley.g.campbell@ryerson.ca) a statement of your research interests with your CV and the names and email addresses of at least 2 references. ** Although all strong candidates will be thoroughly considered, Canadian applicants are strongly encouraged to apply **

lesley.g.campbell@ryerson.ca

SheffieldU BehavEcolEvolBiol

Genetic correlation between social behaviour and ornamentation

There is remarkable variation in sexually-selected traits within single species. Although such traits are expected to be heritable, they may be genetically constrained through pleiotropic linkage (where single genes affect multiple traits). In the case of melanin-based ornamentation, pleiotropic linkage predicts correlations between (among others) the degree of melanism and social behaviour, which have indeed been observed in several vertebrates. In addition, melanin plumage traits may also be affected by the social behaviour of conspecifics, which may result in a feedback mechanism. In particular, if some of the correlated behavioural traits are closely linked to fitness, such a system may enable the coexistence of alternative strategies of how males signal their fitness to both mates and conspecifics. This could in part explain how variance in sex-dependent traits and linked social behaviour is maintained within populations.

This study will investigate phenotypic and genetic correlations between social behaviour, behavioural traits, melanin ornamentation and fitness in a model organism for the study of melanin-based ornaments, the house sparrow (*Passer domesticus*). We will use a long-term dataset (including a genetic pedigree of 10 years) from an isolated wild island population of house sparrows to unravel potential genetic constraints, and to disentangle the causality and feedback potential between melanin ornaments and behavioural traits (e.g. parental care, exploration score, boldness, aggressiveness, dominance rank - previous work has revealed significant individual variation in most of these). Ultimately, we hypothesise that it will be possible to identify different male strategies and understand their coexistence.

We are seeking an independent and motivated team player to join our research group as a PhD stu-

dent in the Department of Animal and Plant Sciences at the University of Sheffield (www.shef.ac.uk/aps/-index.html). The Department has an outstanding reputation for research in ecology and evolution and provides an excellent intellectual environment for its research students. The fieldwork on scenic Lundy Island (UK) will take place 4 months each summer, and two week-long trips in winter, requiring a committed individual. Ideally, you will have previous research and fieldwork experience, and are interested in birds and evolutionary behavioural ecology. Experience in handling birds and/or a ringing licence would be an advantage. The graduate position is for 3 years, with a starting date as soon as possible after 1 March 2011. The studentship is fully funded (living costs plus fees) for EU citizens. Partial scholarships are available to applicants from outside the EU.

The supervisors are Professor Terry Burke, Dr Julia Schroeder (Sheffield University) and Dr Shinichi Nakagawa (Otago University, NZ). Please apply by sending your CV, including the email addresses of two academic referees, a letter of motivation and a one-page research proposal by 4 February 2011. For more information, please email julia.schroeder@sheffield.ac.uk.

julia.schroeder@gmail.com

UCambridge EvolutionPolarLife

NERC PhD studentship funded by NERC grant NE/1005803/1: Impact of global disturbances on the evolution of life in the polar regions during the early Cenozoic (PALEOPOLAR).

Supervisors: Dr Elizabeth Harper (Earth Sciences, University of Cambridge), Dr Jennifer Jackson (British Antarctic Survey) & Dr Alistair Crame (British Antarctic Survey)

Full studentship funding is limited to UK and some EU citizens. For more details see <http://www.nerc.ac.uk/-funding/available/postgrad/eligibility.asp> This PhD project forms part of a large, interdisciplinary research project to assess the impact of major global disturbances on marine and terrestrial ecosystems during the latest Cretaceous - early Cenozoic period of global warming. It is in turn part of the NERC Thematic Programme to investigate the Long-term Coevolution of Life and the Planet. The project aims to sequence DNA from a series of living Southern Ocean gastropod taxa and establish their time of origin and evolutionary

radiation; can ages obtained from a molecular analysis be matched with those indicated by the fossil record? Might a number of modern groups have originated in the Paleocene, or even earlier?

This PhD studentship will investigate the phylogenetic inter-relationships and patterns and timing of species divergence within selected gastropod taxa (initially neogastropods within the Buccinidae, Volutidae and Muricidae, but potentially extending to additional groups). Many Antarctic genera within these families have been collected during recent Antarctic cruises and are now available for analysis at BAS. Where taxonomic coverage at BAS is limited, the student will seek collaborative sample sharing with other institutions, including the New Zealand National Institute for Water and Atmospheric Research and the Australian Antarctic Division. The project will entail the extraction, PCR amplification and sequencing of Antarctic gastropods, in order to obtain multiple mitochondrial and nuclear loci for phylogenetic analysis. These will be aligned with data from existing studies of non-Antarctic taxa and analyzed using a variety of molecular phylogenetic approaches, including maximum likelihood, maximum parsimony and Bayesian methods, in order to establish the phylogenetic inter-relationships among these families. Maximum likelihood approaches will be used to evaluate genetic support for various hypotheses of evolutionary relationships; e.g., monophyly of Antarctic genera. A survey of the morphological characteristics of selected groups such as the buccinids will enable maximum parsimony reconstruction of relationships based on morphology and evaluation of the relative support for morphological and phylogenetic hypotheses of evolution within the various Antarctic groups. Taxa will then be chosen from the fossil record to provide multiple fossil constraints on the timeframe of the molecular phylogeny. Relaxed clock Bayesian divergence time estimation approaches will then be used to estimate species divergence times and diversification rates through time. Particular emphasis will be placed on correlating episodes of taxonomic diversification with the palaeoclimate record.

Candidates should have a background in the mainstream biological/palaeobiological sciences and be able to demonstrate a strong research interest in molecular evolutionary genetics. Experience at Honours or Masters level would be advantageous. Applicants should submit: a short expression of interest (max 2 pages), CV and the e-mail addresses of two referees.

Enquiries to: Dr Jennifer Jackson, British Antarctic Survey: jennifer.jackson@bas.ac.uk

Closing date for applications: 1st March 2011.

jacksonjennifera@googlemail.com

UCollegeLondon GeneticsEvolutionEnvironment

PhD opportunities are available in the Research Department of Genetics, Evolution and Environment at University College London.

Please visit <http://www.ucl.ac.uk/gee/jobs> for full information.

NERC-FUNDED PHD STUDENTSHIPS

3-year studentships funded by the Natural Environment Research Council are available within GEE to work on the following projects:

- Origins, maintenance and conservation of terrestrial vertebrate diversity of the Seychelles (Supervisors: Dr Julia Day, UCL, and Dr David Gower, Natural History Museum) - Evolutionary genetics of reproductive performance and consequences for sexual selection and sperm competition in female stalk-eyed flies (Supervisor: Prof Kevin Fowler) - Applying ecological theory to human bacterial communities (Supervisor: Dr David Murrell) - The evolution of phenotypic plasticity and differential gene expression (Supervisor: Dr Max Reuter) - Growth and development of sexual ornaments in stalk-eyed flies (Supervisor: Dr Hazel Smith) - Xenacoelomorpha and the evolution of simplicity (Supervisor: Prof Max Telford)

These projects will be subject to open departmental competition. Please also note NERC's ELIGIBILITY REQUIREMENTS: full studentships (stipend and tuition fees) are available only to UK citizens or EU nationals who have been resident in the UK for the three years prior to the start date (including time spent in education). UCL academic entry requirement applies (minimum BSc Hons Upper 2nd Class in a relevant subject).

To apply please send an email to the relevant supervisor(s) outlining your interest and experience, and including your CV and the contact details of two academic referees.

Application deadline - 23rd February 2011

UCL GRADUATE SCHOOL SCHOLARSHIPS

We invite applications from outstanding students for these highly competitive schemes. Candidates should

contact a potential supervisor to discuss projects (see the Research pages for details on our lines of research). Candidates can be of ANY NATIONALITY and country of residence, but must have an excellent background in a relevant biological science (first or high upper second class BSc degree, minimum). GEE will nominate two applicants to be considered for UCL's Research Scholarships schemes.

Please see this page (<http://www.ucl.ac.uk/-prospective-students/scholarships/graduate>) for details on the scheme.

Applications to be sent to Prof Kevin Fowler (k.fowler@ucl.ac.uk) or Dr Julia Day (j.day@ucl.ac.uk).

Closing date is 14th February 2011.

MRes/PhD PROGRAMMES AT UCL

The Department of Genetics, Evolution and Environment contributes to several MRes and PhD programmes, in particular the MRes in Biosciences and an MRes/PhD programme in Systems Biology.

Fully or partly funded studentships are available for these programmes, but both are also open to self-funded applicants.

Please find more details here: <http://www.ucl.ac.uk/-gee/teaching/postgraduate>

Max Reuter

Research Department of Genetics, Evolution and Environment Faculty of Life Sciences University College London 4 Stephenson Way London NW1 2HE, UK

Phone: +44-20-76795095 (internal 25095)

Lab: <http://www.homepages.ucl.ac.uk/~ucbtmre/-Labsite/> Department: <http://www.ucl.ac.uk/gee>

UExeter EvolutionarySystemsBiology

Evolutionary Systems Biology Phd projects available at the OSS Lab, University of Exeter. Note that these projects are in competition for funding with other projects based at the University of Exeter and the studentship will be awarded on the basis of merit..

The network level consequences of host-parasite arms

race <http://www.exeter.ac.uk/studying/funding/award/index.php?idd5> Information processing in the cell: evolution of cross-talk and pleiotropy in signalling <http://www.exeter.ac.uk/studying/funding/award/index.php?idf4> Evolution and design of metabolism <http://www.exeter.ac.uk/studying/funding/award/index.php?idc7> For informal enquiries contact Dr Orkun Soyer at O.S.Soyer@exeter.ac.uk

Orkun S. Soyer, PhD Lecturer in Systems Biology Engineering, Mathematics and Physical Sciences University of Exeter Tel: +44 (0)1392 723615 URL: <http://people.exeter.ac.uk/oss203/> "Soyer, Orkun" <O.S.Soyer@exeter.ac.uk>

UGuelph MarineInvertBarcoding

University of Guelph (with West Coast DFO Placement)

We are seeking a Ph.D. student with an interest in applied evolutionary genetics and taxonomy to conduct a DNA barcoding study on marine invertebrates as part of a larger set of multi-disciplinary studies on aquatic invasive species. The current project is a collaborative one involving researchers at University of Guelph, Fisheries and Oceans Canada, and University of Windsor.

Many global invaders are marine invertebrates such as crustaceans, molluscs and ascidians that often present numerous taxonomic challenges, especially in early life history stages. DNA barcoding has been identified as a robust, generic method that could serve as an international standard for the identification of aquatic invasive species on a global scale as it has practical advantages over classical taxonomic methods. However, its utility for this purpose needs to be validated - especially when invaders and co-occurring native species are very similar - and its usefulness is a function of the availability of validated DNA barcoding datasets, hence appropriate investment in initial identification of material to be sequenced is vital.

The successful candidate will apply DNA barcoding methods using the mitochondrial cytochrome c oxidase I (COI) gene to generate essential baseline data to then evaluate the utility of this approach for invasive species identification and detection. They will also generate molecular phylogenies based on multiple genetic nuclear markers where needed to resolve taxonomic uncertainties of important marine invaders.

Work will be conducted in close collaboration with the Government of Canada - Department of Fisheries and Oceans Canada (DFO), to the extent that the successful candidate will be based at the Pacific Biological Station in Nanaimo, B.C. for a substantial part of their studentship.

Stipend funding is available at NSERC rates. Canadian citizens and Permanent Residents are preferred as there are no project funds for international student fees. The project start date is to be between May 2011 and Jan 2012. To be considered for this position please send your CV, a summary of your research interests and experience, contact details, and at least two references to cathryn.abbott@dfo-mpo.gc.ca.

Cathryn Abbott, Ph.D. Research Scientist Aquatic Animal Health Fisheries and Oceans Canada Pacific Biological Station 3190 Hammond Bay Road Nanaimo, BC, V9T 6N7 Canada Telephone: +1 250 756 3364 FAX: +1 250 756 7053 cathryn.abbott@dfo-mpo.gc.ca

"Abbott, Cathryn" <Cathryn.Abbott@dfo-mpo.gc.ca>

ULeipzig MolecularPrimateEvolution

2 PhD positions in Molecular Primate Evolution:

In the group of Katja Nowick, "TFome and Transcriptome Evolution", located at the Interdisciplinary Center for Bioinformatics and the Paul-Flechsig-Institute for Brain Research in Leipzig, Germany, are two PhD positions available.

The positions are initially for three years and are open to students holding a Master's or comparable degree in Biology, Bioinformatics or related research field.

Our group studies the molecular evolution of primates. We are especially interested in the impact of transcription factors on differences in transcriptomes, gene regulatory networks, and the phenotype. We are using experimental as well as computational approaches to investigate the evolution of primate transcription factors. Both PhD projects will take advantage of latest cell and molecular biological methods, next generation sequencing, comparative genomics, and phylogenetics. More information about our group can be found here: www.nowick-lab.info. We are looking for highly motivated students with commitment and team spirit, who enjoy innovative research. Practical experience in cell,

molecular, evolutionary biology, and/or bioinformatics is a plus. Good English language skills are essential. We offer an interdisciplinary, scientifically inspiring research atmosphere, a well equipped laboratory, an exciting and diverse research topic, and the opportunity for international collaborations.

The city of Leipzig hosts an extensive and dynamic scientific landscape, including, among others, three Max-Planck-Institutes and two Fraunhofer Institutes, which collaborate with the local university. It is very modern with many students, international flair, established cultural scene, many parks, exciting night life, and only one hour away from Berlin.

Please send your application including the names and addresses of two referees to:

Katja Nowick Universität Leipzig Bioinformatik Härtelstr. 16-18, Raum 313 04107 Leipzig

Or per Email to: nowick@bioinf.uni-leipzig.de

– Dr. Katja Nowick

Group Leader “TFome and Transcriptome Evolution” www.nowick-lab.info Universität Leipzig Härtelstrasse 16-18 04107 Leipzig Germany Phone: +49 341 97-16684 Fax: +49 341 97-16679

UMuenster HostPathogens

Graduate position: WWU-Muenster (Germany) V Stochiogenomics of host-pathogen interactions

We invite applications for a joint PhD position in the groups of Evolutionary Functional Genomics, and Animal Evolutionary Ecology at the Institute for Evolution and Biodiversity, University of Muenster, Germany (<http://ieb.uni-muenster.de/>).

We are seeking highly motivated students with a background in evolution, molecular biology, microbiology, or bioinformatics. Successful candidates will work in the fields of molecular evolution, host-parasite co-evolution, and genomics, combining experimental evolution and computational approaches. The project will focus on the relationship between environmental nutrient availability and evolutionary change, using pathogenic bacteria and *Tribolium castaneum* as model organisms. Experience with programming and/or molecular techniques is advantageous. Working language of the lab is English.

Muenster hosts many excellent scientific institutions and is a dynamic city with a high number of students and a rich choice of social, cultural and sporting facilities (see <http://www.muenster.de/en/> for further details).

Application review will begin on 28th February 2011. Applicants should send a single pdf file, containing statement of research interests, CV, list of publications, and the contact information of two referees, to Claudia Acquisti.

Claudia Acquisti Evolutionary Functional Genomics Institute for Evolution and Biodiversity University of Muenster Huefferstr. 1, DE-48149 Muenster, Germany E-mail: Claudia.Acquisti@uni-muenster.de Tel. +49 251 83 21 089

claudia.acquisti@uni-muenster.de

UNottingham EvolutionaryBiol

Generous funding is available on a competitive basis (UK or EU students only) for a PhD position to start in 2011.

‘Evolution and development of asymmetry’/‘Evolution of colour polymorphism’

We are applying next generation sequencing methods to investigate two fascinating and long-standing problems in evolutionary and developmental biology. In one BBSRC funded project, we are using the pond snail *Lymnaea stagnalis* as a model to understand the evolution and development of left-right asymmetry. In another study, we are interested in how the conspicuous colour polymorphisms of land snails evolved, a question that relates to the much wider issue of how the genome responds to disruptive or balancing selection. To achieve these aims, we have generated data sets made up of Illumina (GAI) RAD genotyping runs (see Baird NA et al. 2008) and 454 transcriptome studies.

I am seeking a student who will use bioinformatic and/or wet lab experimental work to further understand the left-right asymmetry and/or colour polymorphism. The exact project is to be determined and will depend upon the interests of the student and the state-of-play when the student begins their research. Applicants should have a good degree in a relevant subject, and an interest and enthusiasm for evolution. Although enquiries from overseas are welcome, please note that the competitive studentship is available to EU students

only (UK = fees and living allowance; EU fees only)

In the first instance, prospective students should send a CV and an indication of general area of interest to Dr. Angus Davison, School of Biology, University of Nottingham (angus.davison@nottingham.ac.uk).

– Dr. Angus Davison School of Biology University Park University of Nottingham NG7 2RD

0115 8230322 angus.davison@nottingham.ac.uk
www.molluscs.org Angus.Davison@nottingham.ac.uk

UPotsdam PlanktonAdaptation

PhD position at the University of Potsdam

The Department of Ecology and Ecosystem Modeling performs ecological research on aquatic communities that respond to the sudden and gradual impacts of global change.

We presently offer a PhD position in the project:

Warm and fragile: Temperature and vulnerability to extinction in pelagic food webs

for experimental work on the effects of elevated temperatures on recovering plankton communities. This work is part of a larger DFG-funded project that combines both theoretical and empirical research.

Project description Our overarching goal is to explain which mechanisms support the recovery of disturbed communities, and which mechanisms may prevent it, in a context of global warming. You will perform experiments at different temperatures that involve grazing, predation, competition and re-introductions of species that were lost from the system. You will work with both temperate and (sub-)tropical plankton species in communities of varying complexity.

Requirements You are a highly motivated ecologist, holding a Diplom or Masters degree in plankton ecology or community ecology. You have a keen interest in major ecological concepts and in working together with theoreticians that approach the project's questions with mathematical models. The ideal candidate has above-average study marks, good quantitative and analytical capabilities, excellent interpersonal and communication skills, a strong sense of determination to succeed, and is easily able to express his or her ideas in English writing. Some control of the German language is welcome but not essential.

Appointment This is a temporary appointment for 3 years, on a 50-75% EG 13 TvöD-O position. The position will be filled as soon as possible.

Location The University of Potsdam and the Department offer excellent facilities for research in ecology. The department is beautifully situated in Sanssouci Park, a UNESCO World Heritage Site. Potsdam offers a high-quality living environment and is close and well-connected to Berlin.

For more information: please contact Dr Matthijs Vos, Phone: +49 (0)331-1977-1953, e-mail: mattvos@uni-potsdam.de

Application Please send your application letter outlining your suitability and motivation, plus complete curriculum vitae including degree certificates with marks by e-mail to Dr. Matthijs Vos (mattvos@uni-potsdam.de). Selection starts immediately and closes as soon as we find a well-qualified candidate.

Matt Vos <mattvos@uni-potsdam.de>

UTurku TelomereEvolution

Two PhD-student positions for four years in wild house mouse telomere/biological aging research group

The Wild House Mouse Telomere Research Group is searching for two excellent PhD-students to participate in investigating the genetic and life-stress impacts on telomere length and telomere dynamics in wild-derived house mice, and the consequent effects on individuals' health, fitness and life-span. The project is highly interdisciplinary, combining molecular genetics with experimental evolutionary ecology approach.

The project is based at the Division of Genetics and Physiology, University of Turku, but includes also collaborative research with Prof. Dustin J. Penn's group at the Konrad Lorenz Institute for Ethology in Vienna, Austria. The successful candidates are expected to be highly motivated and to have keen interest on evolutionary ecology and genetics research and learning to understand the mechanistic bases of organismal senescence and life-history trade-offs. Experience on basic genetic lab protocols is an asset. In particular, previous experience on real-time q-PCR and gene expression studies is an advantage, but not an absolute necessity.

Applications are considered until the positions are filled. The first PhD-student position will be filled

starting from February 2011 and the second one from July 2011. The salary is University of Turku level 2 (ca. 2200 euro/month, depending on experience and performance) and the initial contracts are for 4 years with 4-month trial periods. Please send your application by email (peilmo@utu.fi) including (1) a brief summary of undergraduate project(s), (2) a list of publications (if available) with links to each paper, (3) contact details for at least two references, and (4) a short description of your specific motivation to join the group.

For further details of the project please contact:

Dr. Petteri Ilmonen Division of Genetics and Physiology Department of Biology 20014 University of Turku Finland E-mail: peilmo@utu.fi Tel: + 358 445959148

UWarwick ResistanceEvolution

Two fully-funded BBSRC CASE PhD studentships are available within the School of Life Sciences, University of Warwick, UK to work in the area of evolution of management of plant resistance to herbicides. You would join an expanding group of PhD and postdoctoral researchers with interests spanning evolutionary ecology, experimental evolution and modelling. Our research seeks to understand plant adaptation in agricultural ecosystems.

1. Exploring risks of evolution of resistance to the herbicide glyphosate in UK weedy plants.

http://www2.warwick.ac.uk/fac/sci/lifesciencephd/-phd_projects/neve2/ 2. Integrating modelling and molecular approaches to inform the evolution and management of resistance to herbicides in *Alopecurus myosuroides*

http://www2.warwick.ac.uk/fac/sci/lifesciencephd/-phd_projects/neve1/

Both PhDs are open to all UK residents according to BBSRC eligibility requirements. For informal enquiries or to discuss the projects further please contact Dr Paul Neve (p.neve@warwick.ac.uk)

Dr Paul Neve School of Life Sciences University of Warwick Wellesbourne Warwickshire CV35 9EF

Tel: +44 2476 575843 Fax: +44 2476 574500

“Neve, Paul” <P.Neve@warwick.ac.uk>

UWyoming SpeciesMicroEvolution

Graduate Assistantship available in Landscape Genetics at University of Wyoming My lab is interested in understanding fine-scale distribution, functional connectivity, and micro-evolution of species in a spatial context. I will be taking at least one graduate student to study distribution, functional connectivity and landscape change in semi-arid ecosystems. Prospective students with a background in ecology, natural resources, and/or population genetics are encouraged to apply. Evidence of robust quantitative/analytical skills (including spatial modeling), strong work ethic, passion for investigating scientific questions, ability to work under harsh field conditions and collaborative skills will all be vital for the success of potential candidates. PhD students will have the opportunity to participate in the interdisciplinary Program in Ecology (PiE; www.uwyo.edu/pie). I am accepting applications from prospective MS and PhD students to start a graduate program in August 2011. Preference will be given to students interested in a PhD program with a MS and/or other evidence of previous research experience. Applications should be submitted by Jan. 25, 2011 (early application is strongly encouraged as review of applications will begin immediately). Applications should include: cover letter with statement of research interests, CV, transcripts, and GRE scores. The packet can be sent as a pdf attachment to Dr. Melanie Murphy (melanie.murphy@uwyo.edu). In addition, please have three references send letters to the same e-mail address. Also follow the direction for applications to the PhD interdisciplinary Program in Ecology (www.uwyo.edu/pie) and Department of Renewable Resources (<http://www.uwyo.edu/renewable/info.asp?p=22152>). University of Wyoming is ideally located in Laramie, Wyoming with easy access to varied field sites and outdoor recreation opportunities. In addition, the campus is only 1 hour from Fort Collins and 2 hours from Denver, CO.

Melanie Murphy, PhD Assistant Professor Renewable Resources, Ag. 2010 University of Wyoming Dept. 3354 1000 E University Ave. Laramie, WY 82071 (307) 766-5295 melanie.murphy@uwyo.edu

“Melanie A. Murphy” <mmurph23@uwyo.edu>

Florian Schiestl <florian.schiestl@systbot.uzh.ch>

UZurich FlowerEvolution

PhD position in plant ecology and evolution

A 3 year PhD positions funded by the European Science Foundation (ESF) is available from April 2011 at the Institute of Systematic Botany, University of Zürich, to study the evolution of floral signalling in plants under selection by herbivores and pollinators. The project deals with the signalling dilemma of plants, i.e. the need to defend reproductive structures against herbivores on the one hand, but at the same time attracting pollinators to the flowers. You should have a master degree (or equivalent) in any field of biology/ecology and a thorough interest in evolutionary ecology/chemical ecology/molecular biology. Further, enthusiasm for experimental work with plants, insects, as well as analyses of plant volatiles by GC-MS is required. The project is embedded in a corporative research project with collaborators in a range of European countries (Switzerland, Netherlands, Sweden, Italy, Czech Republik), and close collaboration with these other labs is expected within this project. The Institute of Systematic Botany at the University of Zürich, where the work will be based, consists of 3 professors and 6 academic staff, as well as several PostDocs, PhDs, and Master students. The main overall research topic of our institute is mechanisms and patterns of evolution in plants. The institute is located in the pretty botanical gardens and houses modern molecular and chemical ecology labs, including greenhouses and climate chambers for plant cultivation.

Zürich has a large and very active research community at the University of Zürich (www.unizh.ch) and ETH (www.ethz.ch), dealing with various aspects of organismal and molecular biology (www.lifescience-zurich.ch). The city also offers excellent quality of life through active cultural programs and infrastructure, as well as an attractive surrounding.

If you are interested, please send (preferentially by e-mail) a letter describing your motivation, C.V., copy of degrees, publications (manuscripts) if any, and e-mail addresses of two academic referees, by 15th of February 2011. If you have further question, don't hesitate to contact me.

Prof. Florian Schiestl Institute of Systematic Botany
Zollikerstrasse 107 CH-8008 Zürich

florian.schiestl@systbot.uzh.ch

VrijeU Netherlands EvolutionOfLearning

PhD student in Evolutionary Ecology (f/m)

The department of Animal Ecology, Vrije Universiteit Amsterdam, The Netherlands has a PhD position available for the project:

“Evolution of learning rate in parasitoid insects”

Insects are excellent learners, but it is unclear if learning behaviour evolves independently for each different learning context. This project studies learning rate of parasitic wasps which use olfactory and visual cues to find hosts and food. The two most important questions are if the rate of learning is correlated between learning with different cues and rewards, and are there common genetic mechanisms underlying learning in different contexts. Experimental work will include sequence and expression analysis of candidate genes involved in learning processes, selection experiments and behavioural assays. The research will be carried out at the VU University in Amsterdam, in collaboration with the Netherlands Institute of Ecology (NIOO-KNAW) in Wageningen. This project is funded by the Netherlands Organization for Scientific Research (NWO-ALW) awarded to prof. dr. Jacintha Ellers.

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

Required skills and education - MSc degree in Biology, preferably with advanced courses in animal ecology, evolutionary biology, molecular biology, and animal behaviour, or equivalent. - Proficiency in both written and spoken English. - Excellent social skills, ability to work independently and high motivation will be assets.

Details The initial appointment will be for a period of 1 year. After satisfactory evaluation of the initial appointment, it can be extended for a total duration of 4 years. This period has to result in a written thesis. You can find information about our excellent fringe benefits of employment at www.workingatvu.nl Salary The

salary will be in accordance with university regulations for academic personnel, and amounts 2.042,- gross per month in the first year up to 2.612,- in the fourth year (salary scale 8.5) based on a full-time employment.

Information and applications Upon request, applicants can obtain the complete project description from DÃ©sirÃ©e Hoonhout (tel. +31 20 5987004; desiree.hoonhout@falw.vu.nl). Further information can be obtained from Prof. Dr. J. Ellers (tel. +31 20 5987076; jacintha.ellers@falw.vu.nl). Please, send your application, including your expression of interest (with

a brief statement of your personal research aims and interests), a detailed resume, and two reference names before January 30th, 2011 addressed to Prof. Dr. B. Oudega, Dean Faculty of Earth & Life Sciences, Vrije Universiteit. You may also send your application by e-mail at: falw-vacatures@falw.vu.nl.

Please mention the vacancy number 1.2010.00338 in the e-mail header or at the top of your letter and on the envelope.

Jacintha Ellers <jacintha.ellers@falw.vu.nl> Jacintha Ellers <jacintha.ellers@falw.vu.nl>

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The American Museum of Natural History seeks an outstanding scientist at the Assistant Curator & Professor level who will conduct research on the comparative biology of microorganisms, broadly defined to include bacteria, archaea and microbial eukaryotes. Applicants should demonstrate an established record of publication and extramural funding in areas of microbial taxonomy, phylogenetics, and evolution. The successful candidate will be expected to participate in the teaching of graduate courses in the Comparative Biology Ph.D. program at the Richard Gilder Graduate School at the AMNH. Candidates should have completed their Ph.D. degrees and postdoctoral experience is desired.

Interested candidates should electronically submit their application via a single email message sent to microbialsearch@amnh.org by February 4, 2011. Attached to this email, please include: (1) a curriculum vitae; (2) a statement describing your research program and goals and how you envision contributing to the curriculum of the graduate school; (3) PDF files of up to five recent publications; and (4) the names and contact information for three referees.

The American Museum of Natural History is one of the world's preeminent scientific and cultural institutions. Since its founding in 1869, the Museum has advanced its global mission to discover, interpret and disseminate information about human cultures, the natural world and the universe through a wide-ranging program of scientific research, education and exhibition.

The American Museum of Natural History is an Equal Opportunity/ Affirmative Action Employer. The Museum encourages women, minorities, persons with disabilities, Vietnam-era and disabled veterans to apply. The Museum does not discriminate due to age, sex, religion, race, color, national origin, disability, marital status, veteran status, sexual orientation, or any other factor prohibited by law.

If special accommodations are needed in applying for this position, please contact the Office of Human Resources at hrdesk@amnh.org or 212-768-5108.

– Susan L. Perkins, Ph.D. Associate Curator, Microbial Genomics & Systematics Sackler Institute for Comparative Genomics Division of Invertebrate Zoology American Museum of Natural History Central Park West at 79th St. New York, NY 10024 Phone: 212-313-7646 Fax: 212-769-5277 Web: <http://malaria.amnh.org> Susan Perkins <perkins@amnh.org>

AmericanMusNatHist MicrobialSystematics 2

Reminder - Applications are due February 4th, 2011. See details below.

The American Museum of Natural History seeks an outstanding scientist at the Assistant Curator & Professor level who will conduct research on the comparative biology of microorganisms, broadly defined to include bacteria, archaea and microbial eukaryotes. Applicants should demonstrate an established record of publication and extramural funding in areas of microbial taxonomy, phylogenetics, and evolution. The successful candidate will be expected to participate in the teaching of graduate courses in the Comparative Biology Ph.D. program at the Richard Gilder Graduate School at the AMNH. Candidates should have completed their Ph.D. degrees and postdoctoral experience is desired.

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The American Museum of Natural History is an Equal Opportunity/ Affirmative Action Employer. The Museum encourages women, minorities, persons with disabilities, Vietnam-era and disabled veterans to apply. The Museum does not discriminate due to age, sex, religion, race, color, national origin, disability, marital status, veteran status, sexual orientation, or any other factor prohibited by law.

If special accommodations are needed in applying for this position, please contact the Office of Human Resources at hrdesk@amnh.org or 212-768-5108.

Susan Perkins <perkins@amnh.org>

Bergen FishEvolution

Postdoctoral Researcher: Comparative Studies of Cell Lineage and Gene Expression in Marine Animal Systems

The Sars International Centre is a partner of the European Molecular Biology Laboratory (EMBL) and a department of Uni Research AS, affiliated with the University of Bergen. The Centre is focused on basic research in marine molecular biology, developmental biology and evolution, through genetic and comparative studies of invertebrates and vertebrates.

The Comparative Developmental Biology of Animals research group (Group Leader Andreas Hejnol) is now offering one postdoctoral position for two years. The group is interested in the evolution of cell types and organ systems and studies the development of different invertebrate taxa at the cellular and molecular level. Research in the group combines the use of advanced microscopical techniques with molecular approaches in diverse marine organisms.

The position involves the investigation of the development and cell lineage of a broad range of marine and freshwater animals such as e.g. polyclad flatworms, bryozoans, rotifers, brachiopods, gastrotrichs, priapulids, nemerteans, acoelomorphs, polychaete annelids and molluscs by combining advanced microscopic (4D microscopy, CSLM) and molecular tools. These studies will include the analysis of gene expression patterns of important developmental candidate genes for cell type and organ system development including functional approaches. The research project will be adjusted to the candidates interest and prior experience.

