
E v o l D i r

January 1, 2007

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

Forward

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

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

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



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Conferences

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Bayreuth Germany PhDEvolBiol Deadline

Graduate Meeting of the Evolutionary Biologists of the German Zoological Society: DEADLINE for registration: December, 15th, 2006

Graduate Meeting of the Evolutionary Biologists of the German Zoological Society

February 2007 in Bayreuth, Germany

The 12th meeting of the study group Evolutionary Biology will take place on February, 23-25, 2007 at Bayreuth University. The main topic of the meeting will be life-history evolution, though contributions from all other fields of evolutionary biology are welcome. Confirmed keynote speakers include Prof. Sauer (Bonn), Prof. Blanckenhorn (Zürich), and PD Dr. Sommer (Berlin). Registration is free of charge.

For more information visit http://www.uni-bayreuth.de/departments/toek1/dzgtagung/-index_e.htm . PD Dr. Klaus Fischer Zoological Institute & Museum University of Greifswald D-17489 Greifswald, Germany Phone: + 49-3834-864256 Fax: + 49-3834-864252 E-mail: klaus.fischer@uni-greifswald.de

PhD meeting EvoBio in Bayreuth! <http://www.uni-bayreuth.de/departments/toek1/dzgtagung/>
klaus.fischer@uni-greifswald.de

Chiapas Mexico SalamanderEvol

Dear Colleagues,

I would appreciate your assistance in bringing the attached announcement to the attention of anyone who might want to attend the 5th Conference on the Biology of Plethodontid Salamanders next summer in Chiapas, Mexico.

For further information about the conference, please contact Gabriela Parra <gparra@ibiologia.unam.mx>. Thanks very much.

The website for this meeting is listed below:

<http://www.ibiologia.unam.mx/barra/congresos/-salamandra/salamandra.html> If this link does not work, please try this link to the same page *<http://tinyurl.com/yedety> Carol L. Spencer, Ph. D. Museum of Vertebrate Zoology 3101 Valley Life Sciences Building University of California, Berkeley, CA, USA 94720-3160 atrox10@gmail.com atrox@berkeley.edu phone 510-643-1620 /fax 510-643-8238 <http://www.herpnet.org> atrox10@gmail.com

Cologne EvolDevelBiol Mar22-23

Dear Evol Dir users,

We are happy to announce our first 'Crossroads in Biology' symposium to be held in Cologne during 22-23 March, 2007.

'Crossroads in Biology' is a free of charge event organised by students of the International Graduate School in Genetics and Functional Genomics from Cologne. It will be a multidisciplinary meeting which aims to bring together outstanding scientists and students from diverse backgrounds and provide a forum for multidisciplinary discussions.

The program containing speakers in Evolutionary Developmental Biology, Cellular Behaviour, Disease and Defence, and Structural Biology is attached for your consideration.

In addition to lectures, small discussion groups offer students and speakers a possibility to talk about science in an informal setting. Students will showcase their own research by giving talks or presenting their data during the poster session. Posters from students outside our Graduate School are especially welcome.

From now the registration for the Crossroads in Biology Symposium is open (<http://crossroads.uni-koeln.de/-registration.php>).

To receive further information concerning the 'Crossroads in Biology' Symposium please visit our webpage (<http://crossroads.uni-koeln.de/>). If you have further questions, don't hesitate to contact us.

We are looking forward to meeting you in Cologne!

Crossroads in Biology Organizing Committee

– Rodrigo Nunes da Fonseca Universität zu Köln - Institut für Entwicklungsbiologie D-50923 Köln Gyrhofstrasse 17 (Lindenthal)- AG Roth Tel: 49-221-470-3167 Fax: 49-221-470-5164 <http://fonsecarn.50webs.com/> fonsecar@uni-koeln.de

HunterCollege GeneStrucFunc Jan19

20th Annual International Symposium Center for Study of Gene Structure & Function Hunter College, City University of New York

Friday, January 19th, 2007 Room 714 Hunter West Building, 68th Street & Lexington Avenue, New York City

Morning Session 9:00am*

Paul Ewald University of Kansas "Gene/Environment Interaction and the Causes of Atherosclerosis."

Christina Gutierrez Pasteur Institute, France "Parallel Origin and Diversity of TB Agents and Humans"

Steve Mack Roche Institute "Using the Human Major Histocompatibility Complex to Study Disease, Natural Selection and Human Evolution"

Holly Wichman University of Idaho "Experimental Evolution in a Virus Model System"

Afternoon Session 1:00pm*

Stephen Bezruchka University of Washington "Targeting Childhood Development to Make the Nation Healthy Again."

Arata Kochi Director, World Health Organization's Global Malaria Program (WHO/GMP) "Malaria control: why it has failed and how to fix it? Public health approaches and international politics"

Stuart Levy Tufts University "The Ecology of Antibiotic Resistance"

Randolph Nesse University of Michigan "Darwinian Medicine: Why has Natural Selection Left Us So Vulnerable to Disease?"

Paul Sherman Cornell University "Allergies and Cancers: Are the Complex Relationships Comprehensible?"

*Names are in alphabetical order

This event is free and open to the public. Online registration is encouraged.

Enter student poster session contest - submit abstract on the symposium website: <http://-genecenter.hunter.cuny.edu/evosymposium/> Supported by the Research Centers in Minority Institutions Program of the Division of Research Infrastructure of the National Center for Research Resources of the National Institutes of Health - Grant Number G12 RR-03037

Leah T Abraha <abraha@GENECTR.HUNTER.CUNY.EDU>

Marseilles 11EBM Sep18-21 Deadline

The 11th EBM at Marseilles early dead line is December 31st, 2006

The following topics will be discussed

The following subjects will be discussed: - Evolutionary biology concepts and modelisations for biological annotation; - Biodiversity and Systematics; - Comparative genomics and post-genomics (at all taxonomic levels); - Functional phylogeny; - Environment and biological evolution; - Origin of Life and exobiology. more info at <http://www.up.univ-mrs.fr/evol-cgr/> Pierre Pontarotti EA 3781 Evolution Biologique Université d'Aix Marseille I Centre St Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 33491106489 <http://www.up.univ-mrs.fr/evol>

Pierre.Pontarotti@up.univ-mrs.fr

Paris DNASampling Mar15-16

CALL FOR ABSTRACTS: Conference DNA SAMPLING STRATEGIES AND DESIGN“ - Paris (France), 15-16 March 2007 Organizers: Evelyne Heyer and Franz Manni Scientific committee: Frédéric Austerlitz, Evelyne Heyer, Raphael Leblois, Franz Manni, Lluís Quintana-Murci

The aim of this methodological conference is to discuss the issue of the sampling in human population genetics studies (selection of DNA donors, definition of populations and choice of markers). If the sampling is the base of any study, it is seldom addressed—in itself— as a research question, and scholars seem to design their sampling strategies according to a personal cookbook that may have its merits but may also suffer from hidden limitations. If the sampling strategy is closely related to the research question and to the type of markers used, we think that a broad and wide discussion on the sampling itself will help us to establish more consensual procedures that, hopefully, will lead to more trustworthy results.

A call for abstracts is now open at the following address: http://www.mnhn.fr/mnhn/ecoanthropologie/-DNAsampling_2007/index.html Dr. Franz Manni Maître de conférences / Lecturer UMR 5145 - Eco-Anthropology Group National Museum of Natural History MNHN - Musée de l'Homme 17, Place du Trocadéro 75016 Paris - France Tel. 0033 1 44 05 72 84 Fax. 0033 1 44 05 72 41 Telex Musethno

Franz Manni <manni@mnhn.fr>

Roscoff EvolGenomics May2

A Conference Jacques Monod “Evolutionary Genomics” will take place at Roscoff (France) on May 2-2007. Deadline for application: February 1, 2007.