Applicants should have a strong interest in evolutionary developmental biology and a solid background in zoology and embryology/developmental biology. Prior experience with molecular methods is necessary and previous experience with advanced microscopical methods is desired.

The position is available immediately; the start date is negotiable.

The salary for Postdoctoral Researchers (code 8151) starts at NOK 447.178.

Uni Research has employee insurance and pension agreements and is an equal opportunity employer. For

further information regarding the position and scientific content of the project please contact Dr. Andreas Hejnol, Group Leader: andreas.hejnol@sars.uib.no.

Written application, in English, should include a C.V., a summary of educational and work experience, a brief statement of research interest and contact information for two references. Please mark application 11 Sars 01 and mail to: Head of Administration, Sars Centre, Bergen High Technology Centre, Thormøhlensgt. 55, N-5008 Bergen, Norway. Deadline for applications is 18 February 2011.

Please note that applications sent by e-mail will not be considered.

Andreas Hejnol, Group Leader Sars International Centre for Marine Molecular Biology Thormøhlensgate 55 NO-5008 Bergen NORWAY

Phone: +47 55 58 43 28 Fax: +47 55 58 43 05 email: andreas.hejnol@sars.uib.no

<http://www.sars.no/research/HejnolGrp.php> Open Access Journal "EvoDevo" <http://evodevojournal.com> andreas.hejnol@sars.uib.no

ChicagoBotanicGardens SummerREU PlantConservation

REU positions at the Chicago Botanic Garden

Plant Biology & Conservation Research Experiences for Undergraduates - >From Genes to Ecosystems

The Chicago Botanic Garden is now accepting applications for summer 2011 REU positions. Descriptions of projects and application instructions are available at <http://labs.corpus-callosum.com/cbg/Index.html>. The deadline for applications is January 31. Please note that positions are contingent on renewal of funding.

Questions can be sent to cone-flower@chicagobotanic.org

nzerega@chicagobotanic.org

ChicagoBotanicGarden SummerRes PlantEvolution

Summer field research internships

Are you interested in gaining field research experience and learning about the ecology and evolution of plants and plant-animal interactions in fragmented prairie? We are looking for 3-5 summer field researchers for an NSF-funded project on habitat fragmentation of the tallgrass prairie. We are investigating how small plant population size influences inbreeding, demography, pollination, and herbivory in the purple coneflower, *Echinacea angustifolia*. This is a great summer internship, REU, or co-op for those interested in field biology or conservation research.

No experience is necessary, but you must be enthusiastic and hard-working. You will survey natural plant populations, measure plant traits in experimental plots, hand-pollinate plants, observe & collect insects, and assist in all aspects of research. Housing is provided and there is a stipend. Undergraduate students have the opportunity to do an independent project as an REU participant.

If you want more information or wish to apply, please visit this website <http://echinacea.umn.edu/> or contact Stuart Wagenius. Applications will be reviewed starting 28 February 2011.

Stuart Wagenius, Ph.D. Conservation Scientist Division of Plant Science and Conservation Chicago Botanic Garden 1000 Lake Cook Road Glencoe, IL 60022 phone: 847 835 6978 fax: 847 835 6975

email: echinaceaProject@gmail.com web: <http://echinacea.umn.edu/> SWagenius@chicagobotanic.org

Dexter Fish Wildlife Service Evolutionary Genetics

The Dexter National Fish Hatchery and Technology Center is seeking applicants for the Molecular Ecology Program with experience in conservation genetics, evolutionary genetics or population genetics. New hiring practices minimize the time a vacancy is open, so we are actively soliciting applicants! The deadline is January 12, so apply quickly!!

The following position is now open through the USAJobs website, please click on the link below to view/print the full vacancy announcement:

Interdisciplinary GS-0401/0482-9/11 Dexter National Fish Hatchery & Technology Center Dexter, NM

TERM nte 13 months (but renewable for 4 years) Open: 12/30/10 Close: 01/12/11

THERE ARE A TOTAL OF 4 LINKS TO THE SAME ANNOUNCEMENT, APPLICANTS WILL CHOOSE THE SERIES ONCE THEY APPLY

R2-11-422406-CI-MP (Status Applicants) [http://jobview.usajobs.gov/GetJob.aspx?JobID=95162524&JobTitle=Interdisciplinary+\(Genetics\)&lid=536&sort=rv%2c-dtex&rad_units=miles&brd=3876&pp=25&qt=default&jbf574=IN1512-30+11%3a18%3a00](http://jobview.usajobs.gov/GetJob.aspx?JobID=95162524&JobTitle=Interdisciplinary+(Genetics)&lid=536&sort=rv%2c-dtex&rad_units=miles&brd=3876&pp=25&qt=default&jbf574=IN1512-30+11%3a18%3a00)

R2-11-422398-CI-DEU (General Public Applicants) [http://jobview.usajobs.gov/GetJob.aspx?JobID=95162512&JobTitle=Interdisciplinary+\(Genetics\)&lid=536&sort=rv%2c-dtex&rad_units=miles&brd=3876&pp=25&qt=default&jbf574=IN1512-30+11%3a18%3a00](http://jobview.usajobs.gov/GetJob.aspx?JobID=95162512&JobTitle=Interdisciplinary+(Genetics)&lid=536&sort=rv%2c-dtex&rad_units=miles&brd=3876&pp=25&qt=default&jbf574=IN1512-30+11%3a18%3a00)

Connie_KeelerFoster@fws.gov

Dijon France Evolutionary Biology

Evolution, Morphology, Evolutionary Biology, Paleontology

The Ecole Pratique des Hautes Etudes (EPHE) opens a « Maître de conférences » position (permanent position of Assistant Professor) at the « Paléobiodiversité & Evolution » lab, part of Biogéosciences unit (UMR CNRS) in Dijon (Burgundy, France).

Candidates are expected to develop a research program on the study of mechanisms leading to the emergence of particular phenotypes by favoring multi-scale approaches from the microevolutionary level (function, adaptation) up to the macroevolutionary level (historic contingency). The understanding of complex biological systems can be now approached through the concept of shape modularity and integration providing a relevant link between developmental processes and evolution.

The position concerns either a paleontologist or an evolutionary biologist (ecology, population biology) considering his(her) project at the interface between micro and macro-evolutionary researches. Solid knowledge in morphometry and statistics are expected.

Teaching program will include Evolution, Morphometry, Paleontology courses, in particular in the Master BSE (Biologie Santé Ecologie) of the Ecole Pratique des Hautes Etudes and in the lectures given in

Paléobiodiversité & Evolution lab in Dijon.

The review process will be held in Spring 2011, and the position will begin end of 2011 (pending final decision of French Academy of Sciences). The official announcement and the list of requested items for formal application will be posted later on at the EPHE web site (<http://www.ephe.sorbonne.fr/>). At the moment, provide only a CV (including teaching experience and publications) and a letter of interest to Sophie Montuire.

Contact : Dr. S. Montuire (head of the Paléobiodiversité & Evolution » lab or Dr. M. Veuille (head of the Life and Earth Sciences Section of EPHE).

Sophie.Montuire@u-bourgogne.fr Tél : +33 (0)3.80.39.63.47 <http://www.u-bourgogne.fr/-BIOGEOSCIENCE/> <http://www.ephe.sorbonne.fr>
 veuille@ephe.sorbonne.fr/veuille @mnhn.fr Tél : +33 (0)1.53.63.61.65/66

Dr. Sophie Montuire EPHE & UMR CNRS 5561 Biogéosciences Université de Bourgogne 6 Bld Gabriel 21000 Dijon Tél.: 33. (0)3.80.39.63.47 Fax : 33. (0)3.80.39.63.87 Sophie.Montuire@u-bourgogne.fr <http://www.u-bourgogne.fr/BIOGEOSCIENCE/> <http://www.ephe.sorbonne.fr> Paleontological database <http://transtyfipal.u-bourgogne.fr/> Sophie Montuire <Sophie.Montuire@u-bourgogne.fr>

Donana Spain Bioinformatics

Donana Biological Station, Spain (EBD-CSIC). Bioinformatics position available.

We are seeking to hire an experienced bioinformatician with a PhD in Science or Technology, under the 7th Framework Programme- European Project ECOGENES "Adapting to Global Change in the Mediterranean hotspot: from genes to ecosystems".

The characteristics of the offered position, the scientist responsible, and the candidate's profiles can be consulted in: <http://www.ebd.csic.es/ecogenes/news.html>

Duration of the position is 30 months, starting tentatively in April or May 2011. Successful candidate will be fully participating members of the relevant Department at Donana Biological Station; he/she will be expected to participate in running projects, fundraising as well as dissemination and support in his/her area of expertise.

Interested candidates can contact the project coordinator, Juan Jose Negro: coordinacion@ebd.csic.es, and send him before January 24th 2011, in advance of the official application process: a cover letter, a curriculum vitae, and a short (1-3 pages) description of past research accomplishments and future research plans.

Bego??a Arrizabalaga <bego@ebd.csic.es>

DukeNUS Singapore ResAssoc VirusEvolution

06 January 2010

Duke-NUS Graduate Medical School Singapore

Research Associate in Statistical Genetics (Code: Research / EID)

The Laboratory of Virus Evolution (LoVE), led by Associate Professor Gavin Smith (gavin.smith@duke-nus.edu.sg), focuses on the ecology, genetic and antigenic evolution, population dynamics, and molecular epidemiology of emerging infectious diseases.

Applications are invited for a Research Associate in Statistical Genetics to work on projects making use of the latest in sequencing and microarray technology. Applicants should have an MSc or PhD (or equivalent) in statistical genetics, statistics, mathematics, computer sciences or another science with a significant quantitative component.

Duties include providing support for LoVE staff in data management and analysis of studies involving bioinformatics and statistical genetics of viral genome sequences generated from global disease surveillance.

Applicants should have an understanding of modern statistical and computational approaches, preferably with the ability to apply these within a biological context. Excellent programming and computational skills are essential, ideally using a statistical programming environment such as R. Ability to program using JAVA and C/C++ is also advantageous and experience in handling large datasets is desirable. A good knowledge of molecular biology or genetics is desirable.

The successful candidate will be exposed to a broad range of evolutionary, epidemiological and virological methodologies and data types in collaboration with research scientists, clinicians and veterinarians.

An updated CV with all accepted and/or submitted

publications are requested. Only shortlisted candidates will be notified.

Information on how to apply and application forms are available from http://www.duke-nus.edu.sg/web/-jobs_how_to_apply.htm gavin.smith@duke-nus.edu.sg

DukeU FieldAssist PlantEvolution

Field research opportunity in the northern Rockies

The Mitchell-Olds lab at Duke University seeks a highly motivated, detail-oriented assistant for field research in the northern Rocky Mountains. We are studying *Boechera*, a perennial herb that offers genetic tractability and ecological context. Current field experiments focus on questions related to local adaptation, speciation, plant defense, and breeding systems.

Our research sites are located in east-central Idaho and southwest Montana. Base camp is located near the beautiful town of Salmon, but travel distances between sites often necessitate overnight camping. Weather conditions in the Rockies can be severe, and assistants should expect to work in snow and rain as well as 90 degree temperatures. Regular trips are made to Missoula, Montana for groceries, supplies, and taco consumption.

Applicants must be available throughout the field season from mid-May or early June through mid-August, but exact start and end dates are flexible. Successful applicants are expected to assist in data collection and data entry, plant care, transplanting, seed collection, and driving research vehicles. The work can be physically demanding, and the research team usually collects data 5-6 days per week. Qualifications: 1) some undergraduate education in biology, ecology, or related field, or equivalent experience; 2) experience camping and working outdoors and/or previous field research experience; 3) ability to perform repetitive tasks with a cheerful attitude and with attention to detail; 4) willingness to live and work in close proximity with six other researchers under rustic and sometimes crowded conditions; 5) a current driver's license. Previous experience working with plants is preferable but not required. Transportation, room with internet access, and salary will be provided.

Interested applicants should submit: 1) a short cover letter describing their qualifications as well as future academic and professional goals; 2) a résumé outlining previous work experience, relevant courses (completed

or in progress), extracurricular activities; and 3) contact information of two character references. Email to:

Tom Mitchell-Olds tmo1@duke.edu Department of Biology, Duke University <http://www.biology.duke.edu/-mitchell-olds/> catherine.rushworth@gmail.com

DukeU ResTech PlantEvolution

Research Technician, Biology Department, Duke University:

Duke University, Biology Department, Research Technician (Associate in Research)

A research technician is wanted to participate in research in evolutionary ecology and genetics of plants. Recent university graduates looking for additional research experience before entering graduate school are especially encouraged to apply. Research in this lab combines work in the field, laboratory, and greenhouse to study genotype-environment interactions. This position requires a bachelors degree in Biology or related field, experience in plant care, impeccable organizational skills, and familiarity with basic molecular biology procedures. Duties include plant care, molecular and biochemical work; maintenance of field/greenhouse experiments, data management, general lab and clerical tasks. Available immediately. Currently for one year. Competitive salary and full Duke benefits. Duke University is an Equal Opportunity/Affirmative Action employer.

Please send CV and names of references to Kathleen Donohue: k.donohue@duke.edu

DEADLINE FOR CONSIDERATION: JANUARY 31, 2011

Kathleen Donohue Associate Professor Department of Biology Duke University Box 90338 Durham, NC 27708 USA

Office: 919 613-7467 Lab: 919 613-7468 Fax: 919-660-7293 k.donohue@duke.edu

Kathleen Donohue <k.donohue@duke.edu>

ETHZurich Bioinformatics Scientist

The Genetic Diversity Center at ETH Zurich (Switzerland) has an opening for a

Bioinformatics Scientist

The Genetic Diversity Center < <http://www.gdc.ethz.ch> > is a newly established knowledge and technology platform that provides scientific and technical support for all research related to genetic diversity in natural and managed populations of a wide range of organisms. One of the key aims of the GDC is to give research groups at ETH Zurich and their collaborations access to up-to-date methods for genotyping populations and processing large sample sizes, e.g. with next-generation sequencing technologies, SNP genotyping, or gene expression analysis.

The new methodologies provide many scientific challenges and place a high demand on processing, storing and interpreting genetic data. We therefore seek an innovative person who will be responsible for providing bioinformatics support for GDC, e.g. to handle the processing and analysis of sequence and other genetic data for the study of natural populations. The GDC provides an excellent opportunity for collaboration across a wide cross-section of interests and organisms. In this role, he/she will also be involved in data interpretation and joint publication of the results.

The ideal candidate will have a PhD in bioinformatics or related field, or be a biologist with a strong background in informatics, bioinformatic programming/scripting skills, experience with next generation sequence analysis (454, SOLID, Solexa) and a strong interest in the biological questions asked by the users. He/she is motivated to work in a team and enjoys supporting the users of the Genetic Diversity Center in their research projects.

The position is initially limited to 2 years and is available starting March 2011. The working language of GDC and the user laboratories is English. Screening of applications will start 7 February 2011 and continue until the post is filled. Please send your application to ETH Zürich, Genetic Diversity Centre, Dr. Stefan Zoller, Universitätstrasse 16, 8092 Zürich, Switzerland. Electronic applications are preferred (send your email to stefan.zoller@env.ethz.ch). For further information also contact Dr. Stefan Zoller or see the webpage www.gdc.ethz.ch.

BACKGROUND:

Genoscope, a dynamic non-profit scientific research organization dedicated to the advancement of environmental genomics, is seeking a talented computational biologist to contribute to exciting environment-related research within the metagenomics and metabolism informatics team.

RESPONSIBILITIES:

Develop data analysis strategies, write algorithms, and deploy computational tools for the exploration of high-dimensionality datasets centered on high-throughput metagenomic sequence data.

Explore novel data representation modes with an emphasis on integrating diverse data types.

Develop and deploy algorithms for the reconstruction of microbial metabolic pathways and the identification of enzymatic activities relevant to biotransformation and/or bioremediation.

Conceive, implement and test statistical models; work with wet-lab researchers to translate these models into testable experiments; analyze data from experiments.

REQUIREMENTS:

Relevant backgrounds include formal training or notable experience in a quantitative discipline, such as bioinformatics, chemoinformatics, computer science, physics, or in biology with a strong quantitative background.

Characteristic requirements are:

- Demonstrated proficiency in UNIX/Linux command-line use

- Demonstrated competency in UNIX shell scripting and Perl programming (or a comparable programming language)

- Previous experience in managing large-scale data sets, e.g., delivered by current high-throughput sequencing technologies

- Knowledge, background, or experience in biochemistry concepts and current methods

- Ability to work effectively and diplomatically with a wide range of people in a fast-paced team environment

- Demonstrated ability to communicate effectively, both orally and in writing

- Ability to quickly learn and interpret biological and technical information

- Ability to work independently and follow through on assignments with minimal direction

Evry France Computational Biologist

-Ability to be resourceful when faced with obstacles and to show initiative in identifying resources and methods for resolving issues

TERMS:

An initial contract of 2 years will be offered to the successful candidate.

LOCALE:

Evry, France

HOW TO APPLY:

To apply, please submit a statement of interest and a CV to mgx_application "at" genoscope.cns.fr

DEADLINE:

Until filled

Thomas Brüls Centre National de Séquençage - GENOSCOPE - CEA

"If you don't know how to do something, you don't know how to do it with a computer." – Anonymous

Thomas Bruls <bruls@genoscope.cns.fr>

FieldMuseumChicago SummerREU

Field Museum summer 2011 undergraduate research internship opportunities:

The Field Museum in Chicago, Illinois is please to announce its 2011 summer REU internship program. Please visit the web site: http://www.fieldmuseum.org/research_collections/-scholarships/reu.html for program details and REU project descriptions.

Applications must be made electronically via the Field Museum's web site on or after February 1st. The REU application deadline is March 1st, 2011. All letters of reference must be received by March 1st.

The Field Museum houses one of the world's foremost scientific collections of biological diversity (>25 million specimens), and supports active biodiversity research around the globe. Despite the urgency of the current biodiversity crisis, few educational opportunities exist for students in the biological sciences to interact with scientists and institutions dedicated to the study of organic diversity. The Field Museum REU program will train a cohort of at least eight students in biodiversity-related research in a 10-week summer pro-

gram. Each participant will undertake an independent research project supervised by a museum scientist in a discipline such as taxonomy and systematics, phylo/biogeography, paleontology, molecular phylogenetics, or conservation. Students will experience biological diversity through the use of the museum's collections in their research, and will be trained in project-relevant techniques and equipment such as the scanning electron microscope, various light microscopy set-ups, and equipment in the Pritzker DNA lab. A six-week course in phylogenetic systematics run concurrently with intern projects will provide a common theoretical framework for their research. REU students will receive an introduction to the Encyclopedia of Life (EOL) in Field Museum's Biodiversity Synthesis Center. At the conclusion of the summer students will present their research results to their peers and museum scientists at the Undergraduate Research Symposium. Providing equal opportunity in biodiversity-related research is an important goal of the program.

Potential 2011 REU Projects include: * Resolving species limitations in lichens * Strategies of acacia-ants: to grow or to reproduce? * Calibrating phylogenies: are we using the right fossils? * The Bivalve Tree of Life - understanding the evolution of clams, mussels, oysters and their relatives * Bivalves in Time and Space (BiTS) - Clams as tools to understand macroevolution * Tracing the Evolution of Venom in Scorpionfishes and Waspfishes * Do skeletal dimensions predict daily activity patterns in rodents? * Do some nocturnal Malaysian mammals see in color?

2011 Program Dates Start of 2011 REU Program: Monday, June 6, 2011 * Phylogenetic workshop series (weekly), and introductory lectures: June 8- July 27, 2010 (evening class, participation mandatory) * End of 2011 REU Program: Friday, August 12, 2010 * 2011 REU research symposium: Saturday, August 13 (participation mandatory)

REU student participants receive a salary of \$4,500 for the 10-week program, and additionally \$2,500 subsistence and \$500 travel allowance.

This REU program is funded through an REU-Site grant of the National Science Foundation to Drs. Petra Sierwald and Peter Makovicky (Field Museum of Natural History).

Corrie Saux Moreau, Ph.D. Assistant Curator, Division of Insects Department of Zoology Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605 USA Office: (312) 665-7743 Fax: (312) 665-7754 cmoreau@fieldmuseum.org

*** NOTE NEW WEBSITE: www.moreaulab.org ***

cmoreau@fieldmuseum.org

INRA France 6 Population Geneticists

I thank you for diffusing this offer on Evoldir Web site:
- there are 6 tenured positions in genetics of population and quantitative genetics:

Ranked the number one agricultural institute in Europe and number two in the world, INRA (National Institute for Agricultural Research) carries out mission-oriented research for high-quality and healthy foods, competitive and sustainable agriculture and a preserved and valorised environment.

Every year, INRA seeks researchers from all disciplines to reinforce laboratory and fieldwork teams. Researchers will be heavily involved in scientific networks and tackle environmental, economic and social issues. They are expected to strive for excellence and come up with useful, concrete applications for the real world. Individual research projects will go hand in hand with group efforts in a bid to further knowledge and innovation, in order to produce sustainably, preserve the environment, and improve human nutrition.

INRA is recruiting 53 scientists through open competition and offering permanent positions.

Positions are opened to PhD (or equivalent) in a wide range of scientific disciplines such as biochemistry, biology, genetics, ecology, genomics, mathematics, physiology, microbiology, economics, forest sciences, environmental sciences, sociology, animal production sciences, computer science, chemistry, neurosciences, entomology, statistics, virology and many more.

There are 16 permanent positions in genomics and genetics:

- Characterization of honey bee losses. Interactions between pathogens and other stressors.
- Genomics of beef cattle breeds - Isolation and functional analysis of genes involved in early fruit development
- Nutritional and metabolic epigenetic programming
- System Biology: signalling pathways involved in responses to abiotic constraints in plants (Nitrogen/carbon/oxidative stress)
- Molecular basis of phenotypic plasticity
- Molecular mechanisms involved in the regulation of mycotoxins biosynthesis in *Fusarium* spp.
- Population genomics of tree fungal pathogens
- Relations between diversity and functioning of soil microbial communi-

- ties in agroecosystems using metagenomic approaches
- Understanding the mechanisms involved in the adaptation and metabolic diversity of *S. cerevisiae* using a system biology approach
- Biostatistics and development of methods to analyze genomic data
- Development and adaptation of methods to exploit genetic variability, based on genome-wide molecular markers
- Genetic resources and association genetics: from a candidate gene to a genome-wide approach
- Evolution of selection methods (genetic evaluation, breeding systems)
- Population genomics of tree fungal pathogens
- Using molecular markers to study selection pressure on the behaviour of large herbivores

Evolution of selection methods (genetic evaluation, breeding systems)

All information (job profiles, guides, application forms) are available on Inra's web site: <http://www.inra.fr/-drh/cr2011/index.php?langue=EN> Submission deadline: February 24, 2011

Sincerely,

Fabienne Giroux Service Recrutement et Mobilit?? fabienne.giroux@paris.inra.fr

[inra] Direction des Ressources Humaines 147, rue de l'Universit?? 75338 Paris Cedex 07 - France Tel 01 42 75 90 77 Fax 01 42 75 90 39

[CR2011] En savoir plus < <http://www.inra.fr/drh/-cr2011> > !

Fabienne GIROUX <Fabienne.Giroux@paris.inra.fr>

Manchester 2 Conservation Biology

Dear Evoldir readers

I'd like to announce the following permanent lecture-ship opportunities at Manchester Metropolitan University to any who may be interested. The posts are both replacements for recent retirements. Our division contains a healthy number of people interested in whole organismal research, with popular BSc and MSc courses in behavioural ecology and conservation biology. I expect many readers of Evoldir might fit within the remit for one or even both posts. More information about the posts and the application process may be found at the links provided. Please feel free to contact me informally if I can provide any additional information.

Ed Harris

Manchester Metropolitan University Science and the Environment Division of Biology and Conservation Ecology e.harris@mmu.ac.uk phone +44 (0)161 247 1228

****Job.01**** Job ID: SN/251 - Lecturer in Molecular Conservation Biology URL: <https://www.jobs.mmu.ac.uk/mmujobsite/-VacancyDetail.aspx?VacancyUID=00000006456>
Application Deadline: 17 December 2010

Description: The University wishes to appoint a candidate who would normally have a first degree in a biological discipline, a proven research record in molecular conservation studies and preferably teaching experience at degree level. The person appointed will be a conservation biologist who uses molecular tools and should preferably show evidence of field-based skills and be able to contribute to undergraduate and postgraduate fieldwork in the UK and abroad. The preferred candidate should have interests in population genetics, evolution, landscape genetics or other applications of molecular techniques to conservation. Tropical experience would be an additional advantage.

****Job.02**** Job ID: SN/252 - Lecturer in Wildlife Ecology/Biology URL: <https://www.jobs.mmu.ac.uk/-mmujobsite/VacancyDetail.aspx?VacancyUID=00000006457> Application Deadline: 17 December 2010

Description: The University wishes to appoint a candidate who would normally have a first degree in a biological or related discipline and a proven research record at doctoral or postdoctoral level and preferably teaching experience at degree level. The person appointed should show evidence of field-based skills and experience of one or more of the following: wildlife management, spatial ecology/modelling, tropical wildlife studies, international capacity building, zoo/small population studies, animal breeding/welfare, animal/plant physiology related to wildlife biology.

***** Ed Harris Manchester Metropolitan University Science and the Environment Division of Biology and Conservation Ecology John Dalton Bldg. room E432 Chester Street Manchester, M1 5GD, UK phone +44 (0)161 247 1228 Fax +44 (0)161 247 6325 e.harris@mmu.ac.uk *****

Disclaimer: Before acting on this email or opening any attachments you should read the Manchester Metropolitan University's email disclaimer available on its website <http://www.mmu.ac.uk/emaildisclaimer>

MarseilleU EvolutionaryBiology

A professor position in Evolutionary biology is open more information (administrative and scientific) : http://sites.univ-provence.fr/evol/index.php?option=com_content&view=category&layout=blog&id=-169&Itemid=236&lang=en best regards

Pierre Antoine Pontarotti l'Equipe Evolution biologique et Modélisation UMR 6632 Université de Aix Marseille/CNRS . <http://sites.univ-provence.fr/evol/> Pierre.Pontarotti@univ-provence.fr

MaxPlanck FieldAssist BehaviouralEvolution

Assistant for Behavioural Ecology project

Project description:

Human impact in the global biosphere now controls many major facets of ecosystem function. One of the most striking man-made environmental changes is the existence and rapidly ongoing spread of urban areas. Human ecological impact has enormous evolutionary consequences as well and can greatly accelerate evolutionary change in the species around us. Anecdotal observations and recent studies suggest that urbanization does not only affect the overall species composition and certain aspects of the phenology but may also change the behaviour of individuals thriving in urban areas. The aim of this project is to investigate effects of urbanization on the behaviour of European blackbirds (*Turdus merula*) in their natural habitat. Fieldwork (including behavioural experiments and radio-telemetry) will be carried out in the areas of Munich and Raisting, in Bavaria.

Requirements:

We are looking for an enthusiastic person, who is interested in behavioural ecology, physiology and evolution, with good organizational skills, able to work independently as well as in a team (field experience with birds is advantageous), who would like to take this unique opportunity to do field work at the well-

equipped Max-Planck-Institute for Ornithology, Vogelwarte Radolfzell. During field work the applicant must be willing to spend most of the day in the field, sometimes with cold weather, and sometimes in weekends. Therefore, a strong attitude towards field work is essential.

Appointment:

Starting date is March 2011 or later. The field work should end in July 2011.

Information and Applications:

Additional information about this study is available upon request to Catarina Miranda (see below). More general information about the Max-Planck-Institute for Ornithology can be found on our website (<http://orn.mpg.de/>). Please send us your application until February 15 2011. Interviews will take place in the last week of February.

Contact:

Catarina Miranda (miranda@orn.mpg.de) Department of Migration and Immuno-ecology Max-Planck-Institute for Ornithology, Vogelwarte Radolfzell, Schlossallee 2, 78315 Radolfzell, Germany

Catarina Miranda <catarina.miranda@gmail.com>

Miami FL LabTech 2

I inadvertently provided an incorrect email address for my colleague at Florida International University in a previous post. Below is the correct position description.

Two-year grant-supported lab technician position available, beginning in January, 2011 (exact date pending grant award). Incumbent will work primarily at a USDA laboratory in Miami, with some time spent at nearby Fairchild Tropical Botanical Garden and Montgomery Botanical Center. Duties will be focused on the sequencing of single copy genes from population samples of Caribbean and Florida cycads, but may also include microsatellite DNA genotyping of the same target organisms. The successful candidate will have experience with DNA extraction, amplification (PCR), and direct sequencing, preferably with the Applied Biosystems platform. Hands-on experience with DNA cloning using competent bacteria, DNA fragment analysis, Genemapper and Sequencher software are pluses. Starting salary \$35,000. Applications, con-

sisting of a vitae and cover letter, should be sent to Dr. Javier Francisco-Ortega, Florida International University, Dept. Biological Sciences, 11200 SW 8th Street, Miami, FL 33199 (ortegaj@fiu.edu), (305) 348-2080, or to Dr. Alan W. Meerow (alan.meerow@ars.usda.gov), USDA-ARS, 13601 Old Cutler Rd., Miami, FL 33158, (786) 573-7075.

Alan W. Meerow, Ph.D., Research Geneticist and Systematist USDA-ARS-SHRS, National Germplasm Repository 13601 Old Cutler Road, Miami, FL 33158 USA voice: 786-573-7075; FAX: 786-573-7110 email: alan.meerow@ars.usda.gov

Alan.Meerow@ARS.USDA.GOV

Miami LabTech CycadEvolution

Two-year grant-supported lab technician position available, beginning in January, 2011 (exact date pending grant award). Incumbent will work primarily at a USDA laboratory in Miami, with some time spent at nearby Fairchild Tropical Botanical Garden and Montgomery Botanical Center. Duties will be focused on the sequencing of single copy genes from population samples of Caribbean and Florida cycads, but may also include microsatellite DNA genotyping of the same target organisms. The successful candidate will have experience with DNA extraction, amplification (PCR), and direct sequencing, preferably with the Applied Biosystems platform. Hands-on experience with DNA cloning using competent bacteria, DNA fragment analysis, Genemapper and Sequencher software are pluses. Starting salary \$35,000. Applications, consisting of a vitae and cover letter, should be sent to Dr. Javier Francisco-Ortega, Florida International University, Dept. Biological Sciences, 11200 SW 8th Street, Miami, FL 33199 (ortega@fiu.org), (305) 348-2080 or Dr. Alan W. Meerow, USDA-ARS-SHRS, National Germplasm Repository, 13601 Old Cutler Road, Miami, FL 33158, voice: 786-573-7075; FAX: 786-573-7102; email: alan.meerow@ars.usda.gov

Alan W. Meerow, Ph.D., Research Geneticist and Systematist USDA-ARS-SHRS, National Germplasm Repository 13601 Old Cutler Road, Miami, FL 33158 USA voice: 786-573-7075; FAX: 786-573-7110 email: alan.meerow@ars.usda.gov

Alan.Meerow@ARS.USDA.GOV

Montpellier Vertebrate Conservation

ECOLOGY, CONSERVATION AND BIOGEOGRAPHY OF VERTEBRATES

The Ecole Pratique des Hautes Etudes (EPHE) anticipates filling a 'Directeur d'Etudes' position (equivalent to full professorship in the French academic system) at the Centre for Functional and Evolutionary Ecology (CEFE) in Montpellier, France.

Candidates are expected to develop a research program on the population and/or community dynamics of terrestrial vertebrates including the impact of environmental changes in their various aspects under the general framework of conservation biology. Research should articulate conceptual approach with field work, and may include evolutionary aspects. Applied perspectives are strongly expected in relation to the management of biodiversity. Candidates are also expected to take the leadership of a group of 10 permanent staff in a term of about two years, and to be able to collaborate within international networks.

Teaching responsibilities will include ecology, biogeography and conservation of wildlife, especially terrestrial vertebrates. EPHE holds a specific national mission targeting students outside the classical university curricula based on practical teaching, but Master teaching is also expected. Teaching will be in French.

The review process will be held in Spring 2011, and the position will begin end of 2011 (pending final decision of French Academy of Sciences). The candidates should have an HDR diploma (if already working in France) or equivalent. The official announcement and the list of requested items for formal application will be posted later on at the EPHE web site. At the moment, provide only a CV (including teaching experience and publications) and a letter of interest.

Montpellier is located on the Mediterranean coast of France, and harbours the largest concentration of evolutionary biologists and ecologists in France, and one of the largest in Europe.

Contact: Dr. R. Prodon (head of the Ecology and biogeography vertebrates team) or P. Jarne (head of CEFE), CEFE, campus CNRS, 1919 route de Mende, 34293 Montpellier cedex, France. Roger.prodon@cefe.cnrs.fr ; philippe.jarne@cefe.cnrs.fr

Philippe JARNE <philippe.jarne@cefe.cnrs.fr>

Nancy INRA Population Genomics

Dear Evoldir Members,

French National Institute for Agricultural Research (INRA) is opening a TENURED POSITION in POPULATION GENOMICS OF FUNGI.

We are looking for a highly motivated young scientist to develop a population genomics project on plant pathogenic fungal species.

Candidates should have a strong background in evolutionary ecology and above all population genetics. Skills in next-generation sequencing analysis are required. Knowledge on host-parasite interactions would be a plus.

Details on how to apply and the guide for applicants can be found at

<http://www.inra.fr/drh/cr2011/-informations.php?langue=3DEN> Direct access to the profile

<http://www.inra.fr/drh/cr2011/profil-cr2.php?NumProfil=3DCR2-2011-7-EFPA-4&langue=EN> Dead line for application is February 24th.

Please contact me for any further query and before applying (halkett@nancy.inra.fr).

Below is an abstract of proposal context:

The field of population genomics has recently emerged at the cross between traditional population genetics and the development of high-throughput techniques, with the aim to decipher the strength of selection events on genome evolution. Although not yet widely applied to plant pathology studies, these approaches seem particularly well suited to reveal the genetic bases of the adaptive potential of fungal plant pathogens. While the rapid pace of pathogen evolution (which result from intensive selection pressure through the massive deployment of resistance genes) presents a major impediment to sustainable agriculture, it also provides interesting opportunities to better understand the evolutionary biology of host-parasite interactions.

The project stands at the core of the joint unit Tree-Microorganism interactions (located near Nancy, Northeastern France) and lies at the interface of its two major teams "ecology and population biology of

tree fungal pathogens" (directed by B. Marçais) and "eco-genomics of interactions" (directed by F. Martin). The hired junior scientist will thus benefit from the complementary skills and resources of these two teams, including advanced population genetics knowledge, large and historical population samplings, great genomic tools and molecular resources, including genome sequence and transcriptomic analyses performed on model pathogen species, including the poplar rust fungus.

Best regards,

Fabien Halkett

F. HALKETT halkett@nancy.inra.fr

UMR 1136 IAM (Trees-Microorganisms joint unit)
INRA Nancy F-54280 Champenoux France Tel : +33
3 83 39 40 55 Fax : +33 3 83 39 40 69

halkett@nancy.inra.fr

NCStateU BiologicalComplexity

North Carolina State University Major New Initiative in Biological Complexity

North Carolina State University is embarking on a new university-wide interdisciplinary initiative in biological complexity encompassing systems genetics, behavioral neurogenetics and neurogenomics, genome-environment interactions, ecological genetics, systems ecology, climate change, computational biology and bioinformatics. Applicants should have a PhD or equivalent, a strong research record with evidence of exceptional scholarship, and embrace interdisciplinary research.

Faculty Positions in Biological Complexity

Multiple faculty positions associated with the initiative in biological complexity are available. Applicants should be broadly trained in areas covered by the initiative, have at least two years of productive post-doctoral research experience and have a commitment to training. New faculty members are expected to develop and maintain vibrant, extramurally-supported research programs and contribute to the teaching missions in the life sciences. Competitive salaries and startup packages will be provided to ensure a successful research program. We are primarily seeking faculty at the Assistant or Associate Professor level, but outstanding senior applicants will be considered.

To apply for faculty positions, go to jobs.ncsu.edu/applicants/Central?quickFind209 and provide a cover letter, curriculum vitae, a three-sentence statement of the most significant scientific problem(s) to be addressed in the near future, statements of research and teaching interests, and three letters of recommendation. Review of applications will begin immediately, and continue until the positions are filled. We welcome applications from groups of individuals and dual-career couples and will work with candidates to identify suitable employment opportunities for spouses or partners.

Distinguished Postdoctoral Scholar Program in Biological Complexity Associated with the new initiative in biological complexity is a distinguished postdoctoral scholar program. Applicants are expected to be near completion of a terminal doctorate degree. Postdoctoral scholars will receive competitive stipends and independent research funds to initiate an innovative research program with guidance from a multidisciplinary mentoring committee in areas covered by the initiative in biological complexity. To apply for a scholar position, go to jobs.ncsu.edu/applicants/Central?quickFind221 and provide a cover letter, curriculum vitae, a three-sentence statement of the most significant scientific problem(s) to be addressed in the near future, statements of research and career plans, and three letters of recommendation. Review of applications will begin immediately, and continue until the positions are filled.

NCSU is an AA/EO employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, age, veteran status or disability. In its commitment to diversity and equity, NC State University seeks applications from women, minorities, and persons with disabilities. NC State welcomes all persons without regard to sexual orientation. ADA Accommodations: please call 919-515-5727.

Trudy F. C. Mackay, PhD, FRS William Neal Reynolds and Distinguished University Professor of Genetics Department of Genetics North Carolina State University Campus Box 7614 Raleigh, NC 27695-7614 Tel: 919-515-5810 Fax: 919-515-3355 Email: trudy_mackay@ncsu.edu

trudy_mackay@ncsu.edu

PurdueU Undergrad summer Evolutionary Genetics

Undergraduate research fellowship in evolutionary genetics and genomics

At least one undergraduate fellowship will be offered in the laboratory of Dr. Krista Nichols, Biological Sciences and Forestry and Natural Resources, Purdue University for summer 2011. The fellow will be involved in genetic and genomics research of complex traits in salmonids, including, but not limited to migration/residency in steelhead and rainbow trout, or disease in Pacific salmon. The research fellowship is offered through the Purdue University Summer Undergraduate Research Fellowship (SURF) program (<https://engineering.purdue.edu/Engr/Research/SURF>). Undergraduates will participate in research, but also professional development activities with other SURF participants during this 11 week program. The fellowship comes with a generous stipend and possible housing allowance. For more information on the research, please contact Dr. Krista Nichols (kmnichol@purdue.edu). Applications will be reviewed beginning 16 February 2011, and no applications will be accepted after 11 March 2011. Application requirements, details and submission are available on the Purdue SURF website (<https://engineering.purdue.edu/Engr/Research/SURF/Programs>).

Krista M. Nichols Associate Professor Purdue University Departments of Biological Sciences & Forestry and Natural Resources 915 W State Street West Lafayette, IN 47907 765.496.6848 (voice) 765.494.0876 (fax) <http://bilbo.bio.purdue.edu/www-ecology-faculty/nichols/index.html> “Nichols, Krista M” <kmnichol@purdue.edu>

QueensU FieldAssist AvianEvolution

AVIAN FIELD RESEARCH ASSISTANT. 1-2 experienced assistants needed for continuation of a long-term study of breeding American redstarts in southeastern

Ontario. Project runs from May 1 to mid-July. Primary responsibilities include netting, banding, bleeding, nest searching, and supervising a small team of field assistants. Prior field experience in these techniques is essential. The ability to re-sight small, active, color-banded birds and to recognize American redstart song are assets. Prior experience with nest-finding of small songbirds is an asset. Work schedule involves long hours in the field, typically six days per week. We offer a competitive salary and include room and board at a premier biological field station. The position will be filled as soon as suitable candidates are found. Send cover letter, CV, and contact information for 3 references to Ann McKellar at ann.mckellar@queensu.ca. Please include “Avian Field Assistant 2011” as the subject line.

ann.mckellar@queensu.ca

Raleigh FieldAssist PlantInteractions

Spring Seasonal Field Assistant Positions
Raleigh/Durham, NC

We are seeking full-time and part-time Field Assistants for a spring field season in Raleigh/Durham, North Carolina. The project examines the effects of urbanization on multispecies plant-animal interactions with Lynn Adler (UMass-Amherst), Paige Warren (UMass-Amherst), Rebecca Irwin (Dartmouth), and Adrian Carper (Dartmouth). Field sites will be located in Raleigh/Durham and surrounding areas.

Field research assistants will be involved in observing plant-insect interactions, measuring floral traits, estimating bee abundance and diversity, manipulating pollen, and documenting site-based characteristics of urbanization. Previous experience in field biology or plant-insect interactions is preferred but not required for the position. Advanced undergraduates or individuals with a BA or BS in a relevant field are encouraged to apply.

The positions are available from mid-March (starting on or after March 14) through late April, 2011. Salary will be in the range of \$8-11 per hour, depending on experience. The positions do not come with health or retirement benefits.

To apply, please send a resume and brief cover letter as a single email (pdf) attachment. In your re-

sume, please include the names and contact information for three references (email and phone numbers, and a brief description of how you know the recommender). The cover letter should explain why you are interested in the position. Information about how this position would relate to your previous research experience and/or career goals is encouraged. In the subject of the email, please put: Spring Research Assistant. Applications should be sent to: Adrian Carper <Adrian.Carper@Dartmouth.edu>. Applications will be accepted until the positions are filled. To receive full consideration, please apply by February 7, 2011.

Adrian.L.Carper@Dartmouth.edu

RyersonU EvolutionaryEntomology

Dear Evoldir,

I'm a faculty member at Ryerson University, in Toronto, Ontario, Canada. My department (Chemistry & Biology) is conducting a faculty search for a zoologist that uses model insect systems in their research. I really enjoy my position and would love to have colleagues who focus on ecological or evolutionary questions. The job advertisement can be found below and at: http://www.firefly.ryerson.ca/hr-careers/index.cfm?fuseaction=post.view&location=-Faculty&post_id=28962 If you know of anyone who would be qualified and interested in the job, please feel free to circulate this widely.

BEST, Lesley Campbell

Deadline to Apply: Tuesday February 15, 2011

Located in the heart of Toronto, the largest and most culturally diverse city in the country, Ryerson University is committed to diversity, equity and inclusion. The university is known for innovative programs built on the integration of theoretical and practically oriented learning. Our undergraduate and graduate programs are distinguished by a professionally focused curriculum and strong emphasis on excellence in teaching, research and creative activities. Ryerson is also a leader in adult learning, with the largest university-based continuing education school in Canada.

The Department of Chemistry and Biology invites applications for a tenure-track position in non-vertebrate animal systems and/or eukaryotic cell physiology. The appointment will be at the Assistant Professor level. The successful applicant will have a Ph.D., post-

doctoral experience, and an outstanding research record of work with non-vertebrate animal models and/or tissue culture systems. The new faculty member must have the ability to establish and maintain a strong, independent, externally-funded research program. The new faculty member is expected to demonstrate excellence in teaching at the undergraduate and graduate levels, to contribute to the teaching of key courses such as Zoology, Cell Biology, Physiology, and Developmental Biology (as appropriate) and to the development of new courses and the evolution of program curricula. This position commences August 1, 2011, subject to final budgetary approval.

The Department of Chemistry and Biology is in a phase of dynamic growth, both at the undergraduate and graduate levels. In addition to a B.Sc. in Chemistry, Ryerson offers a M.Sc. and a new Ph.D. program in Molecular Science as well as a M.A.Sc. and Ph.D. program in Environmental Applied Science and Management. New faculty members will have the opportunity to supervise students in these graduate programs. The successful applicant will complement a department with current strengths in Cell and Molecular Biology and in Environmental Biology and Microbiology.

Interested candidates should prepare their application packages, including cover letter, curriculum vitae, statement of teaching interests and philosophy, research proposal, and up to three recent publications. Research proposals should conform to the guidelines for the "free-form" portion of form 101 for the NSERC Discovery Program see http://www.nserc-crsng.gc.ca/OnlineServices/ServicesEnLigne/Forms-Formulaire_eng.asp for details. Candidates should not include form 100 or Part I of form 101 with their submissions. Applications should be sent to Dr. Stephen Wylie, Interim Chair, Department of Chemistry and Biology by e-mail (pdf attachments preferred) to cabchair@ryerson.ca. Applicants should arrange to have three letters of reference submitted directly to the Department Chair at the email address above or by post (Department of Chemistry and Biology, Ryerson University, 350 Victoria Street, Toronto, Ontario, Canada, M5B 2K3). For e-mail submissions, signed, scanned pdf letters sent from the referee's official university or business email address are acceptable. Deadline for submission is February 15, 2011. Although applications will be accepted until the positions are filled, only those received by the deadline will be guaranteed full consideration.

These positions fall under the jurisdiction of the Ryerson Faculty Association (RFA). The RFA collective agreement can be viewed at: http://www.ryerson.ca/-teaching/employment_resources/rfa.html. The RFA's

website can be found at: <http://www.ryerson.ca/~rfa/>. A summary of RFA benefits can be found at: <http://www.ryerson.ca/hr/working/etoolkit/benefits/rfa/>. Ryerson University is strongly committed to fostering diversity within our community. We welcome those who would contribute to the

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

SmithsonianInst NMNH SummerWork

The Smithsonian Institution, National Museum of Natural History, is pleased to announce the 2011 competition for paid undergraduate summer research internships at the museum (Washington, DC). The application deadline is February 7, 2011. Details and applications can be found at <http://www.mnh.si.edu/NHRE/>. Please forward this email to all interested parties.

Smithsonian is an equal opportunity employer and we encourage individuals from groups under-represented in the sciences to apply.

Best Wishes,

The NHRE Team at the National Museum of Natural History, Smithsonian Institution Questions may be addressed to our program administrator, Virginia Power, powerv@si.edu

“Cottrell, Elizabeth” <cottrelle@si.edu>

Switzerland FieldAssist TitEvolution

Field assistant position in an evolutionary ecology study in Great tits

For the next field season, April to June 2011, we are looking for two highly motivated field assistants to participate in our project on the relationship between heat shock proteins, heterozygosity and stress resistance in

Great tits. Fieldwork will be done in a forest near Bern, Switzerland.

Your work will include surveys of breeding advances, taking body measures from nestling great tits, catch adults, recording feeding rates... Most of the time, we will be out in the forest handling the birds, followed by some smaller amount of lab work.

Travel expenses and accommodation are paid. Additionally, the field assistants will receive approximately 900 Swiss Francs per month. Applicants should speak either German or English and have a driving license. The fieldwork can be rather tiring, please be prepared to work also in rain and cold weather.

Applications should be in English and include a CV and a short letter of motivation. Please send your application to:

Beatrice Vögeli and Michèle Wegmann, Evolutionary Ecology, University of Bern. E-mail: bvoegeli@iee.unibe.ch, mwegmann@iee.unibe.ch

“\”Vögeli, Beatrice (IEE)\”
<beatrice.voegeli@iee.unibe.ch>

Switzerland Short Term Lab Tech

Laboratory technician (5-8 months)

University of Bern, Switzerland, Institute of Ecology and Evolution, Aquatic Ecology Lab

Working location: Eawag Centre of Ecology, Evolution and Biogeochemistry, Kastanienbaum, Switzerland.

We are looking for a short-term laboratory technician to assist with molecular analyses and fish care. The technician will contribute to a research project on visual adaptation in Lake Victoria cichlid fish.

Main duties: - molecular analyses of cichlid fish visual pigments; - aquarium maintenance and fish care.

Requirements: - Laboratory school or BSc degree (or equivalent) - practical experience with methods in molecular genetics (DNA extraction, PCR, gel electrophoresis, DNA sequencing, realtime qPCR) and biochemistry (HPLC, LCMS); - ability to work independently; - strong organisational and communicative skills; - English proficiency.

In addition to these requirements, the ideal applicant has an interest in evolutionary biology and experience with fish care.

Duration and level of employment are somewhat flexible, ranging from 5 months fulltime to 8 months part-time. Salary will be commensurate with experience and follow the salary scheme of the Swiss National Science Foundation. Start date is as soon as possible but no later than March 1st.

Applications will be reviewed until the position is filled; please apply before 27 January 2011. Interested candidates should submit a letter of motivation, cv and contact information of two potential referees (preferably as a single file) to Martine Maan at martine.maan@eawag.ch. Informal inquiries are welcome at the same address. For more information about the department and our research, see www.fishecology.ch.

Dr. Martine E. Maan

University of Bern, Institute of Ecology & Evolution and Eawag Centre of Ecology, Evolution & Biogeochemistry

Department of Fish Ecology & Evolution Seestrasse 79
CH-6047 Kastanienbaum +41-(0)41-3492169

www.fishecology.ch www.martinemaan.nl

Martine.Maan@eawag.ch

TexasAM EvolutionaryBiol

Due to delay in job announcement appearing in Science <http://scjobs.sciencemag.org/JobSeekerX/-ViewJob.asp?cjid=62663&accountno=6407&st=TX>

review of applications will not begin until the end of January. I will be happy to answer any questions about the job, department or university.

Alice Hempel, Assoc. Prof. & Herbarium Curator, Department of Biological & Health Sciences, Texas A&M-Kingsville. alice.hempel@tamuk.edu

The Department of Biological and Health Sciences at Texas A&M University-Kingsville invites applicants for the position of Professor and Chair of the BHS Department beginning August 2011. The review of applications will begin January 15, 2011 and continue until the position is filled. The Chair will have an energetic and creative vision for building and sustaining ambitious departmental research programs while maintaining a focus on excellence in teaching. Skills necessary for the day to day management of the department activities, faculty and administrative staff are essential.

Significant experience with managing a research center is a plus.

The Chair will be responsible for overseeing the development of interdisciplinary research teams for the purpose of securing external funding through innovative and traditional sources. The successful candidate may be required to teach courses on line or via interactive TV. Our vision for the new Chair includes enhancing the department's role in the natural sciences at all levels and providing strategic positioning for new faculty appointments as we grow. The department offers degrees in Biology (BA, BS, MS), Biomedical Science (BS), and Communication Sciences and Disorders (BS, MS), and houses the National Natural Toxins Research Center (<http://ntrc.tamuk.edu/>).

The Chair will have an earned Ph.D. in biological science or a closely related field and be able to document professional accomplishments warranting appointment at the rank of Professor, an international reputation in research, and a solid record of publishing and funding. She or he must demonstrate outstanding leadership and mentoring abilities through effective interpersonal communication as a colleague as well as a commitment to high quality teaching at both the undergraduate and graduate levels. Candidates must have 18 graduate hours for every field in which they teach. Salary will be competitive and commensurate with applicant's qualifications and experience.

Texas A&M University-Kingsville is part of the Texas A&M University system. Located 40 miles from Corpus Christi and 120 miles north of Brownsville, Texas A&M University-Kingsville is a rapidly growing Carnegie Research Level 2 institution of ~6,200 students offering doctoral, master's and bachelor's degrees. The student body reflects the ethnic diversity of South Texas with approximately 65% of the student body being of Hispanic origin.

Please submit a letter of application that addresses interest in the position, relevant qualifications and experience, along with a curriculum vitae, statements of leadership ability and philosophy, teaching philosophy, and research interests, and the contact information for at least three references who may be asked for letters of recommendation to: Dr. Jon A. Baskin Search Committee Chair Texas A&M University-Kingsville Department of Biological and Health Sciences 700 University Blvd. MSC 158; Kingsville, Texas 78363.

Applicants must also formally apply online by visiting <https://javjobs.tamuk.edu/> and selecting the Kingsville campus.

Prior to issuing a letter of appointment, official tran-

scripts must be received directly from each degree-granting institution by the Office of the Provost, Texas A&M University?Kingsville, MSC 102, Kingsville, Texas 78363-8202. During the review process, applicants may be asked to submit unofficial transcripts from each institution of higher education attended directly to the Search Committee Chair. If transcripts are from an international institution, it is the responsibility of the prospective faculty member to have the transcripts translated and evaluated by an approved credential evaluator (AACRAO) <http://www.aacrao.org/internationalforeignEdCred.cfm>

Selected candidate must pass a pre-employment background investigation to be hired for this position.

The above duties may not be performed in every position with this title and the above functions may not include all related duties that might be performed. Requires physical activities supportive of the above job duties. Reasonable accommodations will be made as necessary.

If you are a male age 18 through 25, you must be properly registered with the Selective Service System to be eligible for hire.

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

Trinidad FieldTech StreamFishEvolution

Field technician position in tropical stream evolutionary ecology

Research interns are needed to assist in a multi-disciplinary, multi- investigator, experimental study ecology and evolution in Trinidad. The research is led by professor David Reznick at the University of California and funded by the Frontiers for Integrative Biological Research program of the National Science Foundation. We seek to integrate multiple biological fields for the study of the interactions between ecological and evolutionary processes in Trinidadian streams. Duties of the position include assisting in monthly censuses of fish populations (guppies) in montane streams. The monthly censuses include long hours of laboratory time. Qualifications: Research will take place in semi-remote

areas of Trinidad sometimes under bad weather conditions. Applicants must be able to live and work well with others. Research will also involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly desirable. Please address these skills when applying.

Research technicians will be required to spend a minimum of 3-months in Trinidad, with possibility of extension for an entire year. Starting dates are flexible, starting as early as March 2011. Successful applicants will earn a stipend of \$500/month and have their travel expenses, accommodation, per diem and insurance covered.

Applicants should send cover letter, CV and the names, phone numbers and e-mail addresses of three or more professional references to Andrés López-Sepulcre (andresls@ucr.edu), David Reznick (gupy@ucr.edu) and Connor Fitzpatrick (crfitzpat@gmail.com). At least two of the references should be academics.

Andres Lopez-Sepulcre <lopezsepulcre@gmail.com>

Trondheim EvolutionaryGenetics

Researcher(s) in Genetics / Molecular Ecology

Norwegian Institute for Nature Research (NINA) announces vacant position(s) as researcher in genetics/molecular ecology. The candidate will be located at the main office in Trondheim. NINA is Norway's leading institution in applied ecology and has approximately 210 employees, of which approximately 120 are located in Trondheim.

We invite applications by geneticist(s) with a broad experience in DNA analyses (sequencing, microsatellites, SNPs) and population genetics, and basic competence in applied ecology. We are seeking a researcher who is a team player and who can also work independently. A doctoral thesis is usually required.

NINA has lately had an increasing activity in genetic identification of wolverines, wolves, Arctic fox and other terrestrial predators, and we primarily seek a researcher with experience in genetics of terrestrial animals. The position involves extensive collaboration with ecologists

in NINA's department of terrestrial ecology.

Because of increasing activities involving genetics in a number of research areas within NINA, we also encourage applications from geneticists having experience with aquatic organisms.

NINA offers:

* salary as researcher between NOK 397 200 to 615 400
* flexible working hours * pension scheme * an inspiring working environment

Candidates should submit their application attaching CV, scanned documents on education, exams and relevant experience to siri.svendsen@nina.no, or by post to NINA, Personnel office, PB 5685 Sluppen, 7485 Trondheim. Relevant candidates will be interviewed.

NINA works actively for gender balance in our research staff, and females are encouraged to apply.

For more information, please contact Research Director Inga E. Bruteig (phone +47 73 80 15 53, e-mail: inga.bruteig@nina.no) or Researcher Øystein Flagstad (phone +47 917 18 309, e-mail: oystein.flagstad@nina.no). For information about genetics in aquatic sciences, contact Research director Kjetil Hindar (phone +47 73 80 15 46, e-mail: kjetil.hindar@nina.no) or Researcher Sten Karlsson (phone +47 73 80 14 59, e-mail: sten.karlsson@nina.no).

Application deadline is 1st February 2011, and we aim for rapid employment.

Sten.Karlsson@nina.no

UArizona ResTech MicrobialEvolution

Research Technician / Lab Manager : Microbial Evolution and Pathogenicity

A research technician position in the field of microbial evolution is available in the Baltrus lab (http://www.cals.arizona.edu/research/baltruslab/-Baltrus_lab/Home.html) in the Plant Sciences department at the University of Arizona. The overall goal of the lab is to understand microbial adaptation to multiple environments using the plant pathogen *Pseudomonas syringae* within and outside of hosts. The research assistant will directly contribute to lab management as well as the lab research program.

Responsibilities include:

* Preparing and executing experiments to further multiple research projects. Experiments might include: assaying multiple bacterial phenotypes including measurement of growth in vitro and in planta; PCR and RT-PCR; genetic manipulation of bacterial genomes; DNA sequencing and analysis; maintaining bacterial lines both through continued passage as well as frozen stocks. * Maintain accurate and up-to-date records of experiments. * Perform routine laboratory tasks including ordering supplies and reagents; media and solution preparation; cleaning and autoclaving; care of plants; and equipment maintenance. * Supervise and train undergraduate and graduate students.

Qualifications:

Bachelor's degree in a field appropriate to the area of assignment AND two years related research experience; OR, Six years research experience appropriate to the area of assignment; OR, Any equivalent combination of experience, training and/or education.

Additional Qualifications:

* Previous laboratory experience required. * Proven experience and skill in microbiological techniques. * Effective oral and written communication skills and excellent organization. * Ability to work both independently and collaboratively. * Background in molecular biology is highly desirable. * Experience with bioinformatics or programming is preferred but not required. * Experience maintaining *Arabidopsis* or other plants is preferred but not required.

The University of Arizona conducts pre-employment screening for all positions, which includes a criminal background check, verification of academic credentials, licenses, certifications, and work history. In addition, a check of names and identification documents is conducted on all new employees to ensure they are legally authorized to work in the United States.

This position is non-security sensitive and requires a name-based criminal background check

To apply, visit www.UACareerTrack.com/hr, job #46818.

Contact baltrus@email.arizona.edu for inquiries

baltrus@email.arizona.edu

UBern FieldAssist BirdEvolution

Paid field assistant position to study the evolution of family living and cooperative breeding in birds.

We are seeking one highly motivated field research assistant for the upcoming breeding season, April-June 2011, near Guadix, Spain (Granada, Southern Spain) to assist with our project investigating the evolution of family living and cooperative breeding in birds.

This project focuses on the shift in parental investment patterns and offspring dispersal decisions in several species of kin-group living and cooperative breeding birds. The project is based at the University of Bern (PI Michael Griesser, PhD students Emeline Mourocq & Gretchen Wagner) and is in collaboration with Prof. Manuel Soler (University of Granada).

The work of the field assistant will be to help the PhD students with locating nests, carrying out field experiments, catching and banding birds, and managing data, as well as assisting with overseeing a small team of volunteers. The work is carried out in scenic semi-arid habitats close to the Sierra Nevada mountains. We will work 5-6 days per week depending on the work load, and some days can be quite long in the field. Temperatures in this area can be below zero C at the beginning of the season, and later can easily be above 35C.

A successful candidate should have the following qualifications:

- (1) A BSc or higher in Biology, Behavioral Ecology or similar.
- (2) Previous field experience with birds, including observing, mist-netting and banding.
- (3) Ability to work and live with a small team and a sociable personality.
- (4) Leadership experience, particularly in field research situations, is a plus.
- (5) Driving license
- (6) Fluent in English
- (7) Knowledge of Spanish is helpful.

Salary will be set based on qualifications and experience. Accommodation and travel to and from the study site, up to 300 , will be provided.

Applications should include a CV, a letter of motivation (1 page) and contact information for two references, sent to both:

Emeline Mourocq: emeline.mourocq@iee.unibe.ch and
Gretchen Wagner: gretchen.wagner@iee.unibe.ch

Applications received until 15th February 2011 will be given full consideration.

gretchen.wagner@iee.unibe.ch

UBern FieldAssist BirdEvolution 3

*University of Bern.Field assistant position. Bird evolution

University of Bern: Field assistant position to study hormone mediated maternal effects and consequences of hatching asynchrony in birds

I am looking for 2 enthusiastic field assistants interested to join my field project in Bern, Switzerland. Applicants will be part of the evolutionary ecology team (Institute of Ecology and Evolution, University of Bern).

The biological model used in my study is the Great Tit, a small passerine bird nesting in nest-boxes in forests near Bern.

The aim of my study is to investigate the consequences of hatching asynchrony on nestling and adult fitness, as well as the effects of maternal testosterone, hormone supposed to be one of the major determinants of the developmental plasticity.

I will require 2 field assistants that will help with all the aspects of the work, including checking nest-boxes, ringing, measuring and catching birds, performing treatments, etc. Applicants with a BSc or MSc in Biology/Ecology, as well as with bird handling experience would have an advantage. There is also possibility for potential supervising BSc or MSc students for their training periods.

I am looking for highly motivated assistants because of the hardness of the work. Field requires long hours of work no matter the conditions are. The study will start at the end of March 2011 until the beginning of June 2011. Fluent English/French or Polish speaking and a valid European driving license are required.

This is an expense paid field assistant position.

Applications - including a CV, and the name of one or two referees - should be send to: podlas.kasia@gmail.com

Applications received until 15 February 2011 will be given full consideration.

Katarzyna Podlas Institute of Ecology and Evolution
University of Bern Baltzerstr. 6 3012 Bern Switzerland
Email: podlas.kasia@gmail.com Phone: +41 31 631 30 20

Katarzyna Podlas <podlas.kasia@gmail.com>

UBritishColumbia ResearchManager

Species at Risk and Habitat Studies (SARAHS) Research Manager. The Institute for Species at Risk and Habitat Studies (SARAHS), opened as a Centre in March 2006 at the University of British Columbia Okanagan. The institute's goal is to enable interdisciplinary research on the structure and function of habitats and populations of species at risk at local, national and international levels. The SARAHS Institute manages a fee-for-service facility called Fragment Analysis and DNA Sequencing Service (FADSS). We are looking for a manager that will be responsible for the planning, management, coordination, and communication within the SARAHS Institute. The manager will be involved with the facilitation of research review processes and the development of collaborative agreements involving researchers, granting agencies and departments within the institute. The manager will work with the director to set priorities and goals, prepare budgets, and develop strategic research activities within the SARAHS institute mandate. They will participate in writing grants for SARAHS and working with the Development Office to secure external funding for SARAHS. In addition, they will be responsible for managing the fee for service facility, including the supervision of up to three FADSS employees. A University Degree with a minimum of 4 years of related experience is required. A M.Sc. degree would be an asset. Experience supervising and training staff is required. Experience with managing a research facility would also be an asset. To view job posting 9468 and to apply for the position go to: <http://www.hr.ubc.ca/careers-postings/staff.php> (Please select the active link and then select Apply Now).

Daniel M. Durall UBC Okanagan Associate Professor
3333 University Way Kelowna BC V1V 1V7 Tel. 250-807-8759 Fax. 250-807-8005

Daniel Durall <daniel.durall@ubc.ca>

UFlorida Bioinformatics Programmer

We have an immediate opening for a Bioinformatics Researcher / Programmer. Projects in the lab include examining the molecular evolution of RNA interference genes and unraveling the molecular basis for host switching in Plasmodium parasites.

For more information on our research, see http://microcell.ufl.edu/egcb_lab Duties will include developing analysis software and bioinformatics pipelines to infer molecular adaptation from cross-species and population-genetic data, protein structural homology modeling and functional inference, interaction network analysis, and whole-genome alignment and analysis. The bulk of this work will be data curation and analysis, rather than algorithm-building.

Preferred qualifications include proficiency in C/C++ or a scripting language such as Perl or Python, and a strong interest in molecular evolution and genomics. A demonstrated familiarity with common bioinformatic sequence-analysis tools and ability to contribute to scientific research is ideal. We will consider applicants with either a bachelors or masters in computer science, bioinformatics or a related discipline.

Applications are due by the end of January, 2011. Please include a 1- page description of your experience and interests, your CV, and contact information for three references. Applications can be emailed to bryank@ufl.edu. This position is for 2 years, with the possibility of extension; salary is negotiable and will be commensurate with experience.