For more information and registration visit: <http://www.cnrs.fr/sdv/cjm/cjmveuille.html> Evolutionary genomics is concerned with the selective forces acting on the evolution of genome function in populations, and the complementarity of informations provided by coding and non-coding parts of the genome. Three major events have deeply modified this research field at the start of the 21st century. Firstly, studies in evolutionary genomics have shown that a larger part of coding regions than hitherto suspected is subject to strong selective constraints, suggesting that so-called junk-DNA is less important than was previously thought. Secondly, genomics programs are generating massive amounts of data. In addition to comparative species data, an unprecedented amount of polymorphic data is now being created. Finally, it has become apparent that genomes contain much smaller numbers of genes than was formerly expected, even though living organisms synthesize large numbers of proteins, expressed at several different levels of expression.

The program of the conference aims to present the current state of a research field that has emerged over the last ten years. It does not intend to show final results, but rather to identify new research directions and fields of synergy. The conference is therefore structured into questions corresponding to conceptual issues, in a field whose study relies on a very broad theoretical framework in mathematics and bioinformatics.

Among the invited speakers: *Montserrat AGUADE *(Barcelona, Spain), *Andrew CLARK *(Ithaca, USA), *Stewart T. COLE *(Paris, France), *Laurent DURET *(Villeurbanne, France), *Peter D. KEIGHTLEY *(Edinburgh, UK), *Rasmus NIELSEN *(Copenhagen, Denmark), *Noah A. ROSENBERG *(Ann Arbor, USA), *Wolfgang STEPHAN *(Planegg-Martinsried, Germany), *John WAKELEY *(Cambridge, USA), *Patrick WINCKER *(Evry, France)

– Catherine Montchamp-Moreau UPR 9034 Laboratoire Evolution, Génomes et Spéciation (LEGS) CNRS Avenue de la Terrasse 91198 Gif sur Yvette Cedex Tel: 01 69 82 37 20 Fax: 01 69 82 37 36 <http://www.legs.cnrs-gif.fr/>

Catherine Montchamp-Moreau
<Catherine.Montchamp@legs.cnrs-gif.fr>

UCentralFlorida
SoutheasternEcologyEvolution
Mar16-18 2

All graduate students, undergrads, and post-docs are cordially invited to the 4th annual Southeastern Ecology and Evolution Conference hosted by the University of Central Florida, Orlando (16-18 March 2007). Sessions include but are not limited to topics in community, ecosystem, population and behavioral ecology; evolution: phylogenetics and behavior; conservation: genetics, biodiversity and climate change. For more information and to register visit us at <http://biology.ucf.edu/seec/>. Early registration and abstract deadlines are February 16, 2007.

The cost of registration is \$30. All attendees will receive a conference t-shirt and green bag, as well as a full buffet dinner, continental breakfasts and snacks. We will also be giving out awards for the best posters and talks.

We've attached an updated conference flyer. Please post it widely and forward this email to all students who may be interested as well as graduate coordinators and department secretaries. The success of SEEC requires participation. We hope that those of you who have participated in the past will encourage your peers to join in this rare opportunity to learn, share and network with future colleagues while enjoying sunny Florida.

We thank you all very much for your assistance in making SEEC 2007 a success.

We look forward to seeing you in March!

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

BGSA Officer SEEC Co-Coordinator Email: seec2007@mail.ucf.edu Website: biology.ucf.edu/seec

SEEC 2007 <seec2007@mail.ucf.edu>

VenturaBeachCA
QuantGenetGenomics Feb18-23

This is a second reminder that the semi-annual Gordon Conference on Quantitative Genetics and Genomics will take place February 18-23, 2007 at the Ventura Beach Marriott, Ventura, California. Conference participants consistently rank this as the best meeting that they attend. We emphasize crossdisciplinary communication, cutting edge work, and a lot of fun (including the traditional wine-country tour). The 2005 meeting sold out, so count on registering early.

The full schedule is now available at (an overview is given below): <http://www.grc.org/programs/2007/-quantgen.htm> Quantitative genetics aims to link phenotypic variation to its underlying genetic basis in order to better understand and predict genetic composition and long term change within natural, agricultural, and human populations. Traditionally built upon statistical abstractions of genetic effects, the field is now rapidly advancing by making use of recent developments in genetic technology to reveal explicit links between genes and complex phenotypes, and therefore serves as a focal point bringing together many emerging areas of genetics, genomics, statistics, and biotechnology. This synthesis is already having a large impact on the areas of evolutionary biology, plant and animal breeding, and the analysis of human disease. The strength of the Gordon Conference on Quantitative Genetics and Genomics has historically been the bringing together of leaders in each of these fields to explore areas of shared interest and cutting edge developments with the potential to affect all researchers within the broad field of quantitative genetics.

Building upon the tremendous success of our conferences in recent years, we will again focus on cutting edge developments in the field, especially highlighting whole genomic approaches to marker analysis, association mapping, transcriptional profiling, and statistical analysis. As the field turns its attention from loosely mapped chromosomal regions to specific genetic elements, elucidation of gene function in a quantitative genetic context becomes central, and these approaches will also be highlighted here. Finally, comprehensive solutions to understanding genetic basis of complex variation require large-scale collaborations among researchers, and several exemplars of these efforts will be

presented.

We look forward to meeting you in Ventura, CA in February of 2007! Your continued participation and support of this conference is greatly appreciated. As you will see from the schedule, afternoons are free for adventure and discussion, while poster sessions will be held in the evening.

See you in Ventura! Patrick Phillips and Daniel Pomp
2007 Gordon Conference in Quantitative Genetics and Genomics February 18-23, 2007 Ventura Beach Marriott, Ventura, CA

SUNDAY 2:00pm-9:00pm Arrival and check-in * Opening Remarks & Announcements Chair: Patrick Phillips (University of Oregon) * Historical Perspective - Eugene Eisen (North Carolina State University) "Historical roots of the Gordon Conference on Quantitative Genetic and Genomics"

* Keynote - Elliot Meyerowitz (Cal Tech) "Regulated morphogen transport, a new mechanism in genetic control of plant development" 9:00pm - 9:15pm Discussion

MONDAY * Developmental Basis of Quantitative Variation Discussion Leader: Marie-Anne Felix (Inst Jacques Monod, CNRS) - Introduction and concepts (Marie-Anne Felix) - William Cresko (University of Oregon) "The model organism is dead, long live the model organism: Quantitative and developmental genetics of stickleback" - Fred Nijhout (Duke University)

"Development and evolution of body size: multidimensional response to selection on correlated characters" - David Houle (Florida State University) "Mutation, variation, and divergence"

* Collaborative Crosses Discussion Leader: David Threadgill (University of North Carolina) - Introduction and concepts (David Threadgill) - Ed Buckler (USDA-ARS/Cornell University) "Association mapping of diverse maize" - Elissa Chesler (Oak Ridge National Labs) "The collaborative cross at ORNL: a community resource for systems genetics"

TUESDAY * Statistical Genomics - Manolis Dermitzakis (Wellcome Trust/Sanger Institute) "Inference of cis and trans regulatory variation in the human genome" - Rebecca Doerge (Purdue University) "Functional genomics of quantitative traits: expression level polymorphisms of QTLs affecting disease resistance pathways in Arabidopsis" - David Allison (University of Alabama, Birmingham) "Regional admixture mapping and structured association testing: conceptual unification and an extensible general linear model"

* Genetic Architecture of Transcriptional Variation Discussion Leader: Loren McIntyre (Univ. of Florida)

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

GradStudentPositions

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EdinburghU InfluenzaEvolGenomics	9	UHawaii ConsBiol	15
LaurentianU TurtleConservation	10	UHouston EvolBiol	15
MichiganStateU LakeSturgeonEvolGenet	10	UIllinoisChicago PlantEvol	16
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CarletonU BehaviouralEvolution