Bryan Kolaczowski

Department of Microbiology and Cell Science University of Florida

UMontreal 2 Genomics

The Sainte-Justine University Hospital Center Research Center seeks applications for 2 tenure-track faculty positions at the rank of assistant professor.

Applicants should have strong interest in genomic analyses, systems biology, computational functional genomics, and in applying these results to human diseases and/or human population genetics. Specific areas of interest include (but are not limited to): (i) Systems Biology application of -omic' approaches to interrogate genomes and pathways with an emphasis on understanding the control points of quantitative traits or disease; (ii) Computational Biology integration of

diverse -omic' and other data to advance predictive models of human disease, host-pathogen interactions, gene/protein network analyses, and/or human evolution; and (iii) Evolutionary Biology development of experimental, mathematical and/or computational approaches to better understand evolutionary processes.

Our Research Center offers a congenial medical and basic research environment complemented by the rich academic milieu of Montreal. These positions also feature competitive start-up packages and state-of-the-art shared instrumentation for next-generation sequencing and computational analysis.

The successful applicant is expected to develop his/her own competitive research program; attract external funding for his/her research program; supervise graduate and post-graduate research; and actively engage with the national and international scientific community.

Applications will be considered beginning Feb 15, 2011 until the position is filled. Applicants should send a current CV plus a statement of research interests by email and arrange to have three letters of recommendation sent to:

Ms. Annabel Seyller Selection Committee Sainte-Justine Hospital Research Center 3175 Cote Sainte-Catherine Montreal, QC H3T 1C5 Canada

Email: annabel.seyller@recherche-ste-justine.qc.ca

"Barreiro, Luis [BSD] - HGD"
<lbarreir@bsd.uchicago.edu>

UPennsylvania Summer Assist Lyme Disease Evolution

Job announcement

Disease Ecology and Evolution Project Assistant
(April-September)

University of Pennsylvania

Full-time Project Assistants (paid) are needed for research on the ecology and evolution of the Lyme disease bacterium in Southeastern Pennsylvania. Research in the Brisson laboratory focuses on the evolving interactions among bacteria, ticks, and animal hosts, that influence Lyme disease prevalence. Duties include live-trapping small mammals and birds and sampling tick abundance to assess infection status. Early morning,

moderately strenuous activity is required. Field research is conducted in small teams in Crow's Nest Preserve, PA - about 45 minutes west of Philadelphia. Prior experience handling wild small mammals or birds is highly desirable; strong work ethic, meticulousness, and ability to work both independently and in small teams is required. The project offers research and learning experiences for Project Assistants, particularly with regard to the ecology and evolution of infectious diseases.

Desired dates of employment (35 hours/week): April 11 to September 11, 2011, although applicants available during summer break from college are also welcome. Wage is commensurate with education experience. Near-site housing is available.

Consideration of applications will begin on Feb 10th. Please submit via email a brief letter of application, a resume, and 2-3 letters of recommendation from three professional supervisors or academic instructors to:

Dustin Brisson dbrisson@sas.upenn.edu

Department of Biology University of Pennsylvania Leidy Laboratories, 209 433 South University Avenue Philadelphia PA 19104-6018 V:215.746.1731 F:215.898.8780

dbrisson@sas.upenn.edu

UTennessee Chattanooga Evolutionary Biologist

BIOLOGICAL AND ENVIRONMENTAL SCIENCES:
EVOLUTIONARY BIOLOGIST Assistant Professor,
full time, tenure-track, beginning August 1, 2011.

Teaching responsibilities include evolution, genetics, introductory biology, and development of advanced courses in field of expertise. Research and teaching experience in the areas of microbial evolution and genomics or population genetics preferred. Candidates for this position need to be willing to teach at all levels of the curriculum, from the introductory undergraduate to graduate (Masters) level. Ph.D. required and postdoctoral research experience desired. Commitment to teaching excellence, responsiveness to student needs, and effective communication skills are essential. Scholarly activities and a research program that involves undergraduate and graduate students are expected. Preference will be given to candidates with demonstrated excellence in college or university teaching. Screening

of credentials will begin January 31, 2011, and will continue until the position is filled. Send curriculum vitae, transcripts, and three reference letters to: Facultyvitae@utc.edu

Applicants should reference search number F10-2-015.

The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI and IX/Section 504/ADA/ADEA Institution.

chatzimanolis@yahoo.com

HRMS/c/HRS_HRAM.HRS_CE.GBL Click on -Collections Manager - Robert and Carol Berry Biodiversity Conservation Center'

Please contact Matt Carling (mcarling@uwyo.edu or 307-766-6169) for more information. Review of applications will begin on 8 February 2011.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.uwyo.edu/carlinglab (p) 307.766.6169

mcarling@uwyo.edu

UWyoming VertebrateCollections

Vertebrate Collections Manager - University of Wyoming

Essential Duties The University of Wyoming seeks a Collections Manager to oversee the Vertebrate Collections housed in the Robert and Carol Berry Biodiversity Conservation Center. Duties include, but are not limited to: coordinating activities for the center following all federal, state and center policies; collecting and preparing specimens; obtaining and maintaining necessary collecting permits and filing permit reports; training and supervising students and temporary employees in specimen preparation and curation methods; overseeing data cataloging; processing specimen loans and exchanges; assisting in collection-related grant proposal preparation; contributing to Berry Center education and outreach programs. Opportunities are possible for research in collaboration with Berry Center staff.

Minimum Qualifications A master's degree in biology or a related natural science field from an accredited university plus work-related experience OR an equivalent combination of education and experience is required.

Knowledge Skills and Abilities Applicants should be knowledgeable and experienced in vertebrate curatorial techniques and have strong organizational and interpersonal skills.

Required Materials Applicants will need to submit a letter of application outlining vertebrate curatorial experience, a current CV, and contact information for 3 references.

Please Note Salary is commensurate with education and experience.

To apply: Paste the following link into your browser: <https://jobs.uwyo.edu/psc/EREC/EMPLOYEE/>

WageningenU EvolutionOfBehaviour

Full professor of Behavioural Ecology at Wageningen University (The Netherlands) Job Reference WU-2011-HL001

The chairholder in Behavioural Ecology will head a research group which studies the evolutionary causes of variation in behaviour among individuals, populations, and species. The research will focus on behaviour of animals in their natural environment, with a focus on the behavioural ecology of social interaction. The research group will also carry out research on animals kept in husbandry environments following research lines parallel to those in the natural environment.

The research will be characterized by an experimental approach, aimed to test hypotheses derived from theoretical models, and by a phenotypic approach of behavioural ecology. The research focuses on vertebrates. We expect an internationally recognized research program that involves theoretical modelling, experiments, and phenotypic characterization.

The professor will be responsible for the teaching of behavioural ecology and will contribute to the BSc and MSc programs of Animal Sciences, Biology, and Forest and Nature Conservation, and education of PhD-students.

The person will initiate, lead, and supervise research in the field of behavioural ecology; acquire research funding; supervise BSc, MSc, and PhD students; and lead the chair group. The person will also be involved in the societal discussion on issues like animal welfare and nature conservation.

For further information take a look at www.jobsat.wur.nl Additional information about the vacancy can be obtained from Prof. dr. E.W. Brascamp, chairman of the selection committee Telephone number +31 6 51074760 E-mail address: pim.brascamp@wur.nl

If you are interested please apply online (including your detailed curriculum vitae and a list of publications) before 1 March 2011, or send your application to Dr. H. van den Brand Adaptation Physiology Group P.O Box 338 6700 AH Wageningen The Netherlands

“Visser, Marcel” <M.Visser@nioo.knaw.nl>

Yunnan China PlantMolecularEvolution

This position also focuses, among others, on phyto-geography, i.e., genetic differentiation between populations across landscapes. This is a basic evolutionary approach to understand how populations, and eventually species diverge...

FACULTY POSITION in Plant Molecular Ecology at the Associate Professor level in the Chinese Academy of Sciences, based in the Xishuangbanna Tropical Botanical Gardens, Yunnan, China.

The Plant Geography Lab at the Xishuangbanna Tropical Botanical Garden (XTBG), Yunnan invites applications for a full-time faculty position in Plant Molecular Ecology. The Plant Geography Lab is a new group lead by Professor Ferry Slik (www.phylodiversity.net/fslik/) and is currently recruiting new staff. The aim is to build up an international team of researchers and postgraduate students with numerous collaborations with Chinese and international organizations. This position is one of three faculty positions in the research group and has a four year term. We will soon move into a new research facility in the gardens and we plan to expand our molecular capabilities with this position. XTBG is part of the Chinese Academy of Sciences (CAS), through which these appointments will be made. Please visit

the garden’s website at <http://en.xtbg.ac.cn/> for more information about XTBG.

Highly qualified candidates with experience in plant molecular techniques applied to ecological questions and interested in research in any of the following or related areas are encouraged to apply: plant phylogenetic community ecology; plant population genetics; and genetic consequences of global change on plant communities.

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 leading 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.

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 Prof. Ferry Slik <ferryslik@hotmail.com> and Ms. Liu Zhiqiu <lzhq@xtbg.org.cn>.

Ferry Slik Professor Plant Geography Lab
Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences Menglun, Mengla, Yunnan 666303, China Tel. +86-15924688380

Website

<http://www.phylodiversity.net/fslik/> Plants of Southeast Asia <http://www.asianplant.net> Trees of Sungai Wain

<http://www.nationaalherbarium.nl/Sungaiwain/>

Asian plant species synonym website http://www.phylodiversity.net/fslik/synonym_lookup.htm

Macaranga and Mallotus of Borneo <http://www.nationaalherbarium.nl/MacMalBorneo/-index.htm>

Ferry Slik <ferryslik@hotmail.com>

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Australia VolFieldAssist BirdEvolution

Volunteer Field Position in Bird Biology in Australia

Field research volunteers are needed from mid March-June/July 2011 as part of a project investigating the behaviour, ecology and evolution of breeding finches in northern tropical Australia.

This work will involve behavioural observations, nest inspections, assisting with catching and processing birds, and building and installing nest boxes. This fieldwork requires getting up before dawn, and often spending 7-8 hrs per day (6 days/week) working in hot and humid conditions (35-45C).

Essential requirements: (1) Willingness to spend long days working in hot, humid conditions (2) Ability to work in small teams, as well as independently (3) Be hard-working, motivated and be able to carry out repetitive work with quality and consistency (4) Fluency in English

Preferable requirements: (1) Previous fieldwork experience (2) Knowledge in observing and handling birds (3) Full driving licence (4) 4 wheel-driving experience

This is a volunteer position, however, accommodation,

food and travel expenses will be covered within Australia. Additional subsidies for travel costs to Australia may be available.

The study area is located near Wyndham, a very small and remote town on the northern-most tip of Western Australia. Wyndham is situated in the scenic Kimberley region (where much of the movie Australia was filmed) and is renowned as Australias hottest town (highest year round average temperature) and home to a large diversity of birdlife (as well as saltwater crocodiles). Our field station is located on the estuary/port, and has all basic facilities, including accommodation, kitchen, showers, and internet/phone reception.

Interested applicants should email a cover letter, CV, dates of availability, and the contact information of two references to Dr Sarah Pryke: sarah.pryke@mq.edu.au

Applications should be submitted as soon as possible, and will be reviewed until the positions are filled.

Sarah Pryke <sarah.pryke@mq.edu.au>

CoalescentSimulation of DNASequences

Hello,

I was hoping someone on EvoDir may have some experience with coalescent simulation of DNA sequences.

I am trying to determine, from a set of alleles (from a single locus within the same species), which is the most ancestral sequence. I understand that coalescent simulation can provide the TMRCA, but I am wondering if it can also identify, from a set of alleles, which particular allele is the most ancestral. If so, does anyone know of any programs or software suitable for such an analysis? Any advice is greatly appreciated. Thanks very much.

Ryan Lamers rlamers@mail.ucf.edu

and writing illuminate principles of evolutionary biology and an enhanced aesthetic appreciation of natural history will merit special consideration. Nominations for the award will be solicited on an annual basis, and a committee appointed by the president of the American Society of Naturalists will select recipients of the award. The award will consist of an especially appropriate work of art and an honorarium of \$2,000, presented at the annual meeting of the American Society of Naturalists. For the 2010 E. O. Wilson Naturalist Award, a nomination packet, including a letter of nomination, a curriculum vitae including a publication list, and three key publications, should be sent by February 10, to David Reznick <david.reznick@ucr.edu>. Please indicate E. O. Wilson Award in the subject line. <http://www.amnat.org/ASN/awa.html#wilson> Andres Lopez-Sepulcre <lopezsepulcre@gmail.com>

EMBL Postdocs CallProposals

The European Molecular Biology Laboratories has a fellowship programme which funds interdisciplinary postdoctoral fellowships between at least two labs at our 5 sites. Candidates are invited to propose projects or can chose from a list of projects put forth by EMBL group leaders. We have a call for applications which is currently open. Some of the projects are centered on Evolutionary Biology.

Kind regards,

Brenda Stride Postdoctoral Programme Administrator
EMBL

Brenda Stride <stride@embl.de>

EOWilson Award Nominations

NOMINATIONS OPEN FOR THE E. O. WILSON NATURALIST AWARD In recognition of the lifetime of outstanding contributions of Professor E. O. Wilson in the areas of ecology and evolutionary biology, including the study of social insects, biodiversity, and biophilia, this award was established in the year of Professor Wilson's retirement from Harvard University. The E. O. Wilson Naturalist Award will be given to an active investigator in mid-career who has made significant contributions to the knowledge of a particular ecosystem or group of organisms. Individuals whose research

Evolution 2011 MSI FacultyTravelAward

Evolution 2011 MSI Faculty Travel Award Are you a biologist at a minority-serving institution? Apply now for a travel award to attend Evolution 2011 in Norman, OK.

The National Evolutionary Synthesis Center (NES-Cent), with support from the Society for the Study of Evolution (SSE), is pleased to announce a travel award for faculty from Minority Serving Institutions (MSIs) to attend Evolution 2011 V the annual meeting of SSE, SSB (Society of Systematic Biologists) and ASN (American Society of Naturalists) V to be held in Norman, OK from June 17-21, 2011.

If you are a faculty member at an MSI, HBCU or other institution with significant enrollment of under-represented minority students, you are encouraged to apply. Funds are available to cover conference registration, travel, food and lodging for up to three individuals.

This award is intended to provide MSI faculty with an opportunity to present original research in evolution, systematic biology, evolutionary genomics/informatics, evolution education/outreach or other disciplines typically represented at the SSE/SSB/ASN meetings. As such, your application must include a talk/poster title. (Abstracts are not required to apply.) In addition, you will be asked to provide a brief (1 page) statement describing how this award will contribute to your profes-

sional/scientific development, as well as provide benefit to your students and institution.

To apply, please visit www.nescent.org/eog/-2011facultytravelawardapplication Application Deadline: March 31st, 2011 (Awards will be announced by April 8th, 2011)

For more information, please contact Dr. Jory Weintraub (jory@nescent.org)

Jory P. Weintraub, PhD Assistant Director, Education and Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200 Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Email: jory@nescent.org Skype: [jory.weintraub](https://www.skype.com/user/jory.weintraub) Web: www.nescent.org

Jory Weintraub <jory@nescent.org>

Evolution 2011 UndergraduateDiversity

Undergraduate Diversity at the Evolution meetings 2011

We are pleased to announce a NSF-funded program for bringing talented and diverse undergraduates to the Evolution meetings this June 17-21 in Norman, Oklahoma. For the ninth year in a row we will fly a cohort of 25 undergraduates from throughout the US and Puerto Rico to present a poster at the meetings, receive mentoring from graduate students, postdocs and faculty, and participate in the Diversity Social as well as a career-oriented 'Undergraduate Futures in Evolutionary Biology' panel and discussion. The program covers the costs of travel, registration, food and accommodation at the meetings. The application deadline is 1 March, but admissions will be reviewed as they are received, and so the earlier you apply, the better. Applications are welcomed from all undergraduates, and the admissions goal is to create a diverse pool of students. An overview of the program and student eligibility can be found at:

<http://www.oeb.harvard.edu/faculty/edwards/-community/application.html> Apply online at:

www.nescent.org/Evolution2011_application Applications consist of a short statement of interest, a letter of recommendation and the title and abstract of the poster to be presented.

In addition, we will be soliciting names of graduate

students, postdocs and faculty members who would like to serve as mentors during the meetings. Mentors take pairs of students and attend talks with them, introduce them to colleagues, network and generally make the meetings a welcoming place for them. Although costs are not covered for mentors it is an unusually rewarding experience. Contact Richard Kliman <rmkliman@cedarcrest.edu> if you are interested in serving as a mentor.

For inquires contact one of the organizers:

Scott Edwards - sedwards@oeb.harvard.edu Richard Kliman - rmkliman@cedarcrest.edu Jory Weintraub - jory@nescent.org

Jory P. Weintraub, PhD Assistant Director, Education and Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200 Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Skype: [jory.weintraub](https://www.skype.com/user/jory.weintraub) Web: www.nescent.org

Jory Weintraub <jory@nescent.org>

FieldCollections Cuba

A research community to which I belong is excited about the possibility of doing some collaborative research and collecting in Cuba. I would greatly appreciate contact with anyone who already has such a program in place or is currently attempting to set one up, and with Cuban biologists who might be interested in collaborating with us.

The research community contains ecologists, developmental biologists, physiologists and geneticists and is focused on various aspects of the biology of the self-fertilizing hermaphroditic killifish, *Kryptolebias* (formerly *Rivulus*) *marmoratus*.

"Bruce J. Turner" <fishgen@vt.edu>

From BigBang to Biology

We are considering the creation of a new undergraduate course, working title "Origins: From the Big Bang to Biology"

Two questions, 1) can anyone recommend a possible

text with this breadth of coverage (cosmic origins to human society) ? 2) If you teach a similar course at your institution would you be willing to share your thoughts about it with me?

Thanks,

Mark Farmer Univ. Georgia

Mark A. Farmer Dept. Cellular Biology 724 Biological Sciences Bldg. University of Georgia, Athens, GA 30602 (706)542-3383 Voice (706)542-4271 FAX farmer@cb.uga.edu

(This message is made of 100% recycled electrons)

– This message has been scanned for viruses and dangerous content by MailScanner, and is believed to be clean.

farmer@cb.uga.edu

HunterFly samples

Dear all,

I am a master student currently interested in the study of the genetic structure and phylogeography of the hunter-fly **Coenosia attenuata** and related species in the University of Lisbon, Portugal in the Computational biology and Population Genomics research group (CoBig2, <http://cobig2.fc.ul.pt>). I am having some difficulties getting samples from some geographic regions. I would greatly appreciate the contacts of some people who would be able to help me with this.

Thank you,

Renata Martins

Renata Martins <renata.fr.martins@gmail.com>

InStruct problems

Hi,

I would like to use InStruct (Gao et al. 2007, Genetics, 176: 1635), that implements a Bayesian approach to analyse population structure not depending on assumptions of Hardy-Weinberg equilibrium (in contrast do STRUCTURE or BAPS). However, I am not sure

that my AFLP data are correctly interpreted as the allele frequencies that are reported in the output differ strongly from what is reasonable.

Does anybody has experience with InStruct and dominant data sets like AFLP? How do I have to code the data in the diploid case ?

regards Walter

–

***** Dr. Walter Durka Department Biozönoseforschung Department of community ecology

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ
Helmholtz Centre for Environmental Research - UFZ
Theodor-Lieser-Str. 4 / 06120 Halle / Germany

walter.durka@ufz.de / <http://www.ufz.de/-index.php?en=798> phone +49 345 558 5314 / Fax +49 345 558 5329

walter.durka@ufz.de

Jim Crow 95th Birthday

On the 18th of January, 1916 James F. Crow (Jim to those who know him) was born, so the 18th of this month is Jim's 95th birthday.

Jim is in surprisingly-active retirement in Madison, Wisconsin.

I've already wished him happy birthday, but those who wish to send him their own greetings on his 95th can email him at jfcrow (at) WEDONT-LIKESPAM.wisc.edu where of course you remove the capitalized part and replace the (at) with an @

Joe — Joe Felsenstein, joe@gs.washington.edu Dept. of Genome Sciences, Univ. of Washington Box 355065, Seattle, WA 98195-5065 USA

Joe Felsenstein <joe@gs.washington.edu>

MammalEvolution Grad-Undergrad awards

The American Society of Mammalogists (ASM) Honorary Committee is currently accepting applications

for Graduate Student (the Jackson, Howell, and Birney Awards) and Undergraduate Research Awards.

Graduate Honoraria

The ASM offers three competitive awards to help promote the careers of outstanding graduate students in Mammalogy. Each award comes with a stipend (\$1000) to attend the annual meeting, where award winners present their research in a plenary session devoted to graduate-student research. There is no difference among the three awards, which are named for three distinguished prior members of the ASM: Anna M. Jackson, A. Brazier Howell, and Elmer C. Birney. This year's annual meeting will be held at Portland State University, Portland, Oregon, from 24-29 June 2011.

The competition is open to all graduate-student members of the ASM, regardless of nationality or current institutional affiliation. [To become a member of the Society visit the ASM membership page [*http://www.mammalsociety.org/membership/index.html*](http://www.mammalsociety.org/membership/index.html)] Applicants must be current Masters or Doctoral students (or have completed their degrees during the previous Fall term) when they apply. Applicants must not have received a previous Graduate Research Award from ASM, or a Shadle or ASM Fellowship. However, recipients of ASM Grant-in-Aid of Research and Latin American Student Field Research are eligible and encouraged to apply. Additional Eligibility rules can be found [*here: http://www.mammalsociety.org/applications/grant_instructions.htm*](http://www.mammalsociety.org/applications/grant_instructions.htm). Students unsure of their eligibility are encouraged to contact the chair of the Honoraria Committee well in advance of the application deadline (Dr. G. Hayssen; vhayssen@science.smith.edu)

The application deadline is [*15 February*](http://www.mammalsociety.org/applications/grant_instructions.htm). Applications are submitted electronically. A complete application consists of a short (1000 word) research statement and a letter of recommendation, preferably from the applicant's advisor. Complete application instructions and evaluation criteria can be found [*here: http://www.mammalsociety.org/applications/grant_instructions.htm*](http://www.mammalsociety.org/applications/grant_instructions.htm) Undergraduate Honoraria

The American Society of Mammalogists (ASM) Honoraria Committee is currently accepting applications for Undergraduate Research Awards.

The ASM supports undergraduate research in Mammalogy by awarding two Undergraduate Research Awards each year. Recipients are awarded a stipend (\$500) to attend the annual meeting, where they will give either an oral or poster presentation during regular sessions. This year's annual meeting will be held at Portland State University, Portland, Oregon, from

24-29 June 2011.

The competition is open to all undergraduate student members of the American Society of Mammalogists, regardless of nationality or current institutional affiliation. [To become a member of the Society visit the ASM membership page [*http://www.mammalsociety.org/membership/index.html*](http://www.mammalsociety.org/membership/index.html)] Applicants must be enrolled in an undergraduate program when they apply, and must not have not received a previous Undergraduate Award from ASM. Students unsure of their eligibility are encouraged to contact the chair of the Honoraria Committee well in advance of the application deadline (vhayssen@science.smith.edu).

The application deadline is [*15 February*](http://www.mammalsociety.org/applications/grant_instructions.htm). Applications are submitted electronically. A complete application consists of a 200-250 word abstract for an oral or poster presentation, a 300-350 word summary of your research project, your curriculum vitae, and a letter from your research advisor. Complete application instructions and evaluation criteria can be found [*here: http://www.mammalsociety.org/applications/grant_instructions.htm*](http://www.mammalsociety.org/applications/grant_instructions.htm). Questions should be directed to Dr. Hayssen (vhayssen@science.smith.edu or via snail mail to Virginia Hayssen, Biology Department, Smith College, Northampton, MA 01063 [413 585 3856]).

– Jessica E. Light Assistant Professor and Curator of Mammals Department of Wildlife and Fisheries Sciences Texas Cooperative Wildlife Collection Texas A&M University 210 Nagle Hall, 2258 TAMUS (mailing) 320A Heep Laboratory Building (office) College Station, TX 77843 Phone: 979-458-4357 Fax: 979-845-4096 email: jligh2@tamu.edu <http://wfsc.tamu.edu/lightlab> jligh2@tamu.edu

NESCent WorkingGroup CallProposals

NESCent (The National Evolutionary Synthesis Center) is sponsoring a range of targeted activities in the general area of Evolutionary Medicine. As part of this program, NESCent is seeking to support a Working Group focusing on the development and implementation of model curricula and curriculum materials in Evolutionary Medicine to support teaching of undergraduates, and students in medicine, nursing, public health and medical research. The resources developed should show how evolutionary principles play an im-

portant role in understanding health and disease, and ideally, should span a wide breadth of medical disciplines.

NESCent Working Groups involve small groups of scientists (10-12 participants) collaborating intensively on the analysis or synthesis of data, models or both, to address a major question in evolutionary science. The working groups will typically meet 3-4 times over two years, with each meeting lasting 3-5 days. Meetings will be held at NESCent in Durham, North Carolina. Support includes travel, lodging and per diem.

Proposals are due by April 1st, 2011.

For more information, including details on the proposal process and requirements, please see <http://www.nescent.org/evomedcurriculum> . Jory P. Weintraub, PhD Assistant Director, Education and Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200 Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Skype: jory.weintraub Web: www.nescent.org

Jory Weintraub <jory@nescent.org>

NSF EvoDevoNetwork

We would like to announce a new funding and networking opportunity for researchers in evolutionary and ecological developmental biology: a National Science Foundation Research Coordination Evo-Devo-Eco Network called EDEN (<http://edenrcn.com/>).

The major aims of EDEN are the following: To fund research exchange grants allowing active interchange of tools and techniques among labs working on emerging model systems. To fund undergraduate internships in the field of Evo-Devo-Eco with an emphasis on emerging model systems. To document the tools and techniques being used and developed in these organisms and make them publicly available for future users. To promote interactions across the Evo-Devo-Eco community through conference funding and the sponsorship of workshops. EDEN's first deadline for funding applications is October 31, 2010. You can read about the funding available at <http://edenrcn.com/funding/> . If you are working at the interface of the fields of development, evolution, and ecology, and/or with non-traditional model organisms, you have probably found yourself developing new techniques and tools. Perhaps you have used well-established protocols from tradi-

tional model organisms as a starting point, but have had to modify these protocols by painstaking trial and error, without the benefit of a large research community to support work on your organism.

If you are working with well-established model organisms, perhaps you would like to add an evolutionary or comparative dimension to your work, but have not worked with other organisms before.

With the support of the National Science Foundation, we have developed a new research coordination network called EDEN (Evo-Devo-Eco Network) to help address these challenges. You can read about EDEN's activities and opportunities at <http://edenrcn.com/> . Please consider "joining" EDEN by filling out a brief survey about your lab's areas of expertise. You can complete the survey on our website at

<http://edenrcn.com/join/> or by clicking here

<http://www.surveymonkey.com/s/JoinEDEN> This survey will allow your lab to be added to a searchable database of scientists, organisms and techniques that will soon be available on the EDEN website. With this database, other researchers in development, evolution and ecology will be able to learn about your work, hopefully facilitating new and useful networks and collaborations.

We encourage you to go to EDEN's website to read more about it, and to check back frequently for future calls for applications, protocols, and workshop and symposia announcements.

Please feel free to email us at edenrcn@fas.harvard.edu with questions about the program, and forward this email to colleagues who you think would be interested in EDEN.

Barbara Perlo <perlo@fas.harvard.edu>

Origin term purging

Dear All,

I have been looking for the origin of the term 'purging' in evolutionary genetics. With the help of several colleagues I've been able to trace it back to the early 1980s in both the evolutionary literature (e.g. Caugant et al. Genetics 1981) and in the conservation literature (e.g. Frankel and Soule in their 1981 book 'Conservation and Evolution'). This relatively widespread use of the term in the 1980s suggests an earlier origin, perhaps in plant

or animal breeding or in the *Drosophila* literature, but I have not been able to track the term further back.

Does anyone know where the term 'purging' originated?

Many thanks for your help.

Best wishes,

Lukas

Lukas Keller Institute of Evolutionary Biology and Environmental Studies University of Zurich Winterthurerstr. 190 CH-8057 Zurich Switzerland

Tel: ++41 44 635 47 50 Fax: ++41 44 635 68 18 Email: lukas.keller@ieu.uzh.ch

Web: <http://www.ieu.uzh.ch/staff/professors/-lkeller.html> Lukas Keller <lukas.keller@ieu.uzh.ch>

Passing of Roger Milkman

Dear colleagues—

Population geneticist Roger Milkman passed away earlier this month of complications from Alzheimer's. An obituary written by friends and colleagues is below. A memorial service is planned next summer at Woods Hole, where he spent most of his summers.

Arlin

Arlin Stoltzfus (arlin@umd.edu) Fellow, IBBR; Adj. Assoc. Prof., UMCP; Research Biologist, NIST IBBR, 9600 Gudelsky Drive, Rockville, MD tel: 240 314 6208; web: www.molevol.org —

Roger Dawson Milkman, Genetics and Evolution

Roger Dawson Milkman, professor, population geneticist, and polyglot, died from a stroke and complications of Alzheimer's disease on January 5, 2011, in Washington, D.C. He was 80.

Milkman's research interests were catholic and interdisciplinary, embracing important issues in population genetics, evolution, embryology, and physiology. His laboratory studies of a polygenic trait in the fruit fly *Drosophila* (the crossveinless phenotype), and on the molecular genetic evolution of the bacterium, *E. coli* are classic, as is his published theoretical work on the forces acting on genetic variation in natural populations.

In his novel pursuit of the genetic basis of natural variation, Dr. Milkman was found in many grocery stores collecting fruit flies and in many zoos collecting sam-

ples of scat with *E. coli*. Well before the era of full genome sequences, he demonstrated that natural living populations of fruit flies and bacteria have an abundant reservoir of gene variants for polygenic traits that serve as the raw material for evolution by natural selection. Remarkably when sequencing DNA of *E. coli*, he discovered the first bacterial gene for a potassium ion channel, which turned out to have a sequence obviously homologous to the human ion channels that participate in the electrical excitability of our nerves. Also he discovered and modeled an early example of heat shock in fly larvae that changed the later development of the vein pattern of the adult *Drosophila* wing.

As a scientist, Milkman will be most remembered for his contributions to the selectionist vs. neutralist debate, for his 1978 paper "Selection differentials and selection coefficients" that unified two conceptualizations of selection, and for his development and application of a "clonal frames" theory accounting for the structure of genomic diversity in *E. coli*.

Roger Milkman was an extraordinary teacher and mentor, but did not bear fools lightly. He had a passion for teaching, frequently using metaphor, song, and limerick to explain and clarify complex topics in genetics in a lucid and often humorous way. His students had to re-enact the dance of chromosomes as they learned about cell division. He enjoyed working with students, teaching them the methods and joys of research, while demanding very high standards. The advanced students he mentored or trained have gone on to highly successful careers in the life sciences, in large part because of his insistence on rigor in designing experiments and interpreting results.

J. Woodland Hastings (Harvard) said, "My most enduring memories of talking with Roger about science is the way his face lit up, literally flashed with enthusiasm, as we engaged in a discussion. He was a very special person with whom to talk science.... He was adamant about ethics and the validity of experiments."

Donald Kennedy (former president of Stanford University) said, "He had wide-ranging interests and could see relationships between events and experimental results that most people missed. His sense of humor was wonderful. He would construct poetry from billboards or guidebooks, or political events whenever the meter of what he saw seemed appropriate. He did this regularly and unpredictably. It was one of the reasons we all wanted to be around him."

Dr. Milkman received his Ph.D. at Harvard under R.P. Levine, did postdoctoral work in Paris with Boris Ephrussi and held Professorships at the University of Michigan, Syracuse University, and the University of

Iowa. He was the editor or editorial board member of many journals of evolution or bacteriology, a responsible officer of scientific societies, a translator of books and articles, and frequent lecturer for the Thomas Alva Edison Foundation's conferences for high school teachers and students. For almost fifty summers he studied, taught, did population research, and sailed at the Marine Biological Laboratory in Woods Hole, MA. Bird watching trips with him were a delight for the ecstasy with which he greeted each find. In later years he loved strenuous hiking with his family in the Canadian Rockies.