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

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

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

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

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

Sincerely,

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

Susan.Bertram@carleton.ca

ChicagoBotanicGardens ConservationBiol

Below is an advertisement for a graduate research internship, working at Bureau of Land Management (BLM) and the National Parks Service (NPS) offices, in the areas of conservation biology and natural resource management. This internship provides a invaluable opportunity to gain a wide breath of field experiences. If you could pass it onto any interested parties (particularly biological science, EEB and Environmental Science majors) or advertise it within your respective departments, it would be much appreciated. For printed advert, applications and any additional inquires please contact Dr Lara Jefferson (ljefferson@chicagobotanic.org)

Cheers

---- Chicago Botanic Garden,s Conservation and Land Management Internship Program in collaboration with the Bureau of Land Management and National Park Service

80 five-month paid internships for outstanding college graduates

Working with the Bureau of Land Management (BLM), National Park Service (NPS) or USDA Forest Service (FS) predominantly in the western states

Intern duties may include: Plant and wildlife monitoring and mapping Endangered species reintroduction Invasive species management Geographic data acquisition and analysis Biological assessments, sensitive species lists and conservation plans Fire ecology Land use planning Archaeology-related activities Recreation areas management Rangeland assessments Seed collec-

tion

Interns participate in a one-week training course held in late May in Chicago. Travel and lodging expenses will be covered. Training includes BLM/NPS/FS orientation, Endangered Species Act and associated programs, plant and animal identification and monitoring, GIS and mapping, and topographical map reading and GPS skills.

\$750 / pay period (every 2 weeks)

Start dates: January and June 2007

How to apply: Send a letter of interest, official school transcript(s), resume, and three letters of recommendation as one package to the address below by February 15, 2007 (December 15 for the earlier start date). Applicants must have a visa authorized for employment in the United States of America.

Pending funding, an optional extension may be offered to selected interns for an additional 5-month internship with the Department of Environment and Conservation in Western Australia.

The internship may also be conducted as the research component of a Masters program with Northwestern University and Chicago Botanic Garden. For application information, visit <http://www.plantbiology.northwestern.edu>

For more information visit the website: <http://www.chicagobotanic/research/conservation/blm/index.html>

Lab@chicagobotanic.org

ClemsonU MarineInvertEvol

GRADUATE STUDENT POSITION IN MARINE INVERTEBRATE EVOLUTION

Dr. Amy Moran is seeking graduate students at the PhD level to participate in laboratory research involving marine invertebrate larval ecology and evolution and focusing on larval feeding ecology, evolution in contrasting environments, and cold-temperature adaptation of Antarctic invertebrates. Applicants should have strong interests in invertebrate biology, marine ecology, and/or evolutionary approaches involving comparative approaches and the fossil record. Annual PhD stipends of \$17,000 are guaranteed for 5 years, and can be augmented by grant funds when appropriate. In addition, applicants are eligible to compete for fellowships from the graduate school of \$10,000 or \$15,000. For more

information regarding the ecology and evolutionary biology emphasis area in the Biological Sciences graduate program at Clemson, please visit our department web site (<http://www.clemson.edu/biosci/graduate/>) and my lab web page (<http://www.clemson.edu/biosci/faculty/moran/lab/>). Inquiries should be sent to moran@clemson.edu. Please include a CV, a statement of research interests, and contact information for three references. Screening of applicants will begin December 10, 2006.

moran@CLEMSON.EDU

Dr. Amy L. Moran Department of Biological Sciences 132 Long Hall Clemson University Clemson, SC 29634 864-656-1488 www.clemson.edu/biosci/faculty/-moran/ Amy Moran <moran@clemson.edu>

ColoradoStateU EvolEpidemiology

Interested in Graduate Student Positions:

An NSF-funded Graduate Research Assistantship is available for a student interested in theoretical and experimental studies of transmission dynamics, especially related to epidemiological dynamics, in a social group. For further details about the kind of research you might do, take a look at (<http://rydberg.biology.colostate.edu/faculty/-profile.php?name=Naug>). Field and laboratory experiments will focus mainly on honey bees, but applicants interested in other hymenopterans could develop independent projects in the same area if theyve arguments compelling enough. Competitive applicants will have a strong background in one or more of the following areas: behavior, ecology, evolution, physiology, statistics, computer modeling, and mathematics. Students with quantitative backgrounds are especially encouraged to apply. Additional positions may become available, but these will likely be funded through teaching assistantships.

Applicants should send a letter of interest, a curriculum vitae, GRE scores, and a list of three references by e-mail to Dhruba Naug (dhruba@lamar.colostate.edu).

Applications may also be sent by regular mail to the following address: Dhruba Naug, Department of Biology, Colorado State University, Fort Collins, CO 80523.

If you have any questions regarding this position, please contact Dhruba Naug (dhruba@lamar.colostate.edu)

arathi@lamar.colostate.edu

DalhousieU EvolMitochondria

GRADUATE STUDENT (PhD program)?evolutionary cell/molecular biology of mitochondria and hydrogenosomes in anaerobic protists

Laboratory of Andrew J. Roger, Department of Biochemistry and Molecular Biology, Dalhousie University Halifax, Nova Scotia CANADA

We seek a highly skilled and self-motivated student to explore the evolution of metabolic and functional properties of mitochondrion-derived organelles (e.g. hydrogenosomes and mitosomes) in diverse free-living and parasitic anaerobic protists. Specifically, the research will concern the subcellular localization of putative organellar proteins, purification and proteomic analysis of these organelles, as well as elucidation of organelle function from EST surveys of anaerobic protists. The organisms we are studying include poorly studied unicellular eukaryote lineages and will provide key insights into the early evolutionary history of mitochondria in the eukaryote lineage.

The Roger Lab is part of a collegial and internationally recognized community of comparative genomics and molecular evolution researchers at Dalhousie University. The successful applicant will have the opportunity to work collaboratively with these researchers and with those at other institutions. Demonstrated skills in cell and molecular biology (e.g. immunofluorescence, immuno-EM, SDS-PAGE and Western blotting & subcellular fractionation), bioinformatics, comparative genomics, genome evolution and phylogenetics are important, as are strong written and oral communication abilities.

Students applying must comply with the minimum requirements of the Department of Biochemistry and Molecular Biology graduate program: (see <http://www.biochem.dal.ca/graduate/index.php> for more information). All qualified and interested persons are encouraged to apply. Applicants should email (1) a brief cover letter outlining their qualifications and research interests, (2) a curriculum vitae and (3) contact information for three references to:

Andrew Roger Andrew.Roger@dal.ca <http://rogerlab.biochem.dal.ca> Associate Professor and Fellow, CIAR Program in Evolutionary Biology

Department of Biochemistry and Molecular Biology Dalhousie University Sir Charles Tupper Medical Building 5850 College Street, Halifax, Nova Scotia B3H 1X5, CANADA

Phone: (902) 494-2620 Fax: (902) 494-1355

CLOSING DATE: January 15, 2006.

– Andrew J. Roger Associate Professor, Fellow CIAR Program in Evolutionary Biology Dept. of Biochemistry and Molecular Biology, Dalhousie University Rm 8B1, 5850 College St., Halifax, N.S. B3H 1X5 Canada tel:902-494-2620 (office) tel:902-494-2881 (lab) fax:902-494-1355 lab webpage: <http://rogerlab.biochem.dal.ca> Whatever you do, don't mention rabbits..... They are the new weapons of mass destruction.

Check out: www.climatecrisis.net and/or www.climatecrisis.net Andrew.Roger@Dal.Ca

EdinburghU InfluenzaEvolGenomics

PhD studentship: Evolutionary genomics of influenza A virus

Funding is available to students from EUROPE/UK ONLY

Application Deadline: 01 February 2007

Influenza is one of the most common, and serious, respiratory infections of humans. However, it is only with the recent explosion in computational power that we have been able to employ the numerical techniques required to analyse the 1000s of complete viral genomes currently being produced year. The genome of influenza A virus (IVA) comprises a negative-sense molecule arranged as eight segments which encode 11 proteins. Not only do these genomic segments evolve extremely rapidly through the accumulation of mutations, the viruses can also recombine the segments to create new variants (a process called reassortment). This project would involve developing and applying state-of-the-art computational techniques (Drummond et al, 2006) to analyse genomic sequences of IVA sampled globally over time. The aim is to investigate the rate of molecular evolution, the degree of selection acting on the genomic segments, the interactions between the segments and the rate of genetic exchange. Notably, although comparative studies have revealed that reassortment is a relatively frequent process within the subtype H3N2, it is unknown whether specific segments, or combinations

of segments, exhibit higher or lower rates of reassortment than others. Thus the importance of reassortment as an evolutionary force will be assessed relative to the process of mutation. This project will also look at the seasonal dynamics of the different subtypes of IVA and how they interact with each other through cross-protective immunity. Ultimately this project aims to improve our understanding of the dynamics of influenza virus evolution and to help us answer some important questions about future epidemics. For example, can we predict whether the current highly-virulent form of avian influenza (H5N1) will emerge as a new disease of humans? How will it interact with existing human forms of the disease?

This project will entirely consist of computational analysis. It would be suitable for a graduate in computer science or physical sciences with a strong interest in evolutionary biology of infectious diseases or a biology graduate with excellent computer and numerical skills.

Interested individuals should send CV and a one page statement of your research interests directly to: Dr Andrew Rambaut <a.rambaut@ed.ac.uk>

Drummond AJ, Ho SYW, Phillips MJ & Rambaut A. (2006) Relaxed Phylogenetics and Dating with Confidence. *PLoS Biology*. 4, e88.

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

a.rambaut@ed.ac.uk a.rambaut@ed.ac.uk

LaurentianU TurtleConservation

MSc Position Laurentian University, Ontario

I am seeking a highly motivated and independent person with a love of the outdoors to fill an MSc position starting April 2007 to work on critical habitat assessment of the federally Endangered Spotted Turtle (*Clemmys guttata*) in south-central Ontario, Canada. The two-year radio telemetry project is fully funded and the budget includes salary for a fulltime field technician to support the graduate student in spring and summer. The graduate student will work as a field researcher from April - August 2007, and formally begin in the MSc Program in September 2007; thus, the student will have a full field season of data collection finished before starting in the MSc Program. The grad-

uate student would be expected to create and develop an additional project component complementary to the required research. Excellent communication skills are required as the student will be expected to participate in outreach education programs about reptiles at risk. Laurentian University will provide a GTA during the school year.

My research program uses primarily field-based approaches to address questions in the areas of evolutionary ecology and conservation biology of reptiles, including examination of the adaptive significance of life history variation at geographic extremes (e.g., at northern range limit) and the application of these data to the design of conservation plans.

Please send a cover letter, CV and unofficial transcript to:

Dr. Jackie Litzgus Department of Biology Laurentian University 935 Ramsey Lake Road Sudbury, Ontario, P3E 2C6, Canada jlitzgus@laurentian.ca <http://biology.laurentian.ca/faculty/litzgus.htm> Dr. Jacqueline D. Litzgus Assistant Professor Academic Advisor - Terrestrial & Aquatic Ecology Option Editor - Canadian Association of Herpetologists Bulletin Section Editor - *Copeia*

Department of Biology Laurentian University 935 Ramsey Lake Road Sudbury, Ontario P3E 2C6 CANADA e-mail: JLitzgus@laurentian.ca Office: room F609A, phone 705-675-1151 ext. 2314 Lab: room S608, phone 705-675-1151 ext. 2289 Fax: 705-675-4859 <http://biology.laurentian.ca/faculty/litzgus.htm> “I look at this turtle now in my hand and wonder what grace allows me to hold and ponder such a tangible piece of the history of life on Earth.” David M. Carroll, 1991, *The Year of the Turtle*

jlitzgus@laurentian.ca

MichiganStateU LakeSturgeonEvolGenet

PhD Position - Lake Sturgeon Population Ecology and Genetics Department of Zoology, Michigan State University

A PhD position is available beginning in the spring of 2007 to work with an inter-disciplinary team examining genetic and environmental effects on lake sturgeon early life history traits and recruitment under field and experimental conditions. We are looking to recruit a stu-

dent with interests in conducting field and laboratory research, with quantitative skills and interests in population ecology, genetics, and behavior. Opportunities exist to expand existing studies to examine aspects of the species' mating system and to estimate the impacts of differential recruitment to cohort levels of coancestry and long-term population viability. The research is part of a long-term project directed by Michigan State University and the Michigan Department of Natural Resources. The study area is located in the northern lower peninsula of Michigan on the Black River. Facilities include a stream-side aquatic research laboratory that is equipped for experimental rearing eggs and juveniles across multiple life history stages. Inquiries can be directed to Dr. Kim Scribner at Michigan State University; tel: 517-353-3288; e-mail: scribne3@msu.edu. Applications are due to the Zoology Departmental office in early January.

scribne3@msu.edu

NorthernArizonaU Evolbiol

Dear colleagues: Please distribute this information broadly to faculty advisors and potential students.

NAU IGERT Program in Integrative Bioscience: Genes to Environment

NAU invites applications for six PhD student traineeships at Northern Arizona University for students admitted for the 2007/08 academic year. The purpose of this program is to provide students with instruction and research training focused on linkages between molecular genetics and ecosystem phenomena, with special emphasis on multi-scale modeling approaches. Program graduates will have the skills to address fundamental and applied questions of genetic influences on ecosystem function and response to environmental change. Unique aspects of this program include: 1) multidisciplinary research with a special emphasis on scaling phenomena, 2) inclusion of molecular methodology and applied statistics coursework in all programs of study, 3) seminar courses covering scientific ethics, statistics and modeling, and student research, featuring guest speakers from integrative disciplines, 4) unique internships with community colleges, federal agencies, and Native American high schools to broaden the graduate experience and enhance connections between the research and the broader community. The NAU Integrative Bioscience PhD program will prepare innovative and cre-

ative scientists to become leaders in research, science outreach and communication, and environmental problem solving.

Fellowship packages will include \$30,000/year stipend support for two years, with continued support at more traditional stipend levels. Applicants must concurrently apply to, or already be accepted in, doctoral programs in the Department of Biological Sciences <<http://www6.nau.edu/biology/>><http://www6.nau.edu/biology/> or the School of Forestry <<http://www.for.nau.edu/cms/>><http://www.for.nau.edu/cms/> at Northern Arizona University. Application deadlines for the 2007/08 academic year will be January 15th, 2007. Applications will consist of 1) standard applications required for Biology or Forestry graduate programs (including three letters of reference) and 2) a 2 page essay on how this program would address your research, educational, and career goals.

Please go to <http://www6.nau.edu/biology/igert/> or contact us by email and phone for more information: Dr. Catherine Gehring: Catherine.Gehring@nau.edu, (928) 523-9158 or Dr. Amy Whipple: Amy.Whipple@nau.edu, (928)523-8727

Amy V. Whipple Merriam-Powell Center for Environmental Research and Biological Sciences Mail: PO Box 5640 Packages: South Beaver Street BLDG. 21 Room 227 Office: Biology Building (21) Room 429 Northern Arizona University Flagstaff, AZ 86011 Fax: 928-523-8223 Phone:(w) 928-523-8727 (h) 928-714-0409 e-mail: amy.whipple@nau.edu <http://www.mpcer.nau.edu> Amy.Whipple@NAU.EDU Amy.Whipple@NAU.EDU

OxfordUniv Evolution

Project Description: A PhD studentship funded by the Marie Curie GeneTime Training Program is available in the Department of Zoology, Oxford University, beginning between now and October 2007.

The student will use both laboratory and computational techniques to investigate the process of molecular evolution in HIV-1. The focus of the project will be to better understand the dynamics of natural selection within a host, and how selective constraints change throughout the duration of infection, for example after the onset of drug treatment, or across a transmission bottleneck.