Professor Milkman will be remembered for his vigorous engagement of people and ideas. He observed with sharp eyes, ready tongue, and keen

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

Plant EvoDevo Training Grant

Plant micro-Evo-Devo training grant proposal submission deadline: March 01, 2011

Dear Colleagues,

microMORPH is pleased to announce a funding opportunity for undergraduates (\$5,000), graduates students, postdoctorals, and assistant professors (\$3,500) in plant development or plant evolution. These grants are available to support cross-disciplinary visits between labs or institutions for a period of a few weeks to an entire semester. We are particularly interested in proposals that will add a developmental perspective to a study of evolution of populations or closely related species. We are also interested in developmental studies that will incorporate the evolution of populations or closely related species. The deadline for proposals is March 1st, 2011. More information about the training grants and the application process may be found on the microMORPH website:

<http://www.colorado.edu/eeb/microMORPH/grantsandfunding.html> To be eligible for microMORPH training grants, applicants must fill one or more of the following criteria: 1) be a U.S. citizen, or 2) be affiliated with (enrolled in a degree granting program or employed by) a U.S. college, university, or

institution, or 3) propose to train in and be hosted by a lab at a U.S. college, university, or institution.

These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is funded through the Research Coordination Network Program at NSF. The overarching goal of the microMORPH RCN is to study speciation and the diversification of plants by linking genes through development to morphology, and ultimately to adaptation and fitness, within the dynamic context of natural populations and closely related species.

Sincerely,

Pamela Diggle (pamela.diggle@colorado.edu) and Ned Friedman (ned@oeb.harvard.edu)

Rob Baker

PhD Candidate <http://rintintin.colorado.edu/~bakerrl> microMORPH RA <http://www.colorado.edu/eeb/microMORPH> Dept. of Ecology and Evolutionary Bio Ramaley N122 Campus Box 334 University of Colorado Boulder, CO 80309

robert.baker@Colorado.EDU

Software Lamarc2 1.6 release

We have just released Lamarc 2.1.6. This program infers population parameters such as 4Nmu (Theta), immigration rates, population growth rates, and recombination rates from samples of genetic data based on a coalescent MCMC approach.

Release 2.1.6 fixes a severe bug affecting runs which modeled recombination (either inferring it or fixing it at a non-zero value while inferring other parameters). The bug was present in versions 2.1.2 through 2.1.5, and all recombination-modeling analyses with those versions should be rerun. Their estimates of recombination rate were systematically low, and their estimates of Theta were compensatorily high.

This release also fixes an error in handling of SNP data with a per-base error rate in version 2.1.5. Any analyses with this (rare) combination of features should be rerun with the new version.

Finally, rare failures due to random-number problems have been fixed; this should not require any analyses to be rerun as affected runs always crashed.

Lamarc 2.1.6 can be downloaded from the Lamarc web site:

<http://evolution.gs.washington.edu/lamarc/-index.html> We provide executables for Windows, MacIntosh and Linux, as well as portable source code which can be compiled on many platforms. The program is free. If you produce a publication using Lamarc we would appreciate hearing about it.

For further information please contact us:

Lamarc Development Team lamarc@uw.edu Mary Kuhner Elizabeth Walkup Jim McGill Bob Giansiracusa Jon Yamato

Mary Kuhner <mkkuhner@u.washington.edu>

Software MolabIS

MolabIS - An Open Source Information System for Storing and Managing Molecular Genetics Data

RELEASE NOTES

Being able to keep track of samples, manage experimental results and quickly retrieve any dataset from different projects is an essential demand for a wide range of small molecular genetics labs. To address this issue, our project aims to develop an integrated information system for such labs to store and manage sequences and microsatellites of biodiversity projects. As a result, we is pleased to announce the release of MolabIS 1.0.

MolabIS is a web-based information system accessible through the network. With this software, lab users can enter data via the workflow, carry out a batch loading of samples and molecular data, manage information on individuals from any species and genetic group, import raw data from different sequencers, search and update the database, generate PDF reports in different levels, and export data to various formats.

Released under GPL, the software and is freely available at the project homepage (<http://www.molabis.org>).

AVAILABILITY Our project homepage (<http://www.molabis.org>) provides: - MolabIS Appliance (ready-to-use software without installation) - Installation Guide - User Guide (PDF file) - Source Code of MolabIS for Developer - Screenshots - Live Demo with Sample Data (username: demo, password: demo)

CURRENT FEATURES The current version of MolabIS provides the following features: - Web interface

in English (Web 2.0 technology) - Supporting different Web Browsers (Firefox 3+, Internet Explorer 7+, Safari 9+) - User authentication (via 4 groups of users) and data security - Data entry via the workflow (DNA sequencing and microsatellite genotyping) - Individual management from any species and genetic group (e.g. breed) - Management of projects, contacts and experimental protocols - Management of primers and markers - Sample import from data files (CSV, XLS, ODS) - Tracking samples (any material type), labworks and experimental results - Reusing samples (e.g. Blood, DNA) in existing projects - Preparing data for experiments (e.g. sample sheet, DNA sheet) - Management of sample storage (up to 5 storage levels) - Data storage without hardware dependence (e.g. sequencers) - Versatile administration of data (insert, view, update, and delete) - Search engine with various criteria - Retrieving raw files (any sample from any project) - Retrieving final data (sequences, microsatellites) - Generating different kinds of reports in PDF format - Merging multiple sequences from different projects - Exporting sequences to various formats (FASTA, NEXUS, MEGA, PHYLIP, etc.) - Converting microsatellites to various formats (diploid, haploid) in CSV or EXCEL - Batch loading of individuals, samples and molecular data

SOFTWARE LICENSE MolabIS is released under the GNU General Public License. Read this <http://www.gnu.org/licenses/gpl.html> **CONTACT** US Feel free to contact us at: Institute of Farm Animal Genetics (FLI), Mariensee, Germany Truong Van Chi Cong and Eildert Groeneveld (Email: cong.chi@fli.bund.de and eildert.groeneveld@fli.bund.de)

- Cong Truong

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- Eildert Groeneveld

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SouthAfrica VolunteerFieldAssist MiceEvolution 2

Volunteers needed as field assistants for the project:

Evolution and Socio-Ecology of small Mammals in the Succulent Karoo of South Africa

Open positions from July 2011 onwards

Opportunity: This is a great opportunity for anybody who wants to get more experience in field work relating to evolution, ecology and behavior before starting an MsC or PhD project.

Project: We study the evolutionary and ecological reasons as well as physiological mechanisms of group living, paternal care, communal nesting and social flexibility in the striped mouse. As this species is diurnal and the habitat is open, direct behavioral observations in the field are possible.

What kind of people are needed? Biology/zoology/veterinary students are preferred as candidates. Applicants must have an interest in working in the field and with animals. Hard working conditions will await applicants, as the study species gets up with sunrise (between 5 and 6 o' clock), and stops its activity with dusk (19 o' clock). Work during nights might also be necessary. Work in the field will be done for 5 days a week. Applicants must be able to manage extreme temperatures (below 0 at night in winter, sometimes over 40C during summer days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small social group.

Work of field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field. Volunteers are also expected to help with maintenance of the research station (water pump, solar power, etc.)

Confirmation letter: Students get a letter of confirmation about their work and can prepare a report of their own small project to get credit points from their university for their bachelor or masters studies.

Costs: Students have to arrange their transport to the field site themselves. Per month, an amount of Rand 1000 (around 150 US\$, 110 Euro) must be paid for accommodation at the research station. For students with their own undergraduate project, a fee of Rand 1250 (approx. 190 US\$, 140 Euro) per month applies. Students must buy their own food etc in Springbok (costs of about R 2250, approx. 340 US\$ or 250 Euro/month). Including extras (going out for dinner; shopping), you should expect costs of about 550 US\$, 450 Euros per month. Students get an invitation letter which they can use to apply for funding in their home country (eg. DAAD in Germany, SANW in Switzerland).

Place: The field site is in the Goegap Nature Reserve near Springbok in the North-West of South Africa. The vegetation consists of Succulent Karoo, which has been recognized as one of 25 hotspots of biodiversity. It is a desert to semi-desert with rain mainly in winter (June to September).

When and how long: At the moment we are looking for volunteers for the period July / August to November / December. Volunteers are expected to stay at least 2 months, but longer periods of up to 6months are preferred.

How to apply? Send a short motivation letter stating why and for which period you are interested and your CV via email to carsten.schradin@ieu.uzh.ch.

More information under www.strippedmouse.com Contact via e-mail: carsten.schradin@ieu.uzh.ch

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

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

Working as a field assistant in Goegap Nature Reserve

A report by Romy Höppli, student at the University of Zurich, who staid in Goegap June to August 2008

Blue skies without a single cloud for six weeks rocky mountains with little vegetation yellow, orange and pink fields of flowers in whatever direction you look small mammals, lizards and birds in our front yard and Mountain Zebras, Springbok and Ostrich right next door...

This was my time at the Succulent Karoo Research Station in Goegap Nature Reserve in South Africa! During six weeks from the beginning of July until the middle of August I've been living here, studying mice, experiencing nature like never before and being part of a small community where there was always something to laugh and joke about!

After arriving in Goegap, right the next morning my scientific adventure in South Africa began: Setting and checking traps, nest observations and radio-tracking were our daily routine. While I got bitten by the mice quite often in the beginning and my right middle finger was scarred all over, I improved quickly shaking the mice out of the traps, weighing them and checking the number of the ear tag. Other duties like cleaning the cages of the mice in the captive colony, washing the dirt from probably several months out of the traps, painting the new Wendy House and putting in a floor



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>

SpeciesRange papers

Hi all,

I am trying to track down recent literature regarding the movement of species ranges and distributions, particularly those associated with climate change. I am interested in gathering data concerning a wide variety of species encompassing plants, reptiles, fish, birds and mammals so don't hold back. If anyone could recommend literature citing specific examples I would be most appreciative.

Many thanks,

Brian

Dr. Brian Hayden

Quercus School of Biological Sciences, Queen's University Belfast, MBC, 97 Lisburn Road, Belfast BT9 7BL. Northern Ireland (UK). Tel (UK): 078 75193162 Tel (ROI): 086 0582845 Website < <http://www.qub.ac.uk/schools/SchoolofBiologicalSciences/Staff/DrCHarrod/Supervision/BrianHayden/> >

b.hayden@qub.ac.uk

SSB ErnstMayrAward

Society of Systematic Biologists Ernst Mayr Award (Graduate Student Award)

The Ernst Mayr Award is given to the presenter of the outstanding student talk in the field of systematics at the annual meetings of the Society of Systematic Biologists. The award consists of \$1000, a special certificate, and a two-year subscription to the journal *Systematic Biology*.

Who is Eligible. Members of the Society who are students or have completed their Ph.D. within the last 15

months are eligible. Applicants may be from any country, but must be members of SSB, and are advised to join the Society as soon as possible to be considered (to join go to: <http://systbio.org/?q=node/6>). Previous Mayr award winners are not eligible.

Application Procedure. Applications should be sent to the current SSB Awards Committee Chair (Sydney Cameron), at ssb-apps@life.illinois.edu. E-mail submissions are required. IN THE SUBJECT LINE OF THE E-MAIL, please indicate the SSB award category as "Mayr Award" followed by first name initial and last name.

Applicant Procedure:

1. To be eligible for this award, you will need to email a 400-word abstract of your talk to the SSB Mayr Awards Committee (ssb-apps@life.illinois.edu) by April 1, 2011. All candidates will be notified of their status no later than April 10, 2011. Please note that the cut-off date for talk submission is April 17, 2011, which coincides with the final day for "early bird" registration of the annual Evolution meeting, this year "Evolution 2011", hosted by the University of Oklahoma in Norman, OK. This gives you at least a week between notification of acceptance by the committee and talk submission deadline date.
2. If selected as a Mayr Award candidate, create a login on the Evolution 2011 registration site and register for the meeting.
3. After receiving verification of registration payment, you will receive a special code via email that will allow you to login to the Evolution 2011 Presentation Submission site. When you submit your title and keywords you will be given an option to declare your candidacy for the SSB Ernst Mayr Award.
4. Your presentation will be placed in the Ernst Mayr Student Presentation Award session for Evolution 2011. Again, you must first register and pay for the meeting before we can place your talk into the session.

Judging. Based on the submitted abstracts, the Mayr Awards Committee (appointed by the Awards Chair) will select a maximum of 16 applicants for inclusion in the Ernst Mayr Award session, which will be held at a single venue as a continuous session.

Talks will be judged on creativity, quality, excellence of research, and quality of presentation. Abstracts should clearly indicate methods used, conclusions, and the relevance to systematics. Presentations focusing on other areas of biology (ecology, behavior, genetics, populations or molecular biology, etc.) that lack a strong systematics emphasis are not eligible.

Co-Authors. The paper may be co-authored. It is understood that the ideas, data and conclusions presented are primarily and substantially the work of the student

presenter, and the intention is that the student presenter will be senior author on the published version of the paper.

Notification of Winner. The winner of the award will be announced at the SSB business meeting in Normal and again during the banquet awards ceremony (complimentary ticket provided) at the conclusion of the Evolution Meetings, whereupon the winner will be given an award certificate. An announcement of the winner will also be published in *Systematic Biology*.

– Sydney A. Cameron Assoc. Prof. Department of Entomology and Program in Ecology, Evolution and Conservation Biology University of Illinois 320 Morrill Hall 505 S. Goodwin Ave. Urbana, IL 61801

ofc ph. 217-333-2340 lab ph 217-333-2170 cell ph 217 766-5631 scameron@life.illinois.edu

www.life.illinois.edu/scameron Sydney Cameron
<scameron@life.illinois.edu>

SSB GradStudResearchAward

Society of Systematic Biologists Graduate Student Research Award

The Society of Systematic Biologists (SSB) announces the 2011 annual Graduate Student Research Award competition. The purpose of these awards is to assist students in the initiation (first two years) of their systematics projects and in the collection of preliminary data to pursue additional sources of support (e.g., Doctoral Dissertation Improvement Grants from the National Science Foundation) or to enhance dissertation research (e.g., by visiting additional field collection sites or museums). Applicants may be from any country, but must be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: <http://systbio.org/?q=node/6>). Previous awardees may not re-apply, but previous applicants who were not selected for funding are encouraged to re-apply. Awards will range between \$1,200 - \$2000 and approximately seven to ten awards will be made. The list of awardees below includes examples of successful proposals for you to download.

How to apply All application materials must be in electronic format. Applicants and those writing letters of recommendation are required to use pdf format, rather than Word or some other application, to minimize difficulties in file transfer. Applicants should send all mate-

rials (except letters of recommendation) in a SINGLE pdf file. Letters of recommendation should be sent separately by the referees in pdf format or in the text of an e-mail; please include the FULL NAME OF APPLICANT in recommendation letters.

Applicants must submit

1. a curriculum vitae (one page)
2. brief research proposal including objectives, methods, significance, and schedule (max. three single-spaced pages including literature cited and any figures and tables)
3. budget and budget justification (1 page)
4. and arrange for two letters of recommendation; one letter must be from the student's current graduate advisor.

The research proposal must clearly state the current stage of the proposed research and the current year and status of the student. PLEASE INCLUDE APPLICANT'S CONTACT E-MAIL ADDRESS AT THE TOP OF THE APPLICATION ITSELF. Both Masters and Ph.D. students in their FIRST TWO YEARS are eligible. Systematics is interpreted broadly to include questions below and above the species level, molecular and morphological approaches, and issues of pattern and process. Funding is not limited to any particular aspect of research, but rather is available for field, museum/herbarium, and/or laboratory work.

Please email all application materials and queries to SSB Awards Committee ssb-apps@life.uiuc.edu. IN THE SUBJECT LINE OF THE E-MAIL, PLEASE INDICATE "Student Research" FOLLOWED BY FIRST INITIAL AND LAST NAME.

To be considered for this year's award, application materials, including letters of recommendation, must be received electronically no later than March 31, 2011.

– Sydney A. Cameron Assoc. Prof. Department of Entomology and Program in Ecology, Evolution and Conservation Biology University of Illinois 320 Morrill Hall 505 S. Goodwin Ave. Urbana, IL 61801

ofc ph. 217-333-2340 lab ph 217-333-2170 cell ph 217 766-5631 scameron@life.illinois.edu

www.life.illinois.edu/scameron Sydney Cameron
<scameron@life.illinois.edu>

SSE TravelAwards

The Society for the Study of Evolution announces awards for international travel, including International

Events awards and funding for SSE students/postocs to attend the 2011 ESEB meeting.

http://www.evolutionsociety.org/-awards_International.asp
<jstone@colby.edu>

Judy Stone

SynTax SystematicsResearchFund

SynTax and the Systematics Research Fund, offered jointly by the Linnean Society and the Systematics Association, are open for application. Please follow one of the links below for more information: <http://www.systass.org/awards/srf.shtml>, <http://www.systass.org/awards/syntax.shtml>, or <http://linnean.org/>

james.cotton@sanger.ac.uk

TravelAwards Vienna MASAMB

Dear ALL,

we would like to remind you that the deadline for Mathematical and Statistical Aspects of Molecular Biology (MASAMB) workshop is coming up soon on the 15th February.

Also note that we will award 20 grants of up to 250 Euros to PhD students and postdocs traveling to MASAMB from non-Austrian institutions sponsored by the WWTF (Wiener Wissenschafts-, Forschungs- und Technologiefonds).

More details on the workshop, the abstract submission and registration, can be found below and at

<http://www.cibiv.at/workshops/masamb11/> Happy New Year 2011 and looking forward to seeing you in Vienna.

Carolin Kosiol and Arndt von Haeseler

Mathematical and Statistical Aspects of Molecular Biology 21st annual MASAMB workshop

Vienna Biocenter 11/12 April 2011

Call for Abstracts

Abstracts for Talks and Posters are invited for the 21st annual MASAMB workshop which will come the first time to the continent and will be held at the Biocenter in Vienna, Austria from the 11th to the 12th April 2011.

Bioinformatics and statistical genetics, twin themes of the long-running series of annual MASAMB meetings, have gained huge impetus from large-scale genome sequencing projects and development of high-throughput biological assay systems, including gene-expression microarrays, next generation sequencing, proteomic and metabolomic technologies. These immense data resources, and the underlying complexities of molecular and cell biology, provide exciting research opportunities for numerate scientists.

With a strictly limited number of participants from mathematics, statistics, computer science, bioinformatics, biology and related fields, the MASAMB meetings provide an intimate setting for exchange of ideas in methodological and applied research. Research students and scientists newly entering the field of genomic research are particularly welcome.

For more information, submission of abstracts and registration please go to:

<http://www.cibiv.at/workshops/masamb11/> Likely topics for sessions this year: Next Generation Sequencing Population Genetics RNA Bioinformatics Phylogeny and Comparative Genomics Systems Biology

Important dates: Registration opens: 15th December 2010 Abstract submission: 15th February 2011 Registration closes: 28th February 2011 Conference: 11th-12th April 2011

Arndt von Haeseler, Center for Integrative Bioinformatics Vienna (CIBIV), Max F. Perutz Laboratories, admin.cibiv@univie.ac.at Carolin Kosiol, Institute of Population Genetics, Vetmeduni Vienna, carolin.kosiol@vetmeduni.ac.at

Carolin Kosiol <carolin.kosiol@vetmeduni.ac.at>

Tuebingen ESEB TravelAwards

*ESEB Travel Award

*These awards are for young scientists (including students) to attend the ESEB meeting in Tübingen in August 2011 (<http://www.eseb2011.de/>).

The award will cover: 1. Support toward travel and living expenses. 2. ESEB Registration fees (based on early member registration fees).

Eligibility: Applications can be submitted by young scientists at various stages of their professional career that do not yet have a permanent position (e.g., Master and PhD students, postdocs). Applicants must be ESEB members (for becoming a member of ESEB, see <http://www.eseb.org/>). Proposals can be submitted several times, but winners are not eligible for a second award for a period of 5 years. They must submit an oral communication or a poster to be eligible for the award.

How to apply: send you application by email to the ESEB Travel Award Committee, c/o Dr. Martijn Egas <C.J.M.Egas@uva.nl>. The application should be no more than 2 pages long and include: name of the applicant; budget, including sources of additional support; an explanation of how attendance to the meeting will further their professional goals; and a CV (preferably as a single PDF-file). A support letter from the applicant advisor/mentor is also required. Support letters should be sent to the same email address (C.J.M.Egas@uva.nl) by the applicant's mentor or senior colleague.

Deadline: 11 February 2011 24:00 GMT.

Sincerely, Tad Kawecki Secretary, the European Society for Evolutionary Biology (ESEB)

tadeusz.kawecki@unil.ch

UAkron SummerUndergraduateResearch

We invite undergraduate students to participate in a summer 2011 Research Experiences for Undergraduates (REU) Program at the University of Akron, sponsored by the National Science Foundation. This REU site program supports collaborative research on "Ecology and Evolution at the Urban-Rural Interface," with opportunities to investigate species, interactions, and ecosystems within human dominated landscapes. Students will be immersed in their own research projects that are part of a larger, interactive team of students and faculty. We offer a stipend, housing, and support for research supplies.

Review of applications will begin February 18, 2011. Women and minorities are strongly encouraged to apply.

For more information, and an application: visit us on the web at <http://www3.uakron.edu/biology/-fieldstation/reu.htm>, contact the Program Director, Dr. Randy Mitchell (330-972-5122 or rjm2@uakron.edu), or write to Biology REU Program, Department of Biology, The University of Akron, Akron, OH 44325-3908.

Dr. Randy Mitchell, Dr. Greg Smith

"Mitchell,Randall J" <rjm2@uakron.edu>

UBasel VolFieldAssist TurtleEvolution

Field assistant in evolutionary ecology of European pond turtles

We are looking for a voluntary field assistant to participate in a conservation project on European pond turtles (*Emys orbicularis*) from mid April to mid July 2011 at the Research Station Petite Camargue Alsacienne in France (www.camargue.unibas.ch).

The work will include caring for the about 80 pond turtles living in the station's outdoor enclosures, capturing the turtles, observing breeding behaviour, locating nests and collecting eggs for artificial incubation in the lab. The applicant is expected to stay for the entire field season from mid April until mid July. Applicants should preferably have some knowledge of French or German. The work is planned as a student internship, thus applicants must be students.

The field site is situated in the nature reserve Petite Camargue Alsacienne in France, about 10 km north of Basel (Switzerland). We cannot cover travel expenses, but we offer free accommodation and use of the infrastructure at the research station.

The position will be filled as soon as possible. Applications should be in English, French or German, and should include, in one single pdf or word file, a curriculum vitae and a letter of motivation. Please provide names and email addresses of two persons who are willing to write a letter of recommendation, and send applications by email to the following address:

PD Dr. Valentin Amrhein Zoological Institute University of Basel pca.recherche@orange.fr

valentin amrhein <pca.recherche@orange.fr>

staff/mourocq gretchen.wagner@iee.unibe.ch

UBern VolunteerFieldAssist BirdEvolution

Expenses paid field assistant positions to study evolution of family living and cooperative breeding in birds

We are seeking additional applicants for field research volunteers for the upcoming breeding season (end of March-July 2011) to join our field project investigating evolution of family living and cooperative breeding in birds. The study population is located near Guadix (Granada, Southern Spain).

Our project researches the shift in parental investment patterns in kin-group living and cooperative breeding birds. The project is based at the University of Bern (Switzerland) (PI Michael Griesser, PhD students Emeline Mourocq & Gretchen Wagner) and is in collaboration with Prof. Manuel Soler (University of Granada).

The work of the volunteers will be to help in carrying out field experiments, locating nests, assisting the PhD students in catching and banding of birds, and data management. This work will give insight into exciting experimental fieldwork and will be carried out in scenic semi-arid habitats close to the Sierra Nevada. We will work 5-6 days per week in the field depending on the work load. Observe that temperatures at the beginning of the field season can be below zero degree, and later on in the breeding season be easily above 35C.

Qualifications: (1) BSc or MSc in Biology, Behavioural Ecology or similar qualification (2) Previous field experience (3) Ability to work in small teams and sociable personality (4) Knowledge in observing & handling birds is a plus (5) Driving licence would be helpful (6) fluent in English (7) Basic knowledge of Spanish would be helpful.

This is an expenses paid field assistant position, covering accommodation, food and travel expenses of up to 300 Euro to and from the study site.

Applications - including a CV, a letter of motivation (1 page) and the name of two referees - should be send to: Emeline Mourocq: emeline.mourocq@iee.unibe.ch and Gretchen Wagner: gretchen.wagner@iee.unibe.ch

Applications received until 1st February 2011 will be given full consideration.

http://www.iee.unibe.ch/content/staff/griesser/-index_eng.html <http://www.iee.unibe.ch/content/>

UNottingham VolFieldAssist ButterflyEvolution

Field assistant in the evolutionary ecology of the Sinai Baton Blue butterfly

The Sinai Baton Blue (*Pseudophilotes sinaicus*) is a Critically Endangered butterfly endemic to just 10 km² of the St Katherine Protectorate, one of the great historic places of the world. Its only host plant, the Sinai Thyme (*Thymus decussatus*), is itself a near-endemic, occurring only on mountaintops above 1800 m. The butterfly is on the wing in May and June, when the plant is flowering. Eggs are laid on flower buds, upon which the larvae feed.

We are looking for a volunteer field assistant to participate in this conservation project from the beginning of April to mid July 2011, to be based at Fox Camp in the town of St Catherine (<http://www.desertfoxcamp.com/>).

The work will involve 4 days per week camping in the high mountains with a Bedouin guide (who will cook meals), followed by 3 days back in camp to recuperate. You will measure butterfly and thyme phenology in various patches of the host plant, and carry out experiments to determine the role of grazing and nutrients on plant and butterfly growth and development.

We cannot cover travel expenses, but there are cheap flights to Sharm el Sheikh, especially by Thomson Flights. We probably will be able to offer free accommodation and food.

The position will be filled as soon as possible. Applications should be in English, and should include, in one single pdf or word file, a curriculum vitae and a letter explaining why you would like to take part in this project. Please provide names and email addresses of two people willing to write a letter of recommendation, and send applications by email to Dr Francis Gilbert at the following address: francis.gilbert@nottingham.ac.uk

Dr Francis Gilbert www.nottingham.ac.uk/~plzfg (+44)(0)115 951 3215

Francis Gilbert <Francis.Gilbert@nottingham.ac.uk>

UTexas Austin PlantAdaptation

Summer Research Opportunities in Plant Biology The University of Texas at Austin Switchgrass Summer Research Program is an opportunity for students to participate in mentored independent research on the biology of switchgrass. The program is funded through the NSF Research Experience for Undergraduates (REU) program and is associated with ongoing interdisciplinary work on the ecology, physiology, and genomic responses of switchgrass (*Panicum virgatum*), a potential biofuel crop, to future climate change. Summer students will be immersed in research and learn basic and applied biology through active participation. As part of our research team, you will contribute to group research projects, design your own short research project, and present your work in an end-of-summer student symposium.

Students in the program will work as part of a research group headed by one of the following UT Faculty:

Dr. Tom Juenger (http://w3.biosci.utexas.edu/~juenger_lab/), Dr. Christine Hawkes (<http://www.biosci.utexas.edu/ib/faculty/hawkes/lab/>), Dr. Tim Keitt (<http://www.keittlab.org/>).

SCHEDULE AND SUPPORT Each REU position is supported for ten weeks. The program runs from the first week in June until the first week of August 2011. Students will be housed in a UT dormitory, and the costs of the dormitory and meal plan are included in the program. Each student will be awarded a stipend of \$4,500 for the summer, and some funds will be available to help defray the cost of traveling to Austin.

WHO SHOULD APPLY? Students in their sophomore or junior years of college, with strong credentials and majoring in ecology, biology, genetics, or related discipline are encouraged to apply. Participants must be U.S. citizens or permanent residents. Students must also be prepared for fieldwork in hot and humid conditions.

APPLICATIONS The application deadline is March 15. Applications should consist of a single pdf file containing a cover letter describing your experience, interests, future career plans, and a copy of your transcripts. The applicant should also see that two letters of recommendation are submitted on their behalf. All materials should be sent via email to: Dr. Tom Juenger

(tjuenger@austin.utexas.edu)

Tom Juenger University of Texas at Austin Section of Integrative Biology 2401 Speedway Blvd. Austin, Texas 78712 512-232-5751 tjuenger@austin.utexas.edu

“Juenger, Thomas E” <tjuenger@austin.utexas.edu>

UVirginia UndergraduateSummerResearch

ANNOUNCING: MLBS Summer 2011 Field Course and REU Opportunities Mountain Lake Biological Station MLBS.org Dear Colleagues and Friends, Mountain Lake Biological Station (University of Virginia) is pleased to announce its summer program of field-based undergraduate and graduate-level credit courses offered by nationally recruited instructors, and its NSF REU undergraduate research internship program, now in its 19th year. Work at MLBS focuses on field-based ecology, evolution, physiology, and behavior. Learn more about the programs or complete an on-line application. Courses web page:

<http://mlbs.org/courses.html> REU web page: <http://mlbs.org/REU.html> Please forward this information to colleagues or students you think might be interested. Thanks for your help! Best wishes, and Happy New Year from all of us at Mountain Lake. **** Learn all about Mountain Lake opportunities at MLBS.org **** And don't forget to join us on Facebook **** Apologies for duplicate mailings.

Eric S. Nagy, Ph.D. Associate Director Mountain Lake Biological Station & Department of Biology University of Virginia tel: +1-434-243-4989 / cel: +1-434-906-3122 eml: enagy@virginia.edu / skype: flightofthesandor web:

virginia.edu/biology/faculty/nagy.htm / mlbs.org
enagy@virginia.edu

Video Analysis Software

Dear All,

Our lab is looking for video analysis software that is relatively low-cost (Å 1000 æ) or even free, that is able to

detect events, (like a bird arriving at a nest), in video we have recorded in the field. The software would need to ignore camera motion and background movement (our cameras are usually attached to a tree branch, and the camera, as well as leaves, etc. are moving), and simply recognize when significantly different events occur.

Does anyone know of a program that would be useful for this, or know someone who would be able to program something capable of doing this? It seems that this would be a task that could be programmed in Python or Fiji, or that Matlab would be able to do it, but we dont have expertise in these areas.

Any advice would be greatly appreciated.

Many thanks.

Gretchen Wagner

PhD Student

University of Bern Institute of Ecology and Evolution
Baltzerstrasse 6 3012 Bern Switzerland

gretchen.wagner@iee.unibe.ch

Yeast asparagine transport mutant

Hi,

Does anyone know of an available *Saccharomyces cerevisiae* asparagine transport mutant?

Many thanks, Alex Wilson

Alex C. C. Wilson, PhD Assistant Professor, Department of Biology, University of Miami Board of the International Aphid Genomics Consortium ~ Regional Representative for The Americas ~ www.aphidbase.com
acwilson@bio.miami.edu <http://www.bio.miami.edu/~acwilson/home.htm> 1301 Memorial Drive, Coral Gables, FL 33146, USA. Cox Science Building, Room 253 Lab: 305 284 2003 - Fax: 305 284 3039

acwilson@bio.miami.edu

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AarhusU TumorEvolution

Postdoc at the Bioinformatics Research Centre, Aarhus University

A postdoc position is available immediately or from as soon as possible.

The ideal candidate has a background in mathematical biology with knowledge of probability theory and some statistics. Knowledge about population genetics and biology is good, but not essential. The work to be done relates to probabilistic modeling of tumor cell evolution using birth-death processes and some techniques/concepts from population genetics. The basic idea is to describe how a population of tumor cells grows/evolves and accumulates genomic changes over time. For this birth-death processes and Markov Chains are used. The work involves mathematical derivation of equations and properties, development of statistical tools for analysis of real data (such as MCMC, ABC, or Importance Sampling methods), and implementation of simulation and analysis tools. The data to be analyzed consists of DNA sequences and other genomic data from real tumors.