The student will be responsible for optimizing laboratory protocols for complete genome amplification, and for participating in the development of analytical techniques to evaluate within-patient, serially-sampled data. The student will be supervised by members of the Evolutionary Biology Group, Oxford, and the Rega Institute for Medical Science, Leuven, Belgium.

Eligibility:

Non-UK EU residents are eligible to apply for the studentship. The applicant also must not have lived in the UK for the year prior to the beginning of the studentship.

For further information please contact: beth.shapiro at zoo.ox.ac.uk

To apply please complete the University application form (available from: www.admin.ox.ac.uk/gsp/) and include two references from academic referees (follow procedure in Booklet A). Please submit two copies of the application form and all supporting material to the Graduate Administrator, Department of Zoology, University of Oxford, South Parks Road, Oxford OX1 3PS (and NOT the address detailed on the application form).

Closing date: 17 January 2007.

Oxford University is an Equal Opportunities Employer.

beth.shapiro@zoology.oxford.ac.uk

beth.shapiro@zoology.oxford.ac.uk

PortlandStateU EvolBiol

The Department of Biology at Portland State University is seeking graduate students to join a recently expanded focal area in ecology and evolutionary biology. Our faculty have active and interrelated research programs spanning all levels of biological organization, including behavior, physiology, population biology, conservation, genetics, systematics, and genomics. Research in this area is complemented by departmental strengths in microbiology, vertebrate biology, botany, and the biology of extremophile organisms.

Portland State University is located in downtown Portland and is the largest university in Oregon. The location provides the benefits of a livable, culturally rich urban center and easy access to the natural diversity of the Cascades, Columbia River Gorge, and the Oregon Coast. The University has a diverse and motivated

student body and is committed to sustainability and community outreach. Research facilities in the Department include the PSU-Keck Genomics Facility, Vertebrate Biology Museum, Herbarium, Aquatic Vertebrate Facility, and additional Greenhouses slated for completion in May 2007.

Please visit our website (www.biology.pdx.edu) for more information about the Department, faculty, graduate studies, and to submit an online application.

Faculty in ecology and evolutionary biology and their research interests include:

Mike Bartlett micb@pdx.edu archaeal transcription mechanism and evolution <http://www.biology.pdx.edu/people/bartlett/index.php>

Brad Buckley bbuckley@pdx.edu marine environmental genomics, ecophysiology, thermal stress

Mitch Cruzan cruzan@pdx.edu plant ecological genetics, invasive species, hybridization <http://web.pdx.edu/~cruzan/> Debbie Duffield duffieldd@pdx.edu population genetics, conservation biology, marine mammals <http://www.biology.pdx.edu/faculty/duffield/duffield.html>

Sarah Eppley eppley@pdx.edu plant population ecology, breeding system evolution <http://www.biology.pdx.edu/people/eppley/> Suzanne Estes estes@pdx.edu genetics of adaptation, mutational effects <http://www.biology.pdx.edu/faculty/estes-main.html>

Mark Fishbein mfish@pdx.edu plant systematics, pollination ecology, hybridization <http://web.pdx.edu/~mfish> Susan Masta smasta@pdx.edu genome evolution, speciation, arachnid evolution <http://web.pdx.edu/~smasta> Michael Murphy murphym@pdx.edu population ecology, behavior, vertebrate ecology, avian mating systems <http://www.biology.pdx.edu/faculty/murphy/murphy.html>

Jason Podrabsky jpod@pdx.edu developmental and evolutionary physiology, desert fishes, life history, functional genomics <http://killifish.pdx.edu> Radu Popa rpopa@pdx.edu microbial ecology, biogeochemistry, origin of life

Anna-Louise Reysenbach reysenbacha@pdx.edu ecology and diversity of thermophiles <http://airlab.pdx.edu>

Todd Rosenstiel rosensti@pdx.edu biosphere-atmosphere interactions, plant ecophysiology, global change <http://www.biology.pdx.edu> Luis A. Ruedas ruedas@pdx.edu animal systematics, evolution and biogeography, community ecology, conservation biology <http://www.biology.pdx.edu/faculty/ruedas-ruedas.html>

-Mark Fishbein <mfish@pdx.edu>
-Mark Fishbein <mfish@pdx.edu>

PurdueU TroutEvolDevo

POSITION ANNOUNCEMENT GRADUATE RESEARCH ASSISTANT Purdue University Developmental genomics in rainbow trout

Applications are sought for an outstanding graduate research assistant seeking a PhD program in quantitative and molecular evolutionary genetics and genomics, beginning in summer or fall 2007. Graduate research assistant would conduct research under a recently funded USDA Animal Genome grant, combining microarray expression with linkage and QTL mapping to efficiently identify potential candidate genes for development rate, growth, and age at sexual maturity in rainbow and steelhead trout. Dissertation research will provide training in the area of microarray expression experiments and statistical analyses, QTL mapping, and molecular evolution of genes underlying QTL for divergent life history traits. Graduate work would be conducted in the Ecology, Evolution, and Population Biology group in the Department of Biological Sciences, Purdue University, under the supervision of Dr. Krista Nichols. Purdue University is an excellent place for the study of genetics and genomics, with numerous statistical, quantitative, and population genetic faculty in multiple colleges and departments.

QUALIFICATIONS: Students with an M.S. in genetics or related discipline are preferred, although motivated students with a B.S. and strong research background may be considered. Strong quantitative and statistical skills are desirable.

APPLICATION: Interested students should contact Dr. Krista Nichols, kmnichol@purdue.edu, and make application to the Graduate School and Department of Biological Sciences at Purdue University (<http://www.bio.purdue.edu/Academic/graduate/-admission.htm>).

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

kmnichol@purdue.edu kmnichol@purdue.edu

Seewiesen Germany 2 EvolGenet

The Department of Behavioural Ecology & Evolutionary Genetics at the Max Planck Institute for Ornithology in Seewiesen (close to Munich/Starnberg, Germany) offers

Two PhD positions in Behavioural and Evolutionary Genetics

We are looking for PhD candidates to work on two projects about the genetic basis of fitness trait variation in a wild bird population.

The first project is about the genetic architecture of heterozygosity fitness correlations. Current hypotheses on locus-specific balancing selection, inbreeding avoidance, mate choice and variable environments will be tested, using data from a 7-year field study on blue tits, *Cyanistes caeruleus*. This project mainly involves genotyping in the lab and evolutionary / population genetic analyses.

The aim of the second project is to investigate genotype phenotype associations between clock genes and circadian behaviour in blue tits. Circadian activity traits under different natural conditions and under standardized experimental conditions will be measured and tested for genetic associations. This project combines intensive fieldwork with molecular genetic lab work.

We are seeking two highly motivated candidates interested in behavioural ecology in combination with evolutionary or population genetics (first position) or ornithology and genome analysis (second position).

The successful candidate will join an international research group at the Max Planck Institute for Ornithology with up-to-date molecular lab facilities and long-standing experience in avian behavioural ecology. Working language is English. Salary will be according to TvöD 13/2 (formerly BAT IIa/2).

The Max Planck Society is a equal opportunity employer. Disabled persons with comparable qualifications receive preferential status.

To apply, please send a cover letter describing your research interests, a complete CV and names of two referees by email to the address below. Applications will be reviewed until the position is filled. For informal inquiries contact Prof. Dr. Bart Kempenaers

or Dr. Jakob Mueller (see <http://www.orn.mpg.de/-staffall.html>).

Max Planck Institute for Ornithology Dept. Behavioural Ecology & Evolutionary Genetics Att.: Heike Gorny-Leimpeters D-82305 Starnberg (Seewiesen), Germany Phone: ++49-8157-932-232 Email: PHD.EvolGen@orn.mpg.de Fax: ++49-8157-932-400 Internet: www.orn.mpg.de mueller@orn.mpg.de mueller@orn.mpg.de

TexasAMU DrosophilaSpiroplasma

I am looking for a highly motivated graduate student to work on the evolution of the association between Drosophila flies and Spiroplasma bacteria. This research involves examination of the fitness effects of symbiont on hosts, evolutionary relationships of host and symbiont populations, comparative genomics of bacteria with different fitness effects on the host, and functional genomics of both host and symbiont.

If you are interested, please email me (mmateos@tamu.edu) a CV including references, a letter of interest (1-2 pages), a list of relevant course work, and GPA.

Mariana Mateos, Ph.D. Assistant Professor Section in Ecology and Evolutionary Biology Department of Wildlife and Fisheries Sciences Texas A&M University 320B Heep Laboratory Building 2258 TAMUS College Station, TX 77843-2258 Phone: 979-847-9462 Fax 979-845-4096 Email: mmateos@tamu.edu <http://wfsc.tamu.edu/mateoslab/> Mariana Mateos <mmateos@tamu.edu>

UBritishColumbia MolecularEvol

A Graduate Assistantship (M. S. or Ph. D.) is available in the lab of Dr. Keith Adams at the University of British Columbia (UBC) in the area of plant molecular evolution starting September 2007. I am looking for a highly motivated graduate student to work with me on molecular evolution and gene expression in polyploid and hybrid plants. See my web page at <http://www.botany.ubc.ca/people/adams.htm> Informal inquiries about the research area are welcome.

UBC has a strong and interactive group of evolutionary biologists (see <http://www.zoology.ubc.ca/%7Eotto/-Evolution.html>), including several at the Centre for Plant Research (<http://www.ubcbotanicalgarden.org/-research>) and Department of Botany (<http://www.botany.ubc.ca>).

Candidates should have a strong undergraduate background in biology, and prior research experience with molecular techniques is desirable but not required. For more information contact Keith Adams at keitha@interchange.ubc.ca

Keith Adams Assistant Professor Centre for Plant Research and Botany Department University of British Columbia Vancouver, Canada

keitha@interchange.ubc.ca keitha@interchange.ubc.ca

UEdinburgh EvolGenomics

The BBSRC has funded three postgraduate studentships in “Comparative and Evolutionary Genomics” at the Institute for Evolutionary Biology, University of Edinburgh, to start in September 2007.

These studentships provide full funding for four years to UK students. EU students are only eligible for fees, unless they have been resident in the UK for at least 3 years immediately before.

For details of research opportunities in IEB see <http://www.biology.ed.ac.uk/research/institutes/evolution/>. Enquiries should be made to potential supervisors; applications must be submitted via the potential supervisor, by late January 2007. For these three studentships, only then supervisors listed below are eligible. However, we also have unrestricted NERC and BBSRC studentships: applications for these should be made in the same way.

Nicholas Barton FRS Mark Blaxter Professor Brian Charlesworth FRS Deborah Charlesworth FRS Andrew Leigh-Brown Francis Jiggins Peter Keightley Sara Knott Tom Little Graham Stone David Shuker Josephine Pemberton Andrew Rambaut Andrew Hudson (Institute of Molecular Plant Sciences) Richard Carter (Institute of Immunology and Infection Research)

n.barton@ed.ac.uk n.barton@ed.ac.uk

UHawaii ConsBiol

NSF IGERT Opportunities at the University of Hawaii (UH): Integrating Ecology, Conservation, and Pathogen Biology (ECPB)

We are seeking exceptional doctoral students interested in integrative research and training in evolutionary ecology and biomedical sciences. The program's overarching theme, disease ecology, addresses the need to improve the understanding of emerging infectious diseases, how they originate and spread, their impact on humans, domesticated animals, and on natural ecosystems and biodiversity. Research themes integrate, for example, the ecological and evolutionary dynamics of host-pathogen relationships from phylogenetics to phylogenetics, the molecular and cellular processes involved in pathogenesis, and conservation biology including the role of anthropogenic environmental change on emerging/re-emerging infectious diseases and invasive species. The ECPB has an interdisciplinary curriculum that includes applied evolutionary ecology, conservation biology, medical geography, and tropical medicine, taking advantage of Hawaii's tropical forest and coral ecosystems as outdoor classroom and laboratory and collaborations with UH's East-West Center. ECPB's mission is to facilitate the training of a new cadre of scientists particularly skilled in working across disciplines to meet the increasing challenges of emerging infectious diseases and wide-spread species invasions in an age of rampant globalization and environmental degradation.

ECPB Fellows will be selected from qualified Ph.D. students who have been accepted into participating doctoral programs at UH consistent with the goals of ECPB, with at least two faculty mentors whose disciplinary expertise bridge ecology (including evolutionary ecology), conservation, and/or pathogen biology. The fellowship includes a stipend (\$30,000/yr) and tuition for two years. U.S. citizenship or permanent residency is required. Selection will be based on student qualifications, relevance of research interests, and balance among participating programs and faculty. We especially encourage applications from members of under-represented minority groups.

Applications for Fall 2007 should be preceded by a short letter (1 page or less) describing which of the ECPB research themes (<http://jabsom.hawaii.edu/igert/>) pro-

vide the best fit for your research interests, along with your CV. Please submit by December 15, 2006 if possible, to ecpb@hawaii.edu. Full applications for Fall 2007 should include a cover letter identifying department affiliation and mentors, a 1000-word essay describing your research plans, and an updated CV. Applications are due Jan 31, 2007. Send to: ECPB Fellows, Department of Tropical Medicine, Medical Microbiology and Pharmacology, 651 Ilalo Street, BSB 320, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813, or, ecpb@hawaii.edu For additional information, please visit the ECPB website at <http://jabsom.hawaii.edu/igert/> . -

Shannon N. Bennett, Ph.D. Assistant Professor, Asia-Pacific Institute of Tropical Medicine and Infectious Diseases Dept. of Tropical Medicine, Medical Microbiology and Pharmacology J. A. Burns School of Medicine, University of Hawaii 651 Ilalo St., BSB 320D Honolulu, HI 96813

Phone: (808) 692-1603 Fax: (808) 692-1979 email: sbennett@hawaii.edu

Shannon Bennett <sbennett@hawaii.edu>

UHouston EvolBiol

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) is recruiting graduate students for its graduate program in Evolutionary Biology and Ecology for Fall 2007. The following faculty in the area of Evolutionary Biology and Ecology are seeking graduate students for their labs:

Blaine Cole (bcole@uh.edu) - Evolution and Social Behavior Dan Graur (dgraur@uh.edu) - Theoretical Molecular Evolution Diane Wiernasz (dwiernasz@uh.edu) - Ecological Genetics George Fox (fox@uh.edu) - Experimental Evolution and Origin of Life Rebecca Zufall (rzu-fall@uh.edu) - Genome and Molecular Evolution Ricardo Azevedo (razevedo@uh.edu) - Evolution of Development and Complexity Steve Pennings (spennings@uh.edu) - Community Ecology Yuri Fofanov (yfofanov@bioinfo.uh.edu) - Evolutionary Bioinformatics

For more information regarding the Evolutionary Biology and Ecology graduate program at UH see:

http://www.bchs.uh.edu/grad_intro.htm The deadline for application of prospective students is April 1st, 2006.