The position is for one year, but it might be possible to extend the position for another year depending on funding.

For further information contact Carsten Wiuf, carsten.wiuf@gmail.com or visit my home page <http://www.birc.au.dk/~wiuf>. The theory and modeling developed in Refs 30 and 34 on my home page have direct relationship to the work to be done. To apply, send me your CV and publication list and a few words about your previous experiences and expectations.

Carsten Wiuf <carsten.wiuf@gmail.com>

Almeria Spain EvolutionPollination

It is possible to apply for three different Postdoctoral positions to work on the evolutionary ecology of pollination at the Estación Experimental de Zonas Áridas (EEZA, CSIC) in Almeria, Spain. The centre is relatively small and a bit out of the way, but the research group is actively collaborating with researchers

in France, Sweden and Australia and living standards in Almeria are high, with plenty of tapas bars in town, a beautiful coastline and Sierra Nevada just two hours away.

Application deadlines for the different positions vary, but because I will be travelling to Antarctica on January 12th with very little email contact during the (approx) ten days that I will need to reach our base camp (where I will have once again access to email), it would be best if candidates interested in applying for these positions contact me as soon as possible.

The main features of the different positions are described below

Juan de la Cierva (JC) fellowship This 3-year fellowship is intended for promising young researchers, who have completed their PhD after September 1, 2007. (Those who have done their military service, given birth etc after their PhD may have finished a bit earlier) The fellowship provides only a salary for the selected candidate, and research must be funded by the group that the candidate joins. In practice, this means that (unless the candidate can obtain independent research funds), s/he would have to work (broadly) on how pollinators perceive colours, and the implications of colour vision for the evolution of plant-pollinator relationships.

JAE fellowship This 3-year fellowship is very similar to the JC program, except that it is intended for researchers with a proven record. Candidates must have completed their PhD within the last 10 years.

Ramón y Cajal (RyC) fellowship This is a five-year fellowship intended for candidates with a proven research record. It is very competitive, and candidates must have completed their PhD in the last 10 years. Other than the salary, successful candidates are awarded 15.000 Euros to fund their research during the first year, and they are supposed to obtain independent funds to complete their research project. In practice, this means that proposals for RyC fellowships are more flexible, and candidates interested in any area of pollination ecology should feel free to contact me.

Candidates interested in applying to any of these grants should contact me, sending a copy of their CV and a couple of lines about their research interests.

Miguel A. Rodríguez-Gironés Estación Experimental de Zonas Áridas, CSIC Carretera de Sacramento s/n La Cañada de San Urbano, 04120 Almeria, Spain rgirones@eeza.csic.es <http://www.eeza.csic.es/-eeza/personales/rgirones.aspx> rgirones@eeza.csic.es

ChicagoBotanicGarden PlantSpeciesDistributions

Postdoctoral Research Associate in Species Distribution Modeling

The Plant Science and Conservation department at the Chicago Botanic Garden is seeking a Post-Doctoral Research Associate to develop geospatial models to address key questions about the relationships between species ranges of rare plants and cactus and climate change. The successful applicant will develop species distribution models that generate predictions of species range shifts at both the local and continental scale, utilizing NatureServe data. Ground-truthing a substantial percentage of the models generated, particularly in the inter-mountain region of the Western United States, will also be required. As the project proceeds, and as data availability permits, integrating population dynamic models of key species may also be undertaken. The applicant will be expected to participate in active conservation program, and teach one GIS related course per year.

A background in GIS/RS and geospatial modeling/spatial statistics is required. Experience with MaxEnt or other species distribution modeling is ideal, and familiarity with or a strong interest in population modeling is highly desirable. Proficiency in spoken and written English is an absolute necessity. Given the multidisciplinary nature of the research, a highly self-directed, creative and self-motivated individual is sought. The applicant will be expected to publish peer-reviewed journal articles and effectively communicate with a wide range of scientists, conservation professionals, agency personnel and policymakers. This position is funded for three years.

Please send curriculum vitae, a statement of professional interests including relevant coursework and experience, and arrange for three (3) letters of recommendation to: Pati Vitt, Chicago Botanic Garden, 1000 Lake Cook Road, Glencoe, IL 60022. Closing date: January 21, 2011.

nzerega@chicagobotanic.org

ClemsonU MarineLarvalEvolution

Postdoctoral Research Position - Marine larval physiology and evolution

A postdoctoral position is available immediately to study developmental, biochemical, physiological, and ecological responses of marine invertebrate larvae to temperature in the laboratory of Amy Moran, Department of Biological Sciences, Clemson University (<http://www.clemson.edu/~moran>). Research will focus on the role of larval thermal environment in determining larval success, connectivity among populations, and species range limits. A Ph.D. is required for this position, and outstanding experience in ecological or comparative physiology, marine biology, molecular biology, or a related field is also required. Preference will also be given to applicants with expertise in rearing larval stages of marine organisms. Experience in molecular, physiological, and biochemical techniques, including biochemical and enzyme assays and/or analysis of gene expression, would also be valuable. Applications from individuals with a background in integrative biology are especially welcomed. Review of applications will begin immediately and continue until a candidate is selected. The start date is flexible but should be within 6 months. Primary consideration will be given to applications received before March 1, 2011.

To apply for this position, please send a cover letter, statement of research interests and goals, CV, and names of three persons willing to provide letters of recommendation to: moran@clemson.edu (email preferred) or to

Dr. Amy Moran Department of Biological Sciences 32 Long Hall, Clemson University Clemson, SC 29631

Clemson University is an Equal Opportunity/Affirmative Action employer committed to increasing the diversity of the faculty, staff and students.

Amy Moran <MORAN@clemson.edu>

CornellU ComputationalGenomics

Postdoctoral position: Functional/Computational Genomics / Drosophila gut microbiome Cornell University
Angela Douglas, Brian Lazzaro, and Andrew Clark

A postdoctoral position is available immediately to work with the research groups of Drs. Angela Douglas, Brian Lazzaro and Andy Clark at Cornell University, joining a group of investigators using integrated computational and empirical approaches to tackle current problems in Drosophila nutritional genomics.

The research project investigates the impacts of resident gut microbiota on host nutrition. The specific role of this position is to infer the impact of perturbing the gut microbiota on Drosophila gene regulatory networks, by analysis of next-generation transcriptome data, expression microarrays and qRT-PCR experiments.

The ideal candidate will have a strong quantitative background, including substantial programming experience of expression microarrays and/or next-gen sequences. Candidates who combine this expertise with relevant experimental skills are preferred, but bioinformaticians with a track-record and commitment to team-working with experimental colleagues are also strongly encouraged to apply

Our three laboratories are part of the broader population genomics community at Cornell, organized cohesively through the Cornell Center for Comparative and Population Genomics (<http://www.3cpg.cornell.edu>). Competitive salaries commensurate with experience and skills will be offered, as well as generous benefits.

Interested applicants should send a PDF with CV and contact information for three references to aes326@cornell.edu. Informal inquiries are welcome.

Angela E. Douglas Daljit S. and Elaine Sarkaria Professor of Insect Physiology and Toxicology Department of Entomology 5134 Comstock Hall, Cornell University Ithaca, NY 14853 Tel: +1-607-255-8539 Email aes326@cornell.edu <http://www.angeladouglaslab.com> <http://www.sarkaria-institute.org> Brian P. Lazzaro Department of Entomology 3125 Comstock Hall Cornell University Ithaca, NY 14853 Tel: 607-255-3254 Email: bl89@cornell.edu <http://entomology-lamp.cit.cornell.edu/lazzaro/index.html>

Andrew Clark Department of Molecular Biology and Genetics 227 Biotech, Cornell University, Ithaca, NY 14853 Tel: 607-255-0527 Email: ac347@cornell.edu <http://mbg.cornell.edu/cals/mbg/research/clark-lab>
ac347@cornell.edu

Donana Spain 4 ClimateAdapatation

Doñana Biological Station, Spain (EBD-CSIC). Two Genomics positions available.

We are seeking to hire two researchers (PhD degree is required) in Genomics, under the 7th Framework Programme- European Project ECOGENES "Adapting to Global Change in the Mediterranean hotspot: from genes to ecosystems".

The characteristics of the offered positions, the scientists responsible, and the candidate's profiles can be consulted in: <http://www.ebd.csic.es/-ecogenes/news.html> Duration of the positions is 30 months/person, starting tentatively in April or May 2011. Successful candidates will be fully participating members of the relevant Department at Doñana Biological Station; they will be expected to participate in running projects, fundraising as well as dissemination and support in their respective areas of expertise.

Interested candidates can contact the project coordinator, Juan José Negro: coordinacion@ebd.csic.es and send him before mid February 2011, in advance of the official application process: a cover letter, a curriculum vitae, and a short (1-3 pages) description of past research accomplishments and future research plans.

Doñana Biological Station, Spain (EBD-CSIC). Two Ecological Modelling positions available.

We are seeking to hire two researchers (PhD degree is required) in Ecological Modelling, under the 7th Framework Programme- European Project ECOGENES "Adapting to Global Change in the Mediterranean hotspot: from genes to ecosystems".

The characteristics of the offered positions, the scientists responsible, and the candidate's profiles can be consulted in: <http://www.ebd.csic.es/-ecogenes/news.html> Duration of the positions is 30 months/person, starting tentatively in April or May 2011. Successful candidates will be fully participating members of the relevant Department at Doñana Biological Station; they will be expected to participate in running projects, fundraising as well as dissemination and support in their respective areas of expertise.

Interested candidates can contact the project coordinator, Juan José Negro: coordinacion@ebd.csic.es and

send him before mid February 2011, in advance of the official application process: a cover letter, a curriculum vitae, and a short (1-3 pages) description of past research accomplishments and future research plans.

Begoñía Arrizabalaga <begoa@ebd.csic.es>

EmoryU VertebrateVisionEvolution

Postdoctoral positions are available to work on molecular genetics and evolution of dim-light and color vision.

For the last two decades, we have been studying the molecular genetics and evolution of dim-light and color vision in a diverse range of species, from fish to human. We are currently cloning the opsin genes of various deep-sea fishes, including lampfish, loosejaw, scabbardfish, thornyhead, and viperfish, which live at the depths of 200-4,000m. Among these, the lampfish and viperfish emit bioluminescence at ~480 nm and the loosejaw at ~480 and ~700 nm. We plan to explore three features of visual pigments: 1) the molecular and chemical bases of the spectral tuning in visual pigments; 2) exploration of adaptive evolution by engineering ancestral pigments and performing mutagenesis analyses; and 3) coevolution of paralogous pigments in each of the deep-sea fish species. In experiments, molecular/cellular methods, such as construction and screening of DNA and cDNA libraries, DNA sequencing, mutagenesis, and transfection of cultured cells are heavily used. We also conduct QM/MM analyses in theoretical chemistry to study the chemical mechanisms of adaptive evolution.

Selected references:

Yokoyama, S., Tada, T., Zhang, H. and Britt, L. (2008) Elucidation of phenotypic adaptations: molecular analyses of dim-light vision proteins in vertebrates. *PNAS* 105: 13480-13485.

Yokoyama, S. (2008) Evolution of dim-light and color vision pigments. *Annu. Rev. Genomics Hum. Genet.* 9: 259-282.

Tada, T., Altun, A. and Yokoyama, S. (2009) Evolutionary replacement of UV vision by violet vision in fish. *Proc. Natl. Acad. Sci. USA* 106: 17457-17462.

Altun, A., Yokoyama, S. and Morokuma, K. (2009) Color tuning in short wavelength-sensitive human and mouse visual pigments: Ab initio quantum mechanics/molecular mechanics studies. *J. Phys. Chem. A* 113: 11685-11692.

Currently, we are looking for recent graduates who are well versed in experimental molecular biology/genetics. If you are interested, please send your CV to Shozo Yokoyama (syokoya@emory.edu).

Shozo Yokoyama, Ph. D. Asa G. Candler Professor of Biology Department of Biology Emory University 1510 Clifton Road Rollins Research Center Atlanta, GA 30322 Tel:404-727-5379 FAX:404-727-2880

syokoya@emory.edu

Finland ForestPopulations

Postdoctoral position at the Finnish Forest Research Institute

The Finnish Forest Research Institute (Metla) announces an open postdoctoral researcher position for the period 01.03.2011-28.02.2013 (starting time negotiable) at Metla's Suonenjoki Research Unit (<http://www.metla.fi/su/index-en.htm>).

The successful candidate will work in the ongoing research project "Individual health and dynamics of natural populations" funded jointly by the Academy of Finland and Metla. The international project is led by Doc. Otso Huitu (Metla, Finland), including as members Prof. Heikki Henttonen (Metla, Finland), Prof. Nigel Yoccoz (Univ. Tromsø, Norway), and Prof. Tapio Mappes (Univ. Jyväskylä, Finland), together with a number of expert collaborators.

The project addresses the roles of food quantity and quality as determinants of the physiological and immunological health state of individuals and how variation in these factors predisposes individuals to parasite and pathogen infection and ultimately reflects onto population dynamics. As model species we use the field vole, *Microtus agrestis*, which in northern Europe exhibits pronounced multiannual population cycles. Tasks inherent to the position include planning and partaking in large-scale, year-round monitoring and experimentation in field conditions, laboratory work, data analyses and writing of scientific manuscripts. The candidate is expected to participate in the supervision of one or more Ph. D. and M. Sc. students during the funding period.

The applicant is required to have a Ph. D. or equivalent degree in ecology with prior experience in immunological, physiological or nutritional ecology and/or plant-herbivore interactions. Active contribution to the

project in the applicant's own field of expertise is essential. The applicant must be willing and able to travel and to work with flexible hours, occasionally under harsh field conditions. A valid driver's licence is essential.

Salary is based on the incentive system terms set by Metla, with a grade of 7-8 (2405.63-2587.31 Åeuro /month) depending on the competence of the person. In addition, an incentive part of the salary is paid, which may at maximum be 50 % of the salary level.

To apply, please send 1) a letter stating your research interests, 2) your CV and 3) the contact information of two references. Applications are to be submitted by e-mail to otso.huitu@metla.fi.

The deadline for applications is the 31st of January 2011 at 16:00.

For further information, contact researcher Otso Huitu, e-mail: otso.huitu@metla.fi, tel. +358 50 391 4917

Otso.Huitu@metla.fi

GifsurYvette MaizeGenomeVariability

Background The "Institut national de la Recherche Agronomique" (INRA) is starting a new ANR-funded project to study genome structural variation in maize. This project will be based on the assembly of whole genome shotgun datasets from a European maize line. This work will be complementary to other sequencing international efforts on other maize lines. The main goal will be to characterize line-specific genomic regions in order to build a maize pangenome containing European-specific sequences. This resource will be crucial to describe the extent of maize structural variation and its contribution to agronomical traits.

Job description A post-doctoral position is immediately available at the UMR de Génétique Végétale (<http://moulon.inra.fr>, Gif-sur-Yvette, 10km from Paris) to work on whole-genome assembly of maize genome. Datasets will include sequence data from Roche/454 and Solexa platforms. The main goal will be to discover and characterize regions of the maize genome that are specific to a European line. These genomic regions will be included in a maize pangenomic sequence and will serve as a resource to build a maize Comparative Genomic Hybridization array in close collaboration with the Nimblegen company and the P. Schnable lab in

Ames (Iowa, USA). The successful candidate will work with two bioinformatics groups at INRA and Biogemma and will benefit expertise from the French National Sequencing facility ("Centre National de Séquençage" (CNS), Evry).

Profile: - A PhD in bioinformatics or related area - Knowledge of next generation sequencing technologies and the data produced by these platforms - Strong background in sequence analysis and genome assembly - Advanced skill in the use of Perl or a comparable scripting language to program, modify, analyze, and organize data - Experience with cluster computing

The duration of the position will be at least 2 years and is funded by ANR

To apply: send by email a CV, statement of research interests, and the names and contact information for three references.

Applications and inquiries should be addressed to:

Johann Joets, PhD Head of the lab Bioinformatics Group joets@moulon.inra.fr

AND Stéphane Nicolas, PhD CNV_maize project PI snicolas@moulon.inra.fr

Hannover Germany TrichoplaxEvolution

Postdoctoral and PhD position available immediately in the Schierwater lab at TiHo Hannover (Germany) for a motivated young investigator to undertake molecular genetic studies on Trichoplax and other placozoans. Interest in fundamental questions of evolutionary adaptation, development, comparative genomics and systematics is essential. Experience with molecular systematics and genetics and interest also in field work is desirable. The successful candidate will have ample opportunity to pursue additional projects within the broad molecular ecology/evolutionary genetics scope of the institute. Our setting and facilities for marine biological research on placozoans are outstanding.

Please email CV, brief statement of research interests and experience.

and list of 3 references to Bernd Schierwater (bernd.schierwater@trichoplax.com ; bernd.schierwater@ecolevol.de).

Bernd Schierwater

ITZ Ecology & Evolution

TiHo Hannover

Buenteweg 17d

30559 Hannover

Germany

www.ecolevol.de . bernd schierwater
<bernd.schierwater@ecolevol.de>

Director, Center for Communicable Disease Dynamics Harvard School of Public Health <http://www.hsph.harvard.edu/faculty/marc-lipsitch/> <http://ccdd.hsph.harvard.edu> (617) 432-4559

<mlipsitc@hsph.harvard.edu>

mlipsitch@gmail.com

Harvard HIV transmission modeling

Postdoctoral Position in HIV Transmission Dynamics-Modeling Harvard School of Public Health (HSPH)

One postdoctoral fellow is sought to join the CEPAC (Cost Effectiveness of Preventing AIDS Complications) Dynamic modeling team centered at Harvard School of Public Health and Massachusetts General Hospital. The CEPAC Dynamic model is a stochastic, agent-based model of HIV transmission that uses the CEPAC model of HIV natural history as a basis for the transmission from infected individuals over time. A prototype version of the model already exists; the postdoctoral fellow will test, expand, and apply the model to answer important questions about the transmission-dynamic consequences of interventions to prevent and treat HIV infection. The best-qualified individual for this position will have experience in several of the following domains: excellent C++ programming ability, knowledge of cost-effectiveness modeling, knowledge of transmission-dynamic modeling, knowledge of HIV treatment and prevention policy questions.

The individual will work at the Department of Epidemiology at HSPH, located within an HIV epidemiology research group (PI: George Seage) and will have the opportunity to interact with colleagues in the Center for Communicable Disease Dynamics (<http://ccdd.hsph.harvard.edu>) as well as other parts of the school. The project will be in close collaboration with the CEPAC research group at the Program in HIV Clinical Epidemiology and Outcomes Research at the Harvard Center for AIDS Research and Massachusetts General Hospital (PI: Kenneth Freedberg). This position is funded for two years. Interested individuals should email a statement of purpose, a CV, and contact information for two references to Project Director, Alethea McCormick at AMCCORMI@hsph.harvard.edu.

Marc Lipsitch, DPhil Professor of Epidemiology

KansasStateU EvolutionThermotolerance

2 Postdoctoral Positions in Genomics and Physiology of Thermotolerance Adaptation at Kansas State University and The University of Florida

Local adaptation to climate is common among plants and ectotherms as evidenced by consistent latitudinal and fine-scale geographic clines in thermotolerance. As climates change in both yearly averages and in the frequency of extreme events it is increasingly important to understand the potential for thermotolerance evolution. This project will address the following questions: What are the naturally segregating genomic regions that affect standing variation in cold tolerance? What are the biochemical and physiological mechanisms that underlie the evolution of cold tolerance? How does standing genetic variation modify these mechanisms to produce variation in whole-organism phenotypes? Two postdoctoral positions are available to join a collaborative research project that integrates the genetic and physiological mechanisms underlying cold adaptation in the model fruit fly, *Drosophila melanogaster*.

These positions are part of a multi-investigator project lead by Ted Morgan at Kansas State University (www.ksu.edu/morganlab) and Dan Hahn at The University of Florida (entnemdept.ufl.edu/hahn/lab/danhahn.htm), and will be performed in collaboration with Art Edison at The University of Florida (<http://edison.mbi.ufl.edu/>) and David Allison at the University of Alabama - Birmingham (<http://www.soph.uab.edu/ssg/people-davidallison>). Both of the positions will be highly collaborative and integrative in nature, but one position will be housed in the Division of Biology at Kansas State University and one position will be housed in the Department of Entomology and Nematology at The University of Florida.

Preference will be given to candidates with a strong background in evolutionary biology and/or physiology,

and training in one or more of the following areas: quantitative genetics, molecular biology, molecular genetics, genomics, proteomics, and metabolic biochemistry/physiology. Activities in the Morgan lab will include high- throughput quantitative genetic and genomic studies of natural variation in cold tolerance, while activities in the Hahn lab will investigate the downstream consequences of this genetic variation on whole-organism physiology and performance. Both positions will also require the analysis of data, the preparation of manuscripts, the mentoring of undergraduate research assistants, public outreach, and the participation in workshops on career development. The specific details of each position will vary slightly depending on the lab. Finally, there will also be considerable opportunity for individuals to develop new research directions including GxE and comparative studies of thermotolerance outside *Drosophila melanogaster*.

Applicants who are focused on evolution and quantitative genomics should contact Ted Morgan (tjmorgan@ksu.edu), while applicants focused on physiology and organismal performance, functional “omics”, and metabolic network reconstruction should contact Dan Hahn (dahahn@ufl.edu). To apply, applicants should send a CV, a letter stating specific research interests, a summary of research accomplishments and future research objectives, and the names and contact information for three professional references as a single pdf file to Morgan or Hahn at the email addresses above. Review of applications will begin January 31 and continue until the position is filled. The start date is negotiable. Background check is required.

KSU & UF are equal opportunity employers that actively seek diversity among their employees.

Theodore Morgan Division of Biology Kansas State University 116 Ackert Hall Manhattan, KS 66506 office: 785.532.6126 lab: 785.532.6074 fax: 785.532.6653 Email: tjmorgan@ksu.edu www.ksu.edu/morganlab iChat A/V: theodore_morgan@MAC

tjmorgan@ksu.edu

MaxPlanck GuppyGenome

Postdoctoral research opportunity in bioinformatics analysis of guppy whole genome sequencing

The Trinidadian guppy, *Poecilia reticulata*, represents one of the best vertebrate models for the study of

how phenotypic variation within a population is linked to adaptation to specific environmental conditions. Guppy male ornamental patterns provide an instructive example of male advantageous traits that are inherited in a sex-linked manner. We have previously established a dense genetic map of the guppy, and are currently assembling and annotating the guppy transcriptome. Recently we embarked on guppy whole-genome analysis by next-generation DNA sequencing (Illumina). This project will be fundamental to our understanding of natural variation, adaptation to contrasting habitats, as well as comparative genomics and sex chromosome evolution. For de novo and homology-guided assembly and analysis of genomic sequences we seek an applicant with significant experience in handling of next generation deep sequencing data, SQL databases, and expertise in a script-oriented (Perl/Python) and an object-oriented (Java/C++) computer language. Successful applicants are expected to have significant computer science skills and the ability and motivation to collaborate with biochemists and biologists in a team.

This project is jointly supervised by Detlef Weigel and Christine Dreyer, who are leading a highly interactive international team working at the cutting edge of natural variation and evolution in animals and plants.

Applications should be directed by e-mail to

Prof. Dr. Christine Dreyer Max-Planck-Institut für Entwicklungsbiologie Abt. Molekularbiologie Speemannstr. 37-39

christine.dreyer@tuebingen.mpg.de <http://www.weigelworld.org/research/projects/-guppyvariation/> The Max Planck Society is an equal opportunity employer and is committed to improving opportunities for women in science.

christine.dreyer@tuebingen.mpg.de

Montpellier PlantGenomics extended

A post-doctoral position, funded by the National Institute for Agronomical Research (INRA France) is available to analyze population genomics data in the model legume species *Medicago truncatula*. The position will be in the team DAVEM (Diversity and Adaptation of Mediterranean species) in Montpellier.

The postdoctoral fellow will contribute to the AR-CAD sub project 'Crop adaptation to climate changes'

(funded by Agropolis Foundation, Montpellier), aiming at identifying the genetic and evolutionary processes involved in the adaptation of plant populations to heterogeneous environments.

The main role of the postdoctoral fellow will be to explore genome-wide data on sequence polymorphism in a large set of individuals collected along climatic gradients, in order to identify the genetic bases of local adaptation to varying climate conditions. Analyses will be focussed on flowering time candidate genes. The research will be part of a collaborative project, involving our group and the University of Minnesota (team leader: N. Young), where the high throughput re sequencing project in *Medicago truncatula* was conducted on a large collection of plant material (ca. 192 individuals) from the French National Collection of *Medicago truncatula* managed in our laboratory. The successful candidate will work in collaboration with both biologists (population and quantitative geneticists) and the BioInformatic group of the AGAP unit (Manuel Ruiz's Team).

Conditions for eligibility:

- The candidate should either be a non-French citizen or have a double nationality.
- Applicants must have completed their PhD before starting the position.
- An experience in population genomics using high throughput sequence data is required, as well as good programming skills.
- Familiarity with bio informatics will be appreciated

Working conditions:

- The position is available as soon as possible and will be funded until December 2012.
- The net salary will be between 1800 and 2000 euros per month.
- The work will be based at the INRA unit of Melgueil near Montpellier (~15km) for the 6 first months and then on the SupAgro campus (Agronomic High school) in Montpellier. The main contact at both locations will be Joëlle Ronfort.

How to apply: Send before February 12th the following information through e-mail to joelle.ronfort@supagro.inra.fr

- one detailed CV
- pdfs of publications
- a short statement of research interests and experience describing your qualifications for this position,
- two letters of support sent separately

Please contact Joelle Ronfort (Joelle.Ronfort@supagro.inra.fr) for more details about the project, the lab, and/or Montpellier.

gayl@supagro.inra.fr

NatInstGenetics MishimaJapan GenomeEvolution

Invitation to apply for NIG Postdoctoral Fellow Saitou Laboratory, National Institute of Genetics (NIG), Mishima, Japan Lab Home Page: <http://sayer.lab.nig.ac.jp/> We are studying various aspects of genome evolution in wide spectrum of organisms, from human to bacteria in our laboratory at NIG.

Kenta Sumiyama (<http://sayer.lab.nig.ac.jp/~sumiyama/index-e.html>), assistant professor in Saitou laboratory, is studying evolutionary mechanisms at genomic level regarding innovation in the body plan evolution of vertebrates. He aims to identify genomic regions that enabled phenotypic evolution, through bioinformatics and genetically engineered animal systems. His current theme is analyzing cis-regulatory elements of the mammalian homeobox genes that confer the body plan innovations. We are seeking for a motivated postdoc candidate for this project. Experiences in molecular biology and/or genetic engineering in developmental biology are desirable. Having skills in bioinformatics is preferable, but not prerequisite for application. One can learn computer analysis techniques after joining our lab. Please ask Kenta Sumiyama (ksumiyam@lab.nig.ac.jp) for project details.

Please download pdf file at "NIG Postdoctoral Fellows 2011" at NIG Home Page (<http://www.nig.ac.jp/index-e.html>) to obtain detailed information on this fellowship.

Expected date of job starting: April 1, 2011 Deadline of application: February 14, 2011 We will ask candidate person to give presentation via internet if one is currently out of Japan.

Saitou Naruya Professor, Division of Population Genetics, National Institute of Genetics Professor (concurrent), Department of Genetics, School of Life Science, Graduate University for Advanced Studies Professor (concurrent), Department of Biological Sciences, Graduate School of Science, University of Tokyo Council Member (concurrent), Japan Science Council

Home Page: sayer.lab.nig.ac.jp/~saitou/ Postal address: Mishima, 411-8540, Japan TEL/FAX +81-55-981-6790/6789 Email: saitounr@lab.nig.ac.jp

nsaitou@genes.nig.ac.jp

Norway ComparativeGenomics

Postdoctoral Researcher: Comparative Genomics and Transcriptomics in Marine Animal Systems

The Sars International Centre is a partner of the European Molecular Biology Laboratory (EMBL) and a department of Uni Research AS, affiliated with the University of Bergen. The Centre is focused on basic research in marine molecular biology, developmental biology and evolution, through genetic and comparative studies of invertebrates and vertebrates.

The Comparative Developmental Biology of Animals research group (Group Leader Andreas Hejnol) is now offering one postdoctoral position for two years. The group is interested in the evolution of cell types and organ systems and studies the development of different invertebrate taxa at the cellular and molecular level. Research in the group combines the use of advanced microscopical techniques with molecular approaches in diverse marine organisms.

The position involves the analyses and de novo assembly of genomes and transcriptomes of a broad range of marine and freshwater animals. Focus of the analyses will be on evolutionary and developmental biological aspects, such as gene content, gene clustering, and analyses of cis- and trans- regulatory elements and a comparison with other genomes. Furthermore, quantitative gene expression profiling using next-generation sequencing methods (e.g. RNA-Seq) will strongly connect the bioinformatics approach to ongoing lab projects. The candidate will be given the opportunity to contribute to wet-lab projects.

Applicants should have previous experience with de novo genome assembly and transcriptome analyses using new sequencing platforms. Experience in comparative genomics and transcriptomics is wanted. Applicants should have an interest in evolutionary and developmental biology of animals and prior practical experience with molecular methods is of benefit.

The position is available immediately; the start date is negotiable.

The salary for Postdoctoral Researchers (code 8151) starts at NOK 447.178.

Uni Research has employee insurance and pension agreements and is an equal opportunity employer. For further information regarding the position and scientific content of the project please contact Dr. Andreas Hejnol, Group Leader: andreas.hejnol@sars.uib.no.

Written application, in English, should include a C.V., a summary of educational and work experience, a brief statement of research interest and contact information for two references. Please mark application 11 Sars 02 and mail to: Head of Administration, Sars Centre, Bergen High Technology Centre, Thormøhlensgt. 55, N-5008 Bergen, Norway. Deadline for applications is 18 February 2011.

Please note that applications sent by e-mail will not be considered.

Andreas Hejnol, Group Leader Sars International Centre for Marine Molecular Biology Thormøhlensgate 55 NO-5008 Bergen NORWAY

Phone: +47 55 58 43 28 Fax: +47 55 58 43 05 email: andreas.hejnol@sars.uib.no

<http://www.sars.no/research/HejnolGrp.php> Open Access Journal "EvoDevo" <http://evodevojournal.com>
Andreas.Hejnol@sars.uib.no

Portugal Celegans ExperimentalEvolution

ERC POSTDOCTORAL POSITION - C. ELEGANS EXPERIMENTAL EVOLUTION SECOND CALL 20 JANUARY 2011

A postdoctoral position is open in the laboratory of H. Teotónio at the Instituto Gulbenkian de Ciência (IGC), Oeiras Portugal (www.igc.gulbenkian.pt).

PROJECT: Research will be on the genetic basis of adaptation to novel environments, in particular on the evolution of phenotype distributions in heterogeneous environments using populations of *C. elegans* manipulated in their mating system and standing levels of genetic variation. We aim to describe adaptation in life-history and gene expression phenotypes, and correlate them with genome-wide patterns of DNA sequence variation during long-term experimental evolution. The specifics of the project will be defined according to the applicant interests and experience.

REQUIREMENTS: PhD in evolutionary genetics and interest in the topics of adaptation from standing genetic variation, evolution of phenotypic plasticity, and mating system evolution. The ideal candidate will have a strong background in quantitative genetics (analysis of selection gradients, estimation of breeding values, QTL mapping) and/or population genetics of DNA sequence data (comparative analysis of single and multi-locus diversity measures). Although not essential, experience with culturing model organisms in the lab is preferred, as well as experience with basic molecular biology techniques. The candidates are expected to have the computational skills to conduct multivariate statistical analysis and data management. Candidates with a PhD in theoretical evolutionary genetics will also be considered.

FUNDING and STARTING DATE: The postdoctoral position is funded by the European Research Council (ERC), for a starting monthly salary of about euro 2200, plus social benefits. The successful applicant can start as soon as March 2011. Yearly evaluations of performance will determine the renewal of the contract for up to a maximum of four years.