Ricardo Azevedo <razevedo@uh.edu>

about the application process, please visit our admissions website (http://www.uic.edu/depts/bios/grad/graduate_application.shtml).

bi24@cornell.edu bi24@cornell.edu

UillinoisChicago PlantEvol

Graduate Student Positions in Plant Evolutionary Biology at the University of Illinois-Chicago (UIC)

We are looking for qualified applicants to join our Ph.D. program in Ecology and Evolution (Department of Biological Sciences) at UIC. Students interested in phylogenetic methods, plant mating system evolution, systematics, population genetics, conservation, molecular evolution, biogeography, and related areas are strongly encouraged to apply. We suggest that students send a brief description of their academic background and interests to faculty members with matching interests. These may include:

Mary Ashley, UIC *(<http://www.uic.edu/depts/bios/faculty/ashleym/ashleym.shtml>)

Boris Igic, UIC *(<http://www.uic.edu/labs/igic/gradinfo.html>)

Roberta Mason-Gamer, UIC *(http://www.uic.edu/depts/bios/faculty/mason_gamer/mason_gamerr.shtml)

Kayri Havens, Chicago Botanic Garden *(<http://www.chicagobotanic.org/research/conservation/havens.html>)

Richard Ree, Field Museum of Natural History *(http://fm1.fieldmuseum.org/aa/staff_page.cgi?staff=rree)

The UIC campus, located in downtown Chicago, features superb facilities and a remarkably diverse student population. In addition, our department (<http://www.uic.edu/depts/bios/facresearch.shtml>) has a strong research group in ecology and conservation, a recently-established IGERT program (Landscape, Ecological, and Anthropogenic Processes), and benefits from close links with biologists at the Field Museum of Natural History and the Chicago Botanic Gardens.

Admitted students receive a support package that includes a tuition waiver and a graduate stipend (\$21,650 for 2006/7). We welcome strong applicants from any country. The recommended deadline is January 1st. For more information

Leipzig, 16th December 2006

THREE PHD POSITIONS IN BIOSTATISTICS / BIOMATHEMATICS / COMPUTATIONAL BIOLOGY

Three doctoral positions are available in the group of Korbinian Strimmer at IMISE, University of Leipzig.

Central themes of our research are dynamic models of cell biology and data analysis of biological systems via information theory and multivariate statistics. Special focus lies on high-dimensional inference, shrinkage and regularization, and modeling causal relations.

Please visit <http://strimmerlab.org> for an overview over current research projects and for information about previous doctoral theses written in the group.

A background in statistics, physics, mathematics, machine learning, or signal processing (or in a similar quantitative field) is essential. The candidates should have an interest both in methodological development as well as in the application and analysis of experimental biomedical data.

Please send PDF copies of CV and the M.Sc. or diploma thesis (or equivalent publications), as well as names of two references, *by email* to:

Korbinian Strimmer Institute for Medical Informatics, Statistics and Epidemiology (IMISE) University of Leipzig

korbinian.strimmer@lmu.de

Please note that all positions require an EU work permit. Payment is according to BAT IIa/2 (or equivalent TVL scale). Starting dates are negotiable, from February 2007.

Interested postdoctoral researchers may also apply (please submit copies of papers and a brief statement of research plans).

Additional information about Leipzig and its university:

Leipzig is a city of >500K inhabitants that has many

cultural offerings (theater, opera, classical and popular music, art), thanks to its tradition and heritage as a town of music (Bach) and books. It boasts a very lively student scene, and has only a very moderate cost of living. In 2006 Leipzig was even named the most “lebenswerteste Stadt” in Germany! Fast railway access ensures that the capital Berlin is only an hour away, while the Halle-Leipzig airport provides many direct (and cheap) connections to destinations across Europe.

The University of Leipzig is among the oldest universities in Germany, celebrating its 600th birthday in 2009. Korbinian Strimmer’s group “Statistics and Computational Biology” is now (moving from LMU Munich) part of the Institute for Medical Informatics, Statistics and Epidemiology (IMISE), Leipzig, that has close links to the Interdisciplinary Center of Bioinformatics (IZBI) - both of which are hosts to several further biomathematics and bioinformatics groups. In addition, in Leipzig there are several Max-Planck Institutes with related research interests (i.e. both methodological and biological).

<http://leipziginfo.de> <http://www.uni-leipzig.de> <http://www.imise.uni-leipzig.de> <http://www.izbi.uni-leipzig.de>
 korbinian.strimmer@lmu.de ko-
 rbinian.strimmer@lmu.de

ULouisville DiseaseEvol

GRADUATE OPPORTUNITIES IN DISEASE EVOLUTION

The Program in Disease Evolution within the Department of Biology at University of Louisville is recruiting doctoral students. This program brings an evolutionary perspective to the study of health and disease. Its mission is to integrate the mechanistic approaches that have dominated studies of disease for most of the past century with evolutionary explanations for the existence of disease.

The Program on Disease Evolution includes L. Dugatkin, D. Dykhuizen, A. Kalia, M. Klotz, M. Perlin, and S. Remold. For more information regarding the Program please visit our web site: (<http://louisville.edu/a-s/biology/DiseaseEvolution/index.htm>). For information about the Biology department: (<http://louisville.edu/a-s/biology/>)

susanna.remold@louisville.edu

UMassachusetts PlantEvolGenomics

I am seeking a highly motivated Ph.D. student to participate in our research in the area of plant evolutionary genomics. This NSF-funded project focuses on how introgression and natural selection have shaped the emergence of red rice in the U.S. Red rice is a weedy form of cultivated rice that competes aggressively with the crop and has become a major pest in the U.S. in the last 150 years. Students applying to the position should have broad interests in plant evolution, population genetics, and molecular biology. Development of independent research related to the project will be encouraged. Interested students should apply to the Plant Biology Graduate Program at the University of Massachusetts Amherst. The deadline for application is January 7, 2007 and information about applying can be found at: <http://www.bio.umass.edu/plantbio/pbadmissions.htm>. The Plant Biology Graduate Program at UMass provides graduate training and fosters faculty research and collaboration in all aspects of the biology of plants. Founded in 1996, PB now includes over 37 faculty. PB sponsors a seminar series, journal clubs, a fall symposium, a spring colloquium, and scholarship and fellowship programs for graduate and undergraduate students. Facilities for research include a large growth chamber facility, an automated DNA sequencing lab, scanning and transmission electron microscopes in a central microscopy facility, greenhouses, university-owned field sites, an outstanding living collection of plants, and the herbarium of record for New England. The graduate requirements of the program encourage graduate students to complete a broad grounding in plant biology and gain experience in teaching before they specialize on their thesis research. PB is part of a vibrant university community in very pleasant surroundings. The University of Massachusetts at Amherst, the largest university in the Northeast, has a commensurate diversity of academics, arts, and opinions. The rich intellectual and cultural environment is further enhanced by the four area colleges - Amherst, Hampshire, Mount Holyoke, and Smith.

Ana Caicedo Biology Department University of Massachusetts caicedo@bio.umass.edu

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Ana L. Caicedo, Ph.D. Assistant Professor Biology Department phone: (413) 545-0975 University of Mas-

sachusetts fax: (413) 545-3243 Amherst, MA 01003
 email: caicedo@bio.umass.edu

caicedo@bio.umass.edu caicedo@bio.umass.edu

UNottingham EvolBiol

UNevadaReno Computational

I (Guy Hoelzer) am looking to recruit a PhD student to begin in the Fall, 2007, who would work with me on developing and analyzing spatially explicit models of ecology and evolution. I am particularly interested in exploring the general ways in which isolation by distance can influence evolutionary dynamics and lead to endogenous mechanisms of spatial pattern formation, including speciation. My colleagues and I have a good start on developing this program, which is already yielding very interesting results, and I hope to expand the scope of the model to include ecological interactions and more realistically heterogeneous landscapes. I think this computational framework will facilitate asking a great number of interesting questions, so the student filling this role will be encouraged to fully participate in decisions regarding the direction his/her specific dissertation will take. I prefer to think of my role as the guiding of a collaboration, rather than as an employer who imposes a research project on my students. The nature of this research will require familiarity with object oriented programming languages (e.g., Java, MatLab, C++) and skill in code writing.

The student will initially be funded with a teaching assistantship and will contribute to the writing of a grant proposal aimed at funding the computational infrastructure to support model analyses and a research assistantship, which will allow the student to devote more time to the project.