APPLICATIONS: A CV, a letter of motivation and the contact information of two referees should be sent by email to teotonio@igc.gulbenkian.pt. The call will remain open until a suitable candidate is found.

teotonio@igc.gulbenkian.pt

RutgersU PlantMolecularEvolution

Post-doc: Plant molecular ecology/ landscape genetics, Rutgers Univ

A post-doc position is now available to work on statistical aspects of landscape patterns of contemporary gene flow through seeds and/or pollen. The position is funded by an NSF award to Peter Smouse (Rutgers) and Victoria Sork (UCLA) to study gene flow in California savanna oaks (*Q. lobata* and *Q. agrifolia*). The individual will work most closely with Smouse at Rutgers on programming, data analyses, and manuscript preparation, using existing data sets on local and range-wide scales, with the opportunity to develop and integrate new approaches to landscape genetics, building on and extending our existing framework (e.g., Grivet, Robledo-Arnuncio, Smouse, Sork, 2009 *Mol Ecol.* 18, 3967-3979; Scofield, Sork, Smouse, 2010, *J*

Ecol. 98, 561-572). As part of a collaborative project with V Sork, the position will include travel to field sites and/or short stays at UCLA.

Qualifications include: strong background in population genetics, plant molecular ecology, or landscape genetics; expertise in R and Python, Perl, or C++; knowledge of GIS; successful early publication record.

Candidates should email letter of interest, research statement, CV, and names of three references with contact information to Peter Smouse (smouse@AESOP.Rutgers.edu). Please assemble documents in a single PDF file with your last name in document name. Review of applications will begin immediately.

The position may begin as early as 1 April 2011, and funding is available for 9-12 months. Questions may be directed to Peter Smouse (smouse@AESOP.Rutgers.edu).

Victoria Sork <vlsork@ucla.edu>

ScrippsInst MarineEvolutionaryGenomics

Postdoctoral position available immediately (one year, renewable) in the Burton lab at Scripps Institution of Oceanography (SIO) for a motivated young investigator to undertake physiological and molecular genetic analyses of hybrid breakdown and local adaptation in the intertidal copepod *Tigriopus californicus*. Interest in fundamental questions of evolutionary adaptation and speciation is essential. Experience with RNAi, functional genomics and transcriptome analysis is highly desirable. The successful candidate will have ample opportunity to pursue additional projects within the broad molecular ecology/evolutionary genetics scope of the lab. See <http://web.mac.com/ronburton1/iWeb/-Site/Home.html> SIO is a unit of the University of California, San Diego, which ranks as one of the elite research universities in the world. The setting and facilities for marine biological research are outstanding.

Please email CV, brief statement of research interests and experience. and list of 3 references to Ron Burton (rburton@ucsd.edu). Review of applicants will begin Jan 14.

– Ron Burton Marine Biology Research Division Scripps Institution of Oceanography University of California, San Diego La Jolla, CA 92093-0202 <http://>

/web.mac.com/ronburton1/iWeb/Site/Home.html
rburton@ucsd.edu

Spain Evolutionary Biol

ANNOUNCEMENT

Opportunities for research positions at Doña Ana Biological Station, Spain (EBD-CSIC).

A recent Grant Agreement between Doña Ana Biological Station (EBD-CSIC, Sevilla, Spain) (<http://www.ebd.csic.es/WebSite1/Principal.aspx>) and the EU (Capacities Programme) includes the contracting of 8 researchers in three different areas.

EBD-CSIC invites applications for eight research positions which will become available under the 7th Framework Programme- European Project ECOGENES "Adapting to Global Change in the Mediterranean hotspot: from genes to ecosystems". The jobs are in the framework of Genomics (2 positions), Ecological Modelling (3 positions, 1 with a more general profile for bioinformatics) and Ecophysiology (3 positions, two of them for avian physiology and one for stable isotope analysis). The characteristics of the offered positions, the scientists responsible of each area, and the candidate's profiles can be consulted in <http://www.ebd.csic.es/WebSite1/Investigacion/Doc/InformationEcoGenesvacancies.pdf>. Duration of the positions is 30 months/person, starting tentatively in April or May 2011. Successful candidates will be fully participating members of the relevant Department at Doña Ana Biological Station; they will be expected to participate in running projects, fundraising as well as dissemination and support in their respective areas of expertise.

Interested candidates can contact the project coordinator (Juan José Negro, negro@ebd.csic.es) and send him before January 24th 2011, in advance of the official application process: a cover letter, a curriculum vitae, and a short (1-3 pages) description of past research accomplishments and future research plans.

"\ Jos   A. Godoy\ " <godoy@cica.es>

SunYatsenU EvolutionReproduction

Announcing a Two-Year Post-doctoral Fellowship in Evolutionary Ecology

A collaborative study between faculty members of

Sun Yat-sen University, Guangzhou, China and University of California, Los Angeles, U.S.A.

Drs. Fangliang He, Patricia Adair Gowaty, and Stephen P. Hubbell are searching for a Postdoctoral Fellow to pursue collaborative, theoretically motivated, experimental studies in the evolution of reproductive decisions of individuals collected from wild-living populations of native species of Chinese *Drosophila*. The formal post-doctoral appointment will be from SYSU.

This is an extraordinary opportunity for adventurous, bold, and creative individuals seeking postdoctoral employment. The settings in SYSU and UCLA are remarkable with funding adequate to pursue cutting-edge experimental work informed by novel theory. This is part of an ambitious collaboration between the Gowaty/Hubbell Lab and He Lab, aiming to understand the evolutionary basis of biodiversity maintenance through intercontinental comparisons.

The successful candidate will have demonstrated knowledge and skills in the culture, handling, and maintenance of captive *Drosophila*, possess quantitative and statistical skills, and willingness to do experimental work on wild-living or captive *Drosophila*. The successful candidate will also have demonstrated English language skills and be able to speak, read and write in English. Candidates should express a willingness to learn rudimentary Mandarin and Chinese culture. Acquaintance with molecular genetic techniques will be helpful, but not essential.

The Postdoctoral Fellow will be in residence 8-9 months of a year at SYSU in Guangzhou, China, which is 1.5 hr north of Hong Kong and for 3-4 months of the year in the Department of Ecology and Evolutionary Biology, UCLA. The yearly salary will be \$32,500 per year. While this salary is low by US standards, it is generous by Chinese standards. It will allow the successful candidate to live well in Guangzhou and save money. Roundtrip airfare to and from Los Angeles from Guangzhou will be provided by SYSU.

The start date is somewhat flexible being on or around April 1, 2011 or on or around January 1, 2012 .

To apply, please send a letter of interest, a current CV, and the names and email addresses of three people who would provide letters of recommendation on request. Send application materials via email to Dr Gowaty (gowaty@eeb.ucla.edu) and to Dr. He (fhe@mail.sysu.edu.cn or fhe@ualberta.ca).

Patricia Adair Gowaty, PhD Distinguished Professor Ecology and Evolutionary Biology 621 Charles E. Young Drive S UCLA Los Angeles, California 90095 office phone: 310 455-6832 other phone: 706 202-3428 (messages)

Patricia Adair Gowaty <gowaty@eeb.ucla.edu>

UArizona PlantMolEvol

UArizona EvolutionMulticellularity

POSTDOCTORAL POSITION

Origin of multicellularity

A POSTDOCTORAL POSITION is available immediately in the laboratory of Dr. Richard E. Michod (<http://www.eebweb.arizona.edu/Michod/>) in the Department of Ecology and Evolutionary Biology at the University of Arizona (Tucson, AZ; <http://eebweb.arizona.edu/>). We are looking for a motivated, enthusiastic and independent individual with a strong background in evolutionary biology and/or genomics and molecular biology to address questions concerned with the evolution of multicellularity, using the green algal group Volvocales (Chlamydomonas and its multicellular relatives) as a model-system. Current projects in the lab include studying the genetic basis for the evolution of germ-soma differentiation, measuring life history trade-offs as colony size changes and artificial selection experiments on body size in volvoclean green algae.

To apply, please e-mail (michod@u.arizona.edu) with the following information: a statement detailing your research interests and qualifications, a CV, and the names and contact information of three references. Please describe what interests you about this post-doctoral position and whether you have any particular ideas that you wish to pursue.

The initial appointment is for one year, with an additional two years' funding possible conditional on satisfactory performance. The position is funded by an NSF grant, at 35K per year (plus benefits).

The University of Arizona is an EO/AA Employer.

Rick Michod <michod@u.arizona.edu>

A postdoctoral associate position is available in the School of Plant Sciences at the University of Arizona to participate in a research project that focuses on understanding the molecular evolution of genes and associated networks that control plant adaptation to soil salinity. The build-up of salt in agricultural soils is a widespread problem that limits the growth and yield of important crop species worldwide. Genetic variation for plant growth in salinity (salt tolerance) exists; however, little is known about the genes and pathways underlying this variation. Our studies are assessing the evolutionary forces acting on plant salt tolerance using phylogenetic surveys within the Brassicaceae and mapping and isolating genes that underlie natural variation for this trait with screens of Arabidopsis accessions.

Preference will be given to a highly motivated, enthusiastic, and independent candidate with a Ph.D. and a strong background in evolutionary biology and/or genomics and training in molecular genetics and molecular biology. Demonstrated written and oral communication skills and an ability to interact and work collaboratively with others are essential qualifications. The position is available April 1, 2011.

To apply, send a CV, a letter stating specific research interests, a summary of research accomplishments and future research objectives, and the names and contact information (address, phone, and e-mail) for three references to Karen Schumaker, Ph.D. (schumake@ag.arizona.edu), School of Plant Sciences, University of Arizona, Tucson, Arizona 85721-0036. The University of Arizona is an EEO/AA Employer-M/W/D.V.

Karen Schumaker School of Plant Sciences, Department of Molecular and Cellular Biology, and the BIO5 Institute University of Arizona

Contact information: School of Plant Sciences 303 Forbes Hall 1140 E. South Campus Drive University of Arizona Tucson, AZ 85721-0036

Phone: (520) 621-9635 Fax: (520) 621-7186 <http://ag.arizona.edu/research/schumaker/> Karen Schumaker <schumake@ag.arizona.edu>

UCalifornia Berkeley ComputationalBiol

Computational biologist/Bioinformatician at UC Berkeley

The Bachtrog and Eisen labs at UC Berkeley are looking for a computational biologist/bioinformatician to manage the collection, assembly, annotation and analysis of genome sequences from *Drosophila* and other fly species. The candidate should have an advanced degree (MA or PhD) in biology, computational biology or a related field, and experience working with genome sequence data and assembly software.

Job requirements:

Manage data from multiple genome-sequencing projects
Evaluate available genome assembly software and develop strategies for genome assembly optimized for *Drosophila* genomes
Give feedback on the best experimental strategies for genome sequencing to lead to optimize genome assembly
Run and evaluate de novo and comparative genome annotation software on newly and previously sequenced *Drosophila* genomes, integrating experimental data (e.g. mRNA-seq) when available
Use available software to produce whole-genome alignments of newly and previously sequenced *Drosophila* genomes
Make data available to Bachtrog and Eisen lab, and wider community, with genome browsers for each species

Skills: Experience working with genome sequence data
Install/run/modify unix programs
Ideally experience working with data bases and genome browsers

To apply, please send an email with a CV, Research Interests and the name of three references to Doris Bachtrog (dbachtrog@berkeley.edu) and Mike Eisen (mbeisen@gmail.com).

Doris Bachtrog Department of Integrative Biology Center for Theoretical Evolutionary Genomics University of California, Berkeley

Doris Bachtrog <dbachtrog@berkeley.edu>

UCalifornia Berkeley EvolutionaryGenomics

UC Berkeley, Postdoc in Evolutionary or Functional genomics

A Postdoctoral position is available in the group of Doris Bachtrog at the University of California, Berkeley. The specific project is flexible, but will involve high-throughput sequencing technology to study genome-wide analysis of gene expression or genome polymorphism data in *Drosophila*. Current research in the lab combines comparative, computational and functional genomics approaches with evolutionary theory and modeling to study evolutionary and functional aspects of sex chromosome differentiation in *Drosophila* to address questions including: (1) How and why do Y chromosomes degenerate? (2) How does genetically inactive heterochromatin form on an evolving Y? (3) How is dosage compensation acquired on an evolving X? (4) What evolutionary forces drive the demasculinization of X chromosomes in *Drosophila*? (5) How does intragenomic conflict between the sexes shape the functional divergence of sex chromosomes?

Our group shares space and weekly lab meetings with those of Rasmus Nielsen, Monty Slatkin and John Huelsenbeck and enjoys close ties with other members at the UC Berkeley campus, notably Mike Eisen, Yun Song and Lior Pachter. Applicants for the position must have either a background in high-throughput genomics techniques, or computational population and evolutionary genomics analysis. Programming and bioinformatics skills are highly beneficial.

Funds are available to support this position for up to three years. The position is immediately available and the search continues until the position is filled.

To apply, please submit by email a CV, a brief description of research interests (no more than one page), and the names and contact information for two references to Doris Bachtrog (dbachtrog@berkeley.edu)

For further information about our research program, please visit our website and the departmental website:

<http://ib.berkeley.edu/labs/bachtrog/> <http://fisher.berkeley.edu/cteg/index.html>
<http://ib.berkeley.edu/> Doris Bachtrog University of California, Berkeley Department of Integrative Biology Center for Theoretical Evolutionary Genomics

Berkeley, CA 94720-3140 phone: (510)-325-9547

Doris Bachtrog <dbachtrog@berkeley.edu>

UCalifornia Riverside RiceBioinformatics

Postdoctoral Research in Bioinformatics and Transposon Biology in Rice University of California, Riverside

Position Description An NSF funded postdoctoral position is available in the laboratories of Dr Susan Wessler and Dr Jason Stajich to study the evolutionary dynamics of transposable elements in the rice genome and their contribution to phenotypic variation. This postdoctoral scientist will be involved in research using bioinformatics, next generation sequencing of multiple rice strains, and RNA-Seq based transcriptional profiling. This position requires excellent bioinformatics and programming skills to analyze and synthesize genome assemblies from next generation sequencing data produced by Illumina/Solexa technology. Background information on the biology underlying the project can be found in: K. Naito et al, Nature 2009 461: 131; K. Naito et al, PNAS 2006 103: 17620; N. Jiang et al, Nature 2003 421: 163.

The successful candidate will be expected to contribute and lead data analysis for the project. There will be opportunities for molecular biology, if desired, as part of validation of analyses. In addition, data and software from this project will be used to develop teaching materials as part of the HHMI funded Dynamic Genomes course at UC Riverside providing an opportunity to participate in teaching in an innovative topic-focused course for undergraduates. Applications will be accepted until the position is filled and review will begin on February 15, 2011. Salary and benefits are commensurate with NIH guidelines and the University of California Postdoctoral Union agreement. Special consideration will be given to candidates with exceptional bioinformatics and genome evolution experience.

Qualifications Minimum qualifications include a Ph.D. in Biological Sciences, Computer Science, Statistics, or a related field. Demonstrated experience in bioinformatics and high proficiency in programming is necessary along with an understanding of the mechanisms underlying genome evolution. Experience with next generation sequence data is highly desirable. Ability to communicate clearly, work independently, and interact collaboratively is essential.

The researcher will also work closely with co-PIs and collaborators at the Boyce-Thompson Institute and Cornell University.

To Apply Contact Jason Stajich (jason.stajich@ucr.edu) or Susan Wessler (susan.wessler@ucr.edu) with a current CV and names of three references. More information can be found online about the Stajich lab <http://lab.stajich.org> Wessler lab <http://wesslerlab.ucr.edu> and UC Riverside <http://www.ucr.edu>. Information about UCR In the Heart of Inland Southern California, UC Riverside is located on nearly 1,200 acres near Box Springs Mountain in Southern California, the park-like campus provides convenient access to the vibrant and growing Inland region. The campus is a living laboratory for the exploration of issues critical to growing communities air, water, energy, transportation, politics, the arts, history and culture. UCR gives every student the resources to explore, engage, imagine and excel. UCR is ranked 43rd among top public universities (US News and World Report 2010).

At UC Riverside we celebrate diversity and are proud of our #5 ranking among the nation's for most diverse universities (US News and World Report 2010). Become part of a place that fosters success for all its constituents, students, faculty, and staff, and where work/life balance and campus culture are integral to our way of life. UCR is an affirmative action and equal opportunity employer with a commitment to workforce diversity. AA/EOE

Jason E Stajich, PhD Assistant Professor Dept of Plant Pathology & Microbiology University of California, Riverside 951.827.2363 <http://lab.stajich.org> <http://fungalgenomes.org> twitter:stajichlab <http://plantpathology.ucr.edu> <http://genomics.ucr.edu>

jason.stajich@ucr.edu

UCDavis 2 Modelling MosquitoBorne Diseases

Modeling Mosquito-Borne Disease

Position Description: Two post-doctoral positions are available to model the ecology, evolution, epidemiology, and/or prevention of mosquito transmitted disease. Successful candidates will be part of the Mosquito Modeling Work Group in the Research and Policy for Infectious Disease Dynamics (RAPIDD) program of

the Science and Technology Directorate, Department of Homeland Security, and the Fogarty International Center, National Institutes of Health. The main theme of the group is modeling movement and the spatial dynamics of mosquito transmitted disease. In addition to developing general and disease specific models, the group models transmission of dengue virus in Iquitos, Peru (a case study for urban transmission) and elimination of malaria from Zanzibar (modeling vector interventions).

Qualifications: Candidates must hold a PhD or equivalent degree and have experience developing mathematical or computer simulation models. Research experience with mosquito-borne disease is desirable, but not essential.

To apply: email a cover letter and CV to twscott@ucdavis.edu and smitdave@gmail.com

Thomas W. Scott David L. Smith Department of Entomology Department of Zoology One Shields Ave Associate Director for Disease Ecology, University of California Emerging Pathogens Institute Davis, CA 95616 University of Florida, FL Office: 530-754-4196 Office: (202) 328-5126 email: twscott@ucdavis.edu email: smitdave@gmail.com

“Sandberg, Leslie” <lasandberg@ucdavis.edu>

UFlorida Evolutionary Genomics Bioinformatics

We are looking for a talented, enthusiastic postdoc interested in using computational and evolutionary approaches to understand host- pathogen co-evolution. We are a new lab in the Department of Microbiology and Cell Science at University of Florida, currently pursuing two major research projects:

- 1) Evolution of RNA interference (RNAi)
- 2) Evolution of host specificity in Plasmodium parasites

For more information about our research projects, see http://microcell.ufl.edu/egcb_lab The ideal candidate will have either strong interest or experience in molecular evolutionary biology and computational genomics, as well as familiarity with some form of computer programming. We are looking for a highly motivated individual with a deep interest in tackling questions in molecular evolution.

To apply, email Bryan Kolaczowski (bryank@ufl.edu).

Include 1) a 1- page letter outlining your research interests, 2) your CV and 3) contact information for 3 references.

Applications will be accepted through January, 2011.

Bryan Kolaczowski

Department of Microbiology and Cell Science University of Florida

ULiverpool Infection Evolution

<http://www.liv.ac.uk/working/job-vacancies/-research/R-574196.htm>

An enthusiastic, dedicated individual is sought for a 3-year Wellcome Trust-funded project that will use next-generation sequencing to examine the processes shaping genetic diversity within *Pseudomonas aeruginosa* infections in cystic fibrosis patients. We will use a unique dataset of patients infected with a single epidemic strain of *Pseudomonas* for which we have demonstrated high levels of diversity within chronic infections. This project represents an exciting opportunity to link evolutionary biology and microbiology, to promote patient health, and to gain experience in next-generation sequencing analysis. You should have a PhD in biology or computational biology and relevant experience.

Closing date 18th Feb

Dr Steve Paterson Institute of Integrative Biology University of Liverpool Liverpool L69 7ZB, UK Tel (+44) 151 795 4521 Mob (+44) 151 794 7668 Fax (+44) 151 795 4408 Email s.paterson@liv.ac.uk

“Paterson, Steve” <S.Paterson@liverpool.ac.uk>

UManchester Theo Evolution

Research Associate: The University of Manchester - Faculty of Life Sciences

Closing date: 21/01/2011 Reference: LS/11487

We seek an enthusiastic and motivated biologist to join an interdisciplinary team working on “Evolution as an Information-Dynamic System”. The position is in Chris Knight’s lab, in the Computational and Evo-

lutionary Biology grouping of the University of Manchester (tinyurl.com/knightlab). The project aims to make solid connections between state of the art mathematics (information dynamics and geometry) and real biological evolution. It therefore involves close collaboration with theoretical and computer science work already underway in the groups of Roman Belavkin, Alastair Channon and John Aston at the universities of Middlesex, Keele and Warwick respectively.

The successful candidate will use both in vitro evolution on aptamer arrays [1] and microbial experimental evolution to test theory being developed about evolutionary 'operators', (mutation, recombination and selection) and particularly the control of mutation rate.

The position is available immediately and will be full time for up to 2 years.

For further information about the project, see <http://is.gd/j4F2M> and <http://is.gd/j4IHc> [1] Knight, C.G. et al. (2009) Array-based evolution of DNA aptamers allows modelling of an explicit sequence-fitness landscape. *Nucleic Acids Research* 37, e6

Salary £28,983 - £35,646

Informal enquiries to: Chris Knight Tel: + 44 (0) 161 275 5378 Email: chris.knight@manchester.ac.uk

Documents - Further particulars - ref LS/11487 (PDF - 19 KB): <http://is.gd/kuRMd> How to apply To apply for this vacancy please download a copy of the application form either in Microsoft Word format (RTF) <http://is.gd/kuRZ6> or as a PDF <http://is.gd/kuSaF>. You will need a PDF reader such as Adobe Acrobat (downloadable from Adobe) to view PDF file(s). PDF files open in a new window. Apple Mac users: please follow instructions below. - Application form RTF - Application form PDF - If you are using an Apple Mac to complete your application form, please convert the RTF into a Microsoft Word Document as the functionality of an RTF form on a Mac can differ from other computers. Please refer to the guidance notes for more information on how to apply for our vacancies:

- Guidance notes PDF: <http://is.gd/kuSn9> If you require copies of documentation in alternative formats; large print, Braille etc, please contact Human Resources:

- hr@manchester.ac.uk You will need a PDF reader such as Adobe Acrobat (downloadable from Adobe) to view PDF file(s).

To request a hard copy

Karen Reeson Email: karen.m.reeson@manchester.ac.uk

Please quote reference

LS/11487

Closing date

21/01/2011

For a html version of this ad, see: <http://www.jobs.ac.uk/job/ACC525/research-associate/> Dr Christopher Knight Michael Smith Building Wellcome Trust RCD Fellow Faculty of Life Sciences Tel: +44 (0)161 2755378 The University of Manchester room B.2012 Oxford Road tinyurl.com/knightLab/ Manchester M13 9PT . ,,><(((> UK

Chris.Knight@manchester.ac.uk

UMassAmherst DarwinFellow

Postdoc: University of Massachusetts Amherst

DARWIN FELLOW

The Graduate Program in Organismic and Evolutionary Biology at University of Massachusetts Amherst announces a two-year postdoctoral FELLOWSHIP/lectureship. OEB draws together more than 80 faculty from the Five Colleges (University of Massachusetts Amherst and Smith, Hampshire, Mount Holyoke and Amherst Colleges), offering unique training and research opportunities in the fields of ecology, organismic and evolutionary biology. Our research/lecture position provides recent PhD's with an opportunity for independent research with an OEB faculty sponsor as well as experience developing and teaching a one-semester undergraduate biology course. Proven teaching skills are required. Position subject to availability of funds. 1st year salary: \$35,000. 2nd year salary: \$37,000.

To apply, send CV, three letters of reference, statements of research and teaching interests, and arrange for a letter of support from your proposed OEB faculty sponsor. A list of faculty and additional information is available at www.bio.umass.edu/oeb. Electronic applications are encouraged (include last name in all documents); send to darwin@bio.umass.edu

Application review begins: 3/4/11 Interviews: early April Start date: 8/14/11

Darwin Fellowship Graduate Program in Organismic and Evolutionary Biology 319 Morrill Science Center South 611 North Pleasant Street University of Massachusetts Amherst Amherst, MA 01003-581

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

caicedo@bio.umass.edu

UNorthCarolina ChapelHill MaleMateChoice

Postdoctoral Position at the University of North Carolina, Chapel Hill

A position is available for a Postdoctoral Research Associate in the lab of Maria Servedio at the University of North Carolina, Chapel Hill, to work on theoretical models of male and mutual mate choice. The applicant will be expected to develop an independent research project(s) in addition to collaborating with the PI on theoretical projects. Prior experience with theoretical modeling techniques, a strong mathematical background, and programming skills is preferred. A Ph.D. and a strong background in evolution is required.

Research in the Servedio lab concentrates developing mathematical models of speciation and mate choice. Please see <http://www.bio.unc.edu/Faculty/Servedio/Lab/Home.html> or contact Maria Servedio (servedio@email.unc.edu) for more information on projects ongoing in the lab.

The appointment is for 1-2 years starting preferably in the summer of 2011 (start date flexible). Send applications including a CV, description of research experience and interests, brief description of background in theory and related skills, and names and addresses of three references to Maria Servedio at servedio@email.unc.edu

Informal inquiries are welcome as well. Review of applications will begin on Feb 15 and continue until the position is filled.

servedio@email.unc.edu

USheffield FitnessEvolutionSperm

This is directed at evolutionary biologists, but ones that have an interest in form and function. I trust thats ok.

Tim

*Post-doctoral Research Associate at the University of Sheffield starting 1 April 2011 *

A Post-doctoral Research Associate position is available to work in Professor Tim Birkhead's research group in the Department Animal & Plant Sciences. The position is funded by the European Research Council (ERC) to study the energetic costs of making sperm.

This is an exciting project whose overall aim is to understand how sperm phenotype influences fitness. The post is tenable from 1 April 2011.

Candidates should have:

A PhD or equivalent experience in avian reproductive biology.

A track record of publishing in leading specialist or multidisciplinary journals.

A strong interest in inter-disciplinary research and interactions.

Experience with birds and a strong interest and/or background in evolutionary biology would be an advantage.

The position will involve establishing the spermatogenic cycle length in birds, measuring the costs of sperm production in different bird species with different sperm phenotypes, writing manuscripts for publication in leading discipline-specific and multidisciplinary journals and presenting research findings at international conferences.

The post is fixed-term with a start date of 1 April 2011 (or as soon as possible thereafter) and an end date of 31 March 2014 in the first instance but with the possibility of a further extension subject to the availability of funds.

This is an ideal opportunity for an ambitious postdoctoral research fellow to work at the interface between evolution and reproductive biology. The work will be performed in a large, high profile 5* research department with a strong commitment to research-led teaching.

For informal enquiries about this position and about the department, please contact Professor Tim Birkhead: T.R.Birkhead@sheffield.ac.uk or phone: 0114 222 4622

For all on-line application system queries and support, contact:

e-Recruitment@sheffield.ac.uk

Professor T. R. Birkhead FRS Department of Animal& Plant Sciences, The University of Sheffield, Sheffield

S10 2TN Phone (0114) 222 4622 Fax: (0114) 222 0002
Departmental office: (0014) 222 4376

Web: <http://shef.ac.uk/aps/staff/acadstaff/-birkhead.html> For books by TRB see: <http://shef.ac.uk/aps/staff/acadstaff/tbirkhead2.html>
See: <http://wisdomofbirds.co.uk/> Tim Birkhead
<t.r.birkhead@sheffield.ac.uk>

UToronto EvolutionaryBiol 2

Reminder: Review of applications for the Postdoctoral Fellowship in the Department of Ecology and Evolutionary Biology at the University of Toronto will begin on Feb. 1, 2011

The Department of Ecology and Evolutionary Biology < www.eeb.utoronto.ca > at the University of Toronto invites applications for Departmental Postdoctoral Fellowships in the areas of Ecology and Evolutionary Biology, broadly defined. One position is available this year, and we expect that another will become available next year through an ongoing EEB Postdoctoral Fellowship Program. Positions may continue for two years, subject to review after one year, and can begin as early as July 1, 2011. The salary starts at \$40,000 per year, with research expenses covered by the Postdoctoral Advisor.

The Fellow will be a fully participating member in the Department. Candidates must identify and communicate with a potential advisor (or advisors) in advance of the application process. All full-time faculty members at the St. George (downtown) campus of the University of Toronto are eligible to serve as advisors (see www.eeb.utoronto.ca/postdoc/ for a list of potential supervisors). Opportunities for teaching in an upper level course may be available, if the candidate wishes to teach.

To apply, applicants should first contact and obtain the agreement of a faculty advisor (or co-advisors). Afterwards, applicants should submit a cover letter clearly indicating the proposed faculty advisor(s), a curriculum vitae, copies of 2 publications, and a short (1-3 pages) description of past research accomplishments and future research plans. Applicants should include names and e-mail addresses of two potential referees. Applicants should also indicate the date they will be available to begin the position. All application materials must be submitted as PDF's in a single email to: Elizabeth Rentzelos <chairsec.eeb@utoronto.ca> <<mailto:chairsec.eeb@utoronto.ca>>. Review of appli-

cations will begin on Feb. 1, 2011.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Centre for Global Change, the Centre for Environment, and the Faculty of Forestry. The University owns a nearby field station dedicated to ecological research (the Kofler Scientific Reserve, ksr.utoronto.ca). The department also has a partnership with the Ontario Ministry of Natural Resources that helps provide access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Genomic analyses are supported by the Centre for the Analysis of Genome Evolution and Function (www.cagef.utoronto.ca).

- Megan Frederickson Assistant Professor Department of Ecology and Evolutionary Biology University of Toronto 25 Harbord Street Toronto, Ontario, M5S 3G5, Canada Email: m.frederickson@utoronto.ca Web: labs.eeb.utoronto.ca/frederickson

Megan Frederickson <m.frederickson@utoronto.ca>

UValencia ViralEvolution

Call: Juan de la Cierva contracts for junior post-doc (Spain) Duration: 3 years, starting Fall 2011. Conditions: the candidate must have obtained a PhD certificate between Sept 2007 and Sept 2011. Salary: 24.000 euros / year URL: <http://www.micinn.es/portal/site/MICINN/-menuitem.dbc68b34d11ccbd5d52feb801432ea0/-?vgnextoid=1fc510f328c2d210VgnVCM1000001d04140aRCRD&vgnnextoid=76c9282978ea0210VgnVCM1000001034e20aRCRD>

Advisor: Rafael Sanjuán Email: rafael.sanjuan@uv.es URL: www.uv.es/rsanjuan Institution: Institute Cavanilles for Biodiversity and Evolutionary Biology, University of Valencia Valencia Spain

Areas of expertise: experimental evolution, molecular evolution, virology, molecular biology, population genetics Project name: Virus mutation rates The specific topic of the project has to be defined by the candidate and the advisor. The project, the candidate, and the advisor will be evaluated by a panel of experts, who will select the most competitive proposals.

rafael.sanjuan@uv.es

UWiscMadison Conservation GlobalFreshwaterBiodiversity

We seek a post-doc to assist in quantifying conservation hotspots for global freshwater biodiversity. The project is a joint effort of the labs of Peter McIntyre (University of Wisconsin), David Dudgeon (Hong Kong University), and Mark Gessner (Leibniz Institute for Freshwater Ecology and Inland Fisheries, Berlin), in collaboration with numerous academic and NGO collaborators. The project will be a follow-up to our recent analysis of global threats to rivers (Vorosmarty et al. 2010 Nature).

The post-doc will conduct spatial analyses to identify freshwater conservation hotspots around the world using the latest GIS summaries of threats and species distributions. A variety of ancillary analyses will be used to assess the underlying causes, current status, future prospects, and conservation prioritization of hotspot areas. We anticipate that the results of the project will help to define near-term and long-term agendas for global freshwater conservation efforts.

Expertise in both freshwater biodiversity and large-scale spatial analysis using GIS, a successful publication record, and a collaborative approach to science are essential qualifications. Candidates with specific experience in global geospatial analysis and prioritization algorithms are particularly encouraged to apply. The successful applicant will be expected to work independently on the development of the spatial analyses while communicating regularly with the rest of the project team.