Prospective students should provide me with information on their academic credentials and a description of their experience in writing computer programs by contacting me at <hoelzer@unr.edu>. They should also explore what our graduate program in Ecology, Evolution, and Conservation Biology (EECB) at the University of Nevada Reno has to offer by going to the program's website at <<http://www.eecb.unr.edu/>>. This website includes all the information needed to complete an application.

Guy Hoelzer Department of Biology University of Nevada Reno Reno, NV 89557

hoelzer@unr.edu hoelzer@unr.edu

University of Nottingham School of Biology Masters by Research in Evolutionary Biology Course Description
 The MRes in Evolutionary Biology involves the study of adaptation of organisms to their environment, at the whole organism and molecular scales. Studies available include the evolutionary and behavioural ecology of insects, fish, mammals and other species, genetic variation in wild populations of fungi, ecological genetics, and the interface between evolution and development. In addition, a number of researchers are interested in estimation of the deep phylogeny of major groups of organisms, such as pulmonate molluscs and bacteria.

APPLICATION PROCEDURES After identifying which Masters you wish to pursue please complete an on-line application form <https://pgapps.nottingham.ac.uk/> Mark clearly on this form your choice of course title, give a brief outline of your proposed research and follow the automated prompts to provide documentation. Once the School has your application and accompanying documents (eg referees reports, transcripts/certificates) your application will be matched to an appropriate academic supervisor and considered for an offer of admission.

COURSE STRUCTURE The MRes degree course consists of two elements: 160 credits of assessed work. The assessed work will normally be based entirely on a research project and will be the equivalent of around 10 $\frac{1}{2}$ months research work. AND 20 credits of non-assessed generic training. Credits can be accumulated from any of the courses offered by the Graduate School. <http://www.nottingham.ac.uk/gradschool/research-training/index.phtml> The generic courses should be chosen by the student in consultation with the supervisor(s).

ASSESSMENT The research project will normally be assessed by a dissertation of a maximum of 30,000 to 35,000 words, or equivalent as appropriate*. The examiners may if they so wish require the student to attend a viva. *In consultation with the supervisor it may be possible for students to elect to do a shorter research project and take a maximum of 40 credits of assessed modules.

SCHOLARSHIPS FOR INTERNATIONAL STUDENTS The University of Nottingham is delighted to offer 10 x £1,000 tuition fee scholarships for students

starting full-time study on one of the Masters by Research (MRes) programmes in the School of Biology at the University in September 2007. Applicants must be classified as 'overseas' students for fees purposes and be applying to study full time. All eligible students who have offers of admission before 22 May 2007 will automatically be considered for the Scholarships. The scholarship winners will be notified in June 2007.

Start Month(s) September Duration 1 Year Research Entry Requirements At least Second Class Degree in appropriate subject Course Fees See School web pages WWW <http://www.nottingham.ac.uk/biology/courses/taught-msc/index.phtml> Course Contact Name Kathryn Lyon Kathryn.Lyon@nottingham.ac.uk – School of Biology University of Nottingham University Park Nottingham NG7 2RD Tel: 0115 951 3410 Fax: 0115 951 3251

This message has been checked for viruses but the contents of an attachment may still contain software viruses, which could damage your computer system: you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

UOregon EvoGenetics

Applications are now being accepted for integrative graduate education in Evolution, Development and Genomics at the University of Oregon (UO).

We are seeking highly motivated students to join a core group of interactive laboratories studying evolutionary patterns and processes of molecular, cellular and developmental systems. Contributing labs are part of UO's recently formed Center for Ecology and Evolutionary Biology (CEEB), Institutes of Neuroscience (ION) and Molecular Biology (IMB), and the Oregon Institute of Marine Biology (OIMB). Since its founding in 2002, CEEB has opened several new labs with particular emphasis on complex genetics, experimental evolution, molecular phylogenetics, and the genetic analysis of natural populations (see list below of contributing labs and research interests). In addition, our evolutionary research is well integrated with UO labs studying ecological processes at a variety of biological levels (visit <http://biology.uoregon.edu/lifesci/> for more details).

Our contributing labs have vigorous and well funded individual research programs, and are also part of a highly productive NSF IGERT training grant in Evolution,

Development and Genomics shared jointly between UO and Indiana University (<http://evodevo.uoregon.edu/>). Our IGERT supports graduate education through weekly seminars, journal clubs and reading groups, a yearly symposium, and through six graduate fellowships that provide a significant stipend as well as research funds.

The University of Oregon is located in the heart of Eugene, a progressive and very livable city of approximately 200,000 people. Eugene provides many opportunities for intellectual stimulation, and its location is ideal for the naturalist at heart, being within an easy 1-2 hour drive of both the Cascade Mountains and the Pacific Ocean.

Students who have a strong interest in interdisciplinary research at the forefront of evolutionary genetics are encouraged to apply by going to the following website:

<http://biology.uoregon.edu/graduate/apply.php> Note that our target date for applications is December 15th, 2006

List of representative labs (for details see <http://biology.uoregon.edu/people/people.php>)

Brendan Bohannon - Testing ecological and evolutionary theory using microbial model systems. Applying ecological and evolutionary theory to microbes in nature.

Bill Bradshaw and Chris Holzapfel - Population biology, evolutionary genetics, community interactions of insects

John Conery - Computer & information science approaches to evolutionary genetic problems

Bill Cresko - Developmental genetics of evolving traits; gene and genome duplication, evolutionary genetics, and speciation

Judith Eisen - Specification and patterning of neurons and neural crest cells in embryonic zebrafish

Karen Guillemin - Bacterial host interactions in disease and in normal development.

Eric Johnson - Genetic and genomic analysis of how an organism adapts to the physiological challenges of daily life.

Charles Kimmel - Segmentation of the vertebrate head and nervous system. Patterning the head skeleton in development and evolution

Patrick Phillips - Empirical and theoretical studies of evolutionary genetics, ecology and behavior

John Postlethwait - Genetic regulation of animal development, the origin of novel morphologies in evolution

and the evolution of the vertebrate genome.

Barbara (Bitty) Roy. - Influence of abiotic factors, such as climate change and fire, on plant pests; Evolution of resistance and tolerance to disease

Joe Thornton - Phylogenomics; evolution of gene families, focusing on nuclear receptor genes

Michelle Wood - Microbial ecology and evolution; biological oceanography

+ William A. Cresko Assistant Professor of Biology University of Oregon Eugene, Oregon

wcresko@uoregon.edu wcresko@uoregon.edu

UOslo EvolPeptideSynthetases

POSITION AS DOCTORAL RESEARCH FELLOW (PhD stipendiat) in biology (microbial genomics) is available at The Centre for Ecological and Evolutionary Synthesis (CEES), Dept. of Biology, Faculty of Mathematics and Natural Sciences, University of Oslo, Norway.

The position is under the Faculty of Mathematics and Natural Sciences at the University of Oslo and is attached to the Department of Biology. The position is available for a period of four years. 25% of the working time is allocated to duties besides research and project work and typically includes lecturing and supervision of master students.

The position is affiliated to the EMBIO-financed project "A Phylogenomic approach for understanding the distribution, evolution and function of peptide synthetases". Main activities within the project are genomic and bioinformatics studies of peptide synthetases and related genes (polyketide synthetases) in organisms such as cyanobacteria, fungi and protists. Another major approach will be modelling of peptide synthetases in order to relate structural properties to amino acid changes in different synthetases, and to put such results into a functional and evolutionary framework. The goal of the project is to contribute to our understanding of the biological function(s) and evolution of non-ribosomal peptides in particular and secondary metabolites in general.

The candidate should have a master in biology, molecular biology, biochemistry or other relevant fields. Experience with one of the following fields - molecular biology, genomics, phylogeny or bioinformatics - is a

requirement. It will be an advantage to have experience in evolutionary biology, protein structure, or having experimental training in working with cyanobacteria and /or protists, algae or fungi - but this is not a requirement. The successful candidate will work together with a multidisciplinary team at the Centre for Ecological and Evolutionary Synthesis (CEES) <