The position may begin as early as 1 March 2011, and funding is available for at least 18 months. A competitive post-doc salary will be offered, including health benefits. The first year of work will be based in McIntyre's lab at the University of Wisconsin in Madison, and then up to another year will be based in Gessner's lab near Berlin. Both the Center for Limnology and IGB-Berlin are home to well-known research groups in aquatic science, and feature a vibrant atmosphere in which collegial interactions among faculty, staff, post-docs, and graduate students are the norm. Madison and Berlin are widely recognized for high quality of life, including lively culture and arts scenes. Costs of living are moderate, and public transportation or cycling routes are readily available.

To apply, please submit electronic versions of a letter of interest, curriculum vitae, three relevant reprints, and the phone numbers and email addresses of three references to Valerie Seidel (vseidel@wisc.edu). Please assemble documents in a single PDF file. The letter of interest should explicitly address relevant experience/expertise in both freshwater biodiversity and spatial analysis. Review of applications will begin on 7 February 2011 and will continue until the position is filled. Any questions about the position may be directed to Peter McIntyre (pmcintyre@wisc.edu).

NOTE: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality. UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

Valerie Seidel <vseidel@wisc.edu>

UWisconsin Madison PopulationGenetics

2 year postdoc at UW-Madison in background selection & selective sweeps

Have you ever wondered how much background selection contributes to the observed correlation between DNA sequence diversity and recombination rates?

Would you like to test how many additional selective sweeps are needed to explain the patterns of DNA sequence diversity in fruit flies?

Do you like programming to explore population genetics questions?

If you are looking for a postdoc to work on these questions, consider joining the Evolutionary Systems Biology Group (<http://evolution.ws/people/loewe/>) at the interface between the Laboratory of Genetics (<http://genetics.wisc.edu/>) and the newly opened Wisconsin Institute of Discovery (<http://discovery.wisc.edu/wisconsin/>) at the University of Wisconsin-Madison.

We invite applications for a 2 year NIH funded postdoc position to work on analysing how well background selection and selective sweeps predict the observed diversity in next generation Drosophila genome sequences. This is a collaboration between Prof M. Noor (Duke,

NC), Prof R. Kliman (Cedar Crest, PA) and Prof L. Loewe (Madison, WI).

You should have: - a background in population genetics - an interest in linkage theories like background selection and selective sweeps - programming experience in R or C++

If interested, please send a note of interest to Laurence Loewe, preferably before 7 Feb 2011, explaining why you want to work on this project and what skills you

bring to such work.

The start date is negotiable, but should be some time in 2011.

Related information and updates about this job can be found at: <http://evolution.ws/people/loewe/jobs> For more information and for applying, please contact Laurence Loewe directly (Loewe at wisc dot edu).

loewe@wisc.edu

WorkshopsCourses

Arolla Switzerland EvolBiol Jun26-Jul2	94	LundU EvolutionMigration Oct18-28	98
BroadInst VisualizingBioData Mar16-18	95	Masters EvolBiol	99
Columbus Ohio Coevolution Apr4-8	95	MichiganStateU MicrobialGenomics Summer	100
Hinxton HumanGenomeAnalysis Jul23-29	96	Mississippi HerpetologyDiversity May16-27	100
KelloggBiolStation EvolEcol Jun6-24	97	Reykjavik EMBO ComputationalBiology Aug6-13	101
KualaLumpur PacificBiologicalCollections Jun14-18	97	TeachingEvolutionForPostdocs 2011	101
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LasCruces CostaRica ConservationGenetics May21-		Jul1	102
Jun5	98		

Arolla Switzerland EvolBiol Jun26-Jul2

Evolutionary Biology Workshop in the Alps

26 June- 2 July 2011 Arolla, Switzerland

3 ETSC credit points

Faculty: John Pannell (University of Oxford, UK) Mike Ritchie (University of St. Andrews, UK) Jerome Goudet (University of Lausanne, Switzerland) Tad Kawecki (University of Lausanne, Switzerland)

Target participants: PhD students, advanced master students

This workshop, based on a concept developed by Steve Stearns and John Maynard Smith, takes place in a small Alpine village (Arolla), which will allow you to

focus while being able to enjoy the landscape and the Alpine flora. The main goals of this course are to develop the following skills: - developing your scientific ideas through discussions in groups - thinking critically and expressing oneself clearly - turning a general idea into a research project - writing a research proposal and defending it It is you, the students, who will be in charge in this course. You will be divided in groups of 4-5 students. In those groups, you will work on your ideas. You, as a group, will decide what the important questions in broadly defined evolutionary biology are, you will choose one, and attempt to develop a proposal for a research project that will address it. The faculty will visit the groups during the discussions to answer your questions, provide coaching and give you feedback on your projects, but they will generally take the back seat. Additionally, the faculty will give informal talks about their research and be available for informal discussion with individual students. At the end you will present your projects to other participants, and we will

party.

Costs: CHF 430.- for room and board.

More information under <http://biologie.cuso.ch/-ecologie-evolution/activities/detail-activity/item/-courses/evolutionary-biology-workshop-in-the-alps-1/>

To apply, send a single file (pdf or rtf) containing a short motivation letter, a cv and the name of your scientific advisor to tadeusz.kawecki@unil.ch.

Deadline for application: 28 February 2011.

Greetings, Tad Kawecki

– Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Biophore CH 1015 Lausanne, Switzerland

tadeusz.kawecki@unil.ch

BroadInst VisualizingBioData Mar16-18

The VIZBI workshop includes sessions on visualizing genomic data and population data (including multiple sequence alignment and phylogenies) that may be of interest to evolutionary biologists.

We are delighted to invite you and your colleagues to register for VIZBI 2011, the 2nd workshop on 'Visualizing Biological Data', to be held at the Broad Institute, Cambridge-MA (USA), March 16-18, 2011.

VIZBI 2011 brings together scientists actively using or developing computational visualization to study a diverse range of biological data. We have assembled a list of high-profile speakers (see end of email) who will review the state-of-the-art and challenges of visualization within their field. VIZBI 2011 also features an 'art & science' evening (Thursday) during which we will be joined by medical illustrators, graphic designers, and artists interested in biological visualization. On Saturday, March 19, immediately after the workshop, participants can choose to attend one of a range of tutorials and take part in a hands-on 'bring-your-own-data' session.

All workshop participants are encouraged to submit a poster on their work, plus an image for the art & science evening. A limited number of participants will also be offered the opportunity to be part of an authoritative book co-authored with the VIZBI speakers, essentially an expanded version of the Nature Methods focus issue (<http://www.nature.com/nmeth/journal/v7/n3s>); the

book will be the first to comprehensively review this topic and will be distributed by a major scientific publisher.

Please see <http://vizbi.org> for more information. We hope you can join us for this exciting event! We would also be grateful if you consider forwarding this call to colleagues who may be interested.

The VIZBI 2011 chairs: Seán O'Donoghue, EMBL; Bang Wong, Broad Institute; James Procter, U. Dundee; Larry Hunter, U. Colorado

VIZBI 2011 Speakers (in order of appearance): Manuel Lima Microsoft, UK. (Keynote: Visual Complexity). Robert Kuhn, UCSC, USA. Bradley Bernstein, Harvard, USA. Erez Lieberman-Aiden, Harvard, USA. Eric Westhof, U. Strasbourg, France. John Quackenbush, Harvard, USA. Yoseph Barash, U. Toronto, Canada. Tamara Munzner U. British Columbia, Canada. (Keynote: Human-Computer Interfaces). John Westbrook, Rutgers, USA. Arthur Olson, Scripps, USA. Gaël McGill, Harvard Medical School & Digizyme, USA. Trey Ideker, UCSD, USA. Anne-Claude Gavin, EMBL, Germany. Minoru Kanehisa, U. Kyoto, Japan. Yannis Kalaidzidis, MPI-CBG Dresden, Germany. Drew Berry, Walter & Eliza Hall, Australia. (Keynote: Communicating science, Visually). Willy Supatto, U. Paris Diderot, France. David Shattuck, UCLA, USA. Rob MacLeod, U. Utah, USA. Des Higgins, U. College Dublin, Ireland. Rod Page, U. Glasgow, UK. Hervé Tettelin, U. Maryland, USA. Martin Wattenberg & Fernanda Viégas, Google, USA. (Keynote: Visual Design)

VIZBI training day topics: Blender, Cytoscape, Circos, Jalview, Processing, VTK & ParaView.

Karen Cranston <karen.cranston@gmail.com>

Columbus Ohio Coevolution Apr4-8

When Ehrlich and Raven published their now classic study of coevolution between butterflies and plants in 1964, the link between the development of coevolutionary theory and plant-insect interactions was cemented. Since this time, numerous studies of plant-insect interactions have revealed an important role for coevolution, even as the perceived importance of coevolution for the overall structure of plant-insect communities has waxed and waned. Currently, much of the research on the ecology and evolution of plant-insect interactions, both

mutualistic and antagonistic, is expanding from simpler two-species frameworks to consider coevolution in the context of multispecies communities and networks.

During the week of April 4-8 a workshop on coevolution and the ecological structure of plant-insect communities will be held at the Mathematical Biosciences Institute (MBI) in Columbus, Ohio. The central goal of this workshop will be to identify and develop promising new mathematical, computational, and statistical approaches for studying coevolution by fostering interactions and cross-talk between individuals using empirical and mathematical/computational approaches. Logistically, the workshop will be structured around a core of 16 talks, a poster session, and a panel discussion. To see more information about the workshop and a list of confirmed speakers, visit the workshop web page at <http://mbi.osu.edu/2010/ws5description.html>.

The workshop is open to any interested participants and participation by graduate students and post-docs studying coevolution from a theoretical or empirical perspective is particularly encouraged. Limited funds are available from the MBI to defray the cost of workshop participation for graduate students. In order to register for this workshop and to request financial support, click on the "apply for event" tab on the workshop web page <http://mbi.osu.edu/2010/ws5description.html>. The application deadline for financial support is January 31.

snuismer@gmail.com

Hinxton HumanGenomeAnalysis Jul23-29

As one of the instructors, I would like to bring this course to your attention, Janet Sinsheimer

Human Genome Analysis: Genetic Analysis of Multifactorial Diseases 23-29 July 2011

Deadline for applications: 15 April 2011 Wellcome Trust Genome Campus, Hinxton, Cambridge

Course summary

An intensive, residential, computer-based course aimed at scientists actively involved in genetic analysis of multifactorial traits.

Programme

This advanced course covers statistical methods cur-

rently used to map disease susceptibility genes, with an emphasis on (but not limited to) methods that can analyse family data or a combination of families and individuals. Discussions of the latest statistical methodology are complemented by practical hands-on computer exercises using state-of-the-art software. The statistical basics behind each method will be carefully explained so that participants with a non-statistical background can understand. Our interactive and intensive educational program will enable one to better carry out sophisticated statistical analyses of genetic data, and will also improve one's interpretation and understanding of the results. All the software used is freely available, so that skills learned can be easily applied after the course.

Teaching will take the form of lectures by invited speakers, informal tutorials, hands-on computer sessions, and analysis of disease family data sets. There will also be an opportunity to discuss participants' own data sets. Course organisers

* Daniel Weeks (University of Pittsburgh, USA) * Mark Lathrop (Centre National de Genotypage, Evry, France)

Course instructors

* Heather Cordell (Institute of Human Genetics, University of Newcastle upon Tyne, UK) * Janet Sinsheimer (University of California, Los Angeles, USA) * Eric Sobel (University of California, Los Angeles, USA) * Joe Terwilliger (Columbia University, New York, USA) * Chad Garner (University of California, Irvine, USA) * Simon Heath (Centre Nacional d'AnÀlisi GenÀmica (CNAG), Barcelona, Spain)

2010 Guest speakers (2011 speakers TBC shortly)

* Dr. Simon E. Fisher (Wellcome Trust Centre for Human Genetics, Oxford, UK) * Dr Jonathan Marchini (Department of Statistics, University of Oxford, UK) * Professor Chris Holmes (Department of Statistics, University of Oxford, UK) * Professor David J Balding (Institute of Genetics, University College London, UK) * Professor Matthew Stephens (University of Chicago, USA)

To apply please see the wellcome trust advanced courses website <http://www.wellcome.ac.uk/Education-resources/courses-and-conferences/advanced-courses/courses/index.htm> Janet@mednet.ucla.edu Janet@mednet.ucla.edu

KelloggBiolStation EvolEcol
Jun6-24

ELME is a summer educational program at Michigan State University's Kellogg Biological Station devoted to Enhancing Linkages between Mathematics and Ecology.

ELME 2011 will focus on evolutionary ecology, particularly game theory and Adaptive Dynamics (Geritz et al. 1998). In this hands-on three-week course, students will learn the basics of Adaptive Dynamics and apply their knowledge to independent modeling projects using the computer program Mathematica.

Dates: June 6-24, 2011

Hours: Mon-Fri 9-5

Instructors: Stefan Geritz (University of Helsinki) & Christopher Klausmeier (Michigan State University)

Target audience: 12-18 graduate students and post-docs; exceptional undergraduates will be considered

Prerequisites: At least one semester experience in theoretical ecology/evolution. Previous exposure to AD and Mathematica useful but not required.

Format: A mixture of lecture, guided computer labs, and independent/team projects

To apply, email elme2011@kbs.msu.edu the following:

- your CV - a statement of research interests and why you'd benefit from the course
- a statement of relevant educational/research experience, including related coursework
- the name of a reference who you've asked to email a letter of support

Deadline for applications: March 15, 2011

Financial support to cover room and board and help defray transportation costs is available. Let us know if this is not necessary. Academic credit, if desired, is available at appropriate MSU rates. Let us know if this is desired.

For more info see < <http://www.kbs.msu.edu/-education/elme> > or email elme2011@kbs.msu.edu.

Christopher Klausmeier Kellogg Biological Station Department of Plant Biology Michigan State University Hickory Corners MI 49060

Web: <http://preston.kbs.msu.edu/> Email: klausme1@msu.edu

Christopher Klausmeier <klausme1@msu.edu>

KualaLumpur
PacificBiologicalCollections
Jun14-18

Dear Colleagues,

The Pacific Science Congress in Kuala Lumpur, Malaysia (14-18 June 2011; see www.pacificscience.org/congress2011.html) will include a one-day symposium/workshop devoted to "Biological Collections in the Pacific: Developing critical infrastructure for research and applications". The Call for Abstracts and an online submission form are now available at www.dnabarcodes2011.org/-collectionsAbstract.php. Repositories of biological specimens and samples are critical for research in a variety of fields, including but not limited to biodiversity, evolution, ecology, biomedicine, biological oceanography, and environmental studies. In the Pacific region, these fields are faced with these and other challenges:

- * Despite the enormous size and biological complexity of the Pacific region, there are relatively few major repositories of reference biological material.
- * Large portions of the specimens in Pacific collections are not represented by web-accessible information. They are non-existent except for researchers with the resources to visit those repositories.
- * Most universities and research institutions lack easy access to the collections their staff members and students need for their research.
- * The valuable specimens that result from their work may never be accessioned into collections for future reference.

The conference session will include three components:

- * Presentations on major initiatives to improve collections and increase their use and impact (15-20 minutes each)
- * Short 'lightning presentations' on initiatives to improve collections and collection-related research institutions in the Pacific region (5 minutes each)
- * Break-out and whole-group discussions of strategies and priorities for improving collections and collection-

related networks to improve access to and use of collections in the Pacific region and collections- based research.

Please don't hesitate to contact me if you have questions about this meeting.

David E. Schindel, Executive Secretary Consortium for the Barcode of Life National Museum of Natural History Smithsonian Institution Email: SchindelD@si.edu
CBOL WEBSITE: <http://www.barcoding.si.edu>

schindeld@si.edu

LakeheadU AncientDNA May9-27

ANCIENT DNA TRAINING PROGRAM MAY 9 - 27, 2011 An intensive training program in molecular techniques applied to degraded, archived, paleontological, archaeological and forensic material. The program will cover topics including extraction chemistry, PCR, mtDNA, STR's, sequencing and analysis software. The course is comprised of laboratory training sessions and lectures by eminent researchers from the fields of paleontology, archaeology, genetics and forensics. For more information and/or application forms contact URL: www.ancientdna.com Email: kmaa@lakeheadu.ca Phone: 1-807-343-8616 Fax: 1-807-343-8619

Registration Deadline is March 4, 2011

Carney Matheson <cmatheso@lakeheadu.ca>

LasCruces CostaRica ConservationGenetics May21-Jun5

Conservation and Restoration Genetics

The Organization for Tropical Studies (OTS) will present a graduate level specialty course May 21-June 5, 2011 entitled Conservation and Restoration Genetics. This is an intensive, 16-day course aimed at providing ecologists, biologists, geneticists, and students from similar disciplines with an overview of conservation genetics and related issues. Course topics include: measurement of genetic diversity, phylogeography, gene flow, mating systems and effective population size esti-

mates, and habitat fragmentation and restoration. We will also discuss the cost-effectiveness of different approaches and the integration of theory with experimental and field based data.

Course faculty will include Drs. Jim Hamrick, University of Georgia; Paul Leberg, University of Louisiana, Lafayette; and Eric Fuchs, University of Costa Rica. Local experts will present invited lectures on conservation issues in Costa Rica.

The course will be located on the campus of the OTS field station at Las Cruces, near the town of San Vito in southern Costa Rica. The Las Cruces station is located within the Wilson Botanical Garden at approximately 1300m (4000ft), and is surrounded by a highly fragmented premontane wet forest.

Tuition is \$1500 for applicants from OTS consortium institutions, and \$2000 for non-consortium applicants. A grant from the American Genetics Association will provide partial scholarships which will be based on academic merit and proven financial needs. The deadline for priority consideration is February 10, 2011. For further information, contact Barbara Lewis (barbara.lewis@ots.ac.cr [registration]), or Jim Hamrick (hamrick@plantbio.uga.edu [course content]), or see the OTS website at <http://www.ots.ac.cr/>.

J. L. Hamrick Department of Plant Biology University of Georgia Athens, GA 30602 (706) 542-1826

hamrick@plantbio.uga.edu

Jim Hamrick <hamrick@plantbio.uga.edu>

LundU EvolutionMigration Oct18-28

Evolution of Animal Migration

International PhD-student course Centre for Animal Movement Research, Lund University

18 - 28 October 2011

Animals move across different spatial and temporal scales either as part of their daily life or as part of seasonal migrations to exploit resources in the environment. Well known examples are the global scale seasonal migrations in birds, sea turtles, fish and mammals, such as whales and wildebeests. Also movements at smaller scales occur, such as the vertical movements in plankton, the dispersal in soil collembolans

and movements of pollinating insects. But what are the ecological causes and evolutionary consequences of animal movements?

During this two-week course you will get insight in a number of different methods and approaches to study the migration of birds, insects, fish, amphibians and mammals, ranging from experimental studies in the laboratory to tracking long-distance migration in wild animals. Lectures will be given by international authorities in the field as well as by researchers in the CAnMove Group at Lund University covering the following areas:

* Locomotion * Bird Ringing * Migration & Dispersal * Orientation & Navigation * Ecophysiology * Genetics of Migration * Migration & Population Ecology * Evolution & Patterns of Migration * Migration & Conservation * Ecophysiology * Modelling Migration

In addition to lectures, there will be time for own projects, an excursion to the bird migration station at Falsterbo, demonstrations of bird ringing and orientation experiments as well as tracking and radar techniques and a tour to the wind tunnel. During the time of the course we will also have literature seminars, and you will have ample opportunities for discussion and further gain experience in presenting your research to fellow students.

The course fee is: 3000 SEK

Application deadline 31 August 2011. Maximum enrollment 40 persons.

Please use the following link to enlist: <http://www.canmove.ekol.lu.se/courses/ecology-of-animal-migration> Rachel Muheim, PhD Department of Biology Biology Building B Sölvegatan 35 SE-223 62 Lund Sweden

Phone: +46 46 222 31 93 Fax: +46 46 222 44 25

e-mail: Rachel.Muheim@zoekol.lu.se Homepage: <http://orn-lab.ekol.lu.se/~rachel/>

Rachel Muheim <Rachel.Muheim@zoekol.lu.se>

Masters EvolBiol

Course: Erasmus Mundus Joint Master in Evolutionary Biology (MEME) - Extended deadline EU students

MEME is a two-year research oriented master programme for talented and motivated students who are interested in understanding evolution in all its facets.

The MEME programme will address the driving forces of evolution at all levels of organismal organisation (from cells and individuals to populations and ecosystems), and it will allow students to study all kinds of organisms (microorganisms, plants, animals) in all kinds of habitats (marine as well as terrestrial) with a diversity of approaches (field, lab, theory). The focus of the programme is not only on how evolution shaped life on our planet in the past, but also on how understanding the principles underlying evolution can provide new insights and help to cope with present-day challenges in a variety of fields, including ecology, epidemiology, physiology, immunology, genetics/genomics, bioinformatics, economics and the social sciences.

Only few universities in the world would be able to offer a programme of such broad scope without compromising scientific quality. For this reason, four European universities: - University of Groningen (Netherlands) - University of Montpellier II (France) - Ludwig Maximilians University of Munich (Germany) - Uppsala University (Sweden) have joined forces with Harvard University (USA).

Together, this consortium is able to put together an attractive multidisciplinary programme that meets highest standards. All students have to study at a minimum of two partner universities, and they will receive either a joint MSc degree from the whole consortium or double degree from two partner universities.

Being financed by the European Community, MEME has to satisfy the high quality standards imposed the prestigious Erasmus Mundus Programme. Full scholarships are available for MEME students and will be awarded in a selective procedure.

Starting date: September 2011

Application deadline European/EEA students: January 15, 2011 Application deadline non-European students: January 25, 2011

We extended the European deadline till January 25th 2011. This was decided because the deadline for the category B students was moved in November 2010 from April to January due to the new deadline set by Erasmus Mundus in Brussels.

We strongly invite European students to APPLY!

More information and how to apply: www.evobio.eu Questions about the contents of the programme: Franjo Weissing (f.j.weissing@rug.nl)

Questions about the application procedure: Irma Knevel (i.c.knevel@rug.nl)

Dr Irma C. Knevel Administrative coordinator Erasmus Mundus Master Programme MEME Theoretical Biol-

ogy Group Centre for Life Sciences P.O. BOX 11103
9700 CC Groningen The Netherlands

I.C.Knevel@rug.nl

MichiganStateU MicrobialGenomics Summer

Microbial Metagenomics June 12th - June 25th, 2011
Michigan State University

Learn state-of-the-art genomic methods to identify relationships between the structure and function of microbial communities

A major goal of this course is to provide hands-on experience with some of the molecular and computational tools that can be used to study relationships between microbial communities and ecosystem functions. However, our vision for the course is to go beyond simply learning these techniques. You will apply them in an ongoing study of the effects of land use on the production of greenhouse gases, and hopefully develop ideas for their use in your own research. Morning lectures will discuss microbial and ecological principles underlying experiments that you will conduct during the afternoons. The laboratory sessions will include purification of DNA from soil for 454 pyrosequencing, quantitative PCR and assays for enzymatic activities. You will analyze sequence data with a suite of contemporary programs to measure community diversity, and use multivariate analyses to relate these structures to ecosystem function. Drs. Thomas Schmidt, Clegg Waldron and Jay Lennon of Michigan State University will teach this course. It is an intensive 2-week experience modeled after the internationally acclaimed MBL Microbial Diversity Course that Dr. Schmidt previously directed. Experiments will focus on links between denitrification genes and the production of N₂O at the nearby Kellogg Biological Station Long Term Ecological Research Site (<http://lter.kbs.msu.edu>).

Who can attend? This course is for advanced undergraduates, graduate students, and faculty. It can be taken as a three-credit course (MMG 490 or MMG 890, Section 432).

What do I need to know in advance? We encourage diversity of backgrounds. The primary pre-requisite is a keen interest in adding molecular methods to your research. Familiarity with basic laboratory methods such as use of a pipetman and agarose gel electrophoresis is

helpful.

Where will it be held? Lectures and laboratory sessions will be held on the main campus of Michigan State University in East Lansing, Michigan, USA. Single-room accommodation is available on campus.

When do I apply? Application is open until February 14th, 2011 at the site below.

Additional information and application forms are available at: <http://www.mmg.msu.edu/> Jay T. Lennon Assistant Professor W.K. Kellogg Biological Station Department of Microbiology & Molecular Genetics. Michigan State University 3700 East Gull Lake Drive Hickory Corners, Michigan 49060 269-671-2340 lennonja@msu.edu Lab website: <http://microbes.kbs.msu.edu/> Lab wiki: <http://lennonlab.kbs.msu.edu/> lennonja@MSU.EDU

Mississippi HerpetologyDiversity May16-27

Field Course in Herpetology

May 16-27, 2011

The Gulf Coast Research Laboratory in Ocean Springs, Mississippi is pleased to offer a new course - Coastal Herpetology - from May 16-27, 2011. The coastal plain of the Southeast boasts an outstanding diversity of amphibians and reptiles, making the region an excellent place to study these often reclusive and elusive creatures. This course will provide students with an introduction to herpetology through lectures and associated readings, discussions of original research papers, and a class project. Topics covered will include the ecology, evolution, life history, diversity, behavior, and conservation of amphibians and reptiles. There will also be many field excursions highlighting the methods and techniques for capturing and studying amphibians and reptiles. Be prepared to get wet and muddy since we will be exploring the marshes, pine woods, bayous, and other habitats as we search for and learn about the amphibians and reptiles of the northern coast of the Gulf of Mexico. Three semester hours of credit is available through the University of Southern Mississippi or one of many affiliated universities. Applications will be accepted through May 2, 2011. For more information, visit us at www.usm.edu/gcrl or contact the instructor, Dr. Matthew Chatfield, at mattchat@tulane.edu.

– Matthew W. H. Chatfield, Ph.D. Tulane University
 Dept of Ecology & Evolutionary Biology 400 Lindy
 Boggs Building New Orleans, LA 70118 (504) 862-8289
 mattchat@tulane.edu

“And the end of all our exploring will be to arrive where
 we started, and know the place for the first time.” - T.
 S. Eliot

mwhchatfield@gmail.com

Reykjavik EMBO Computational Biology Aug6-13

Dear Colleagues,

We are pleased to inform you about the upcoming
 “EMBO Practical Course - Computational biology:
 Genomes, Cells & Systems”

to be held in Reykjavík, Iceland from 6th to 13th of
 August 2011.

The 7-day course is the fourth in a successful series, and
 has the ambitious goal to introduce advanced methods
 and applications of computational biology.

Participation is restricted to 20 graduate students and
 postdocs. For all participants, fellowships will be made
 available covering housing, subsistence and registration.
 No funding are available for travel costs.

Closing date for applications: March 31st, 2011 Further
 information and registration at [http://cwp.embo.org/-
 pc11-07/](http://cwp.embo.org/-pc11-07/) Sincerely,

Francesca Ciccarelli, for the organizers*

* Organizing Committee:

Dr. Peer Bork, EMBL Heidelberg , Germany Dr.
 Francesca D. Ciccarelli, IEO Milan, Italy Dr. Jan Kor-
 bel, EMBL Heidelberg , Germany Dr. Roland Krause,
 Max-Planck-Institute Berlin, Germany Dr. Eirikur Ste-
 ingrimsson University of Iceland Reykjavik, Iceland

–

Francesca D. Ciccarelli, PhD Evolutionary Ge-
 nomics of Cancer IFOM-IEO-Campus Via Adamello,
 16 20139 Milan, Italy tel +39-02574303053 fax
 +39-0294375990 web: [http://ciccarelli.group.ifom-ieo-
 campus.it/](http://ciccarelli.group.ifom-ieo-campus.it/) francesca.ciccarelli@ifom-ieo-campus.it

Teaching Evolution For Postdocs 2011

*Second Invitation to Apply: FIRST IV -Teaching
 Workshops for Postdocs in Biology*

Postdoctoral researchers in any field of biology are
 invited to participate in Faculty Institutes for Re-
 forming Science Teaching (FIRST IV) for Postdoctoral
 Scholars, funded by the National Science Foundation
 and associated with five regional field station networks
 throughout the United States (locations and dates de-
 scribed on www.firstiv.org). FIRST IV focuses on re-
 form of undergraduate biology education through pro-
 fessional development of postdocs. Participating post-
 docs will design an inquiry-based, student-centered un-
 dergraduate biology course.

Key elements of FIRST IV include active learning, as-
 sessment and diversity in teaching. Postdocs will at-
 tend two workshops during consecutive summers, a
 four-day workshop in 2011 followed by a three-day
 workshop in 2012. During the academic year between
 the two workshops, postdocs will teach all or part of an
 introductory biology course (e.g., cell biology, genet-
 ics, ecology, organisms, populations, evolution) at their
 home institution using the course framework they de-
 signed during the workshop. A team of scientists who
 are expert innovators, teachers, and professional devel-
 opers will conduct the workshops at the field stations
 and mentor the postdocs during the academic year.

Who should apply? Postdoctoral researchers who
 have an interest in and commitment to teaching. We
 encourage individuals or teams of two postdocs from
 one institution to apply.

Cost? The NSF is sponsoring all expenses for work-
 shop participants at field stations, including room,
 board, and instructional materials and will provide up
 to \$400 in travel expenses for each postdoctoral fellow
 for each workshop attended.

Second call application due: January 30, 2011 Notifica-
 tion of acceptance: February 21, 2011

*Questions? Contact Diane Ebert-May, Department
 of Plant Biology, Michigan State University, ebert-
 may@msu.edu

Application is on the FIRST IV web site: [**www.firstiv.org](http://www.firstiv.org)
 **Please name your completed ap-
 plication file: **LastnameFirstname_FIRSTIVapp.pdf *

*Send all application materials as one PDF document to: ** apply@firstiv.org*

– Diane Ebert-May, PhD Professor, Plant Biology 270 Plant Biology Michigan State University East Lansing, MI 48824 (office) 517.432.7171 (cell) 517.256.3536 (fax) 517.353.1926

<http://www.plantbiology.msu.edu>

<https://www.msu.edu/~first4/> <

<https://www.msu.edu/%7Efirst4/> > <https://www.msu.edu/course/bs/110/ebertmay/> Sarah

Jardeleza <sarahejw@msu.edu>

tion. Please contact us to reserve your place. Before February 28, 2011 800 RMB for domestic scientists and 450 USD for foreign scientists 400 RMB for domestic students and 200 USD for foreign students After February 28, 2011 950 RMB for domestic scientists and 550 USD for foreign scientists 500 RMB for domestic students and 250 USD for foreign students Accommodation: 600 RMB for 4 nights at the garden hotel.

===Agenda Registered participants will have access to whole genome sequence data, obtained on the Illumina platform, from numerous species of tropical tree, primarily in the genus *Ficus* (figs) and the family Fagaceae (tropical oaks). Genome coverage ranges from 3x to 20x, with most averaging 10x. Confirmed participants include Jeffrey Boore, David Galbraith, Ruan Jue, Mike Arnold, among others from a variety of fields.

Prior to the workshop, a set of draft questions and protocols will be shared through Google Docs, allowing participants to become familiar with the overall objectives of the workshop, to improve the questions, and suggest new ones. Registered participants can also choose to lead specific topics from the agenda below or suggest their own topics. We will be providing a more detailed agenda by the end of January, 2011. We will also develop criteria for inclusion of participants as co-authors on manuscripts that are developed during the workshop.

interested in attending, please contact cskual@gmail.com or chuck@xtbg.ac.cn. Check for updates after Feb 1, 2011 of the agenda at <http://www.ecologicalrevolution.org/training/> chuck.cannon@gmail.com

Yunnan China GenomicsTropicalBiodiversity Jun27-Jul1

Genomics of Tropical Biodiversity (Working Session I)
Time and Place : 2011 June 27 to July 1 Xishuangbanna Tropical Botanical Garden, Menglun, Yunnan, China.

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===Registration Registration is currently open for scientists and students who want to participate in the workshop but the number of participants will be limited, so that we can have a productive and focused ses-

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

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

Afterword

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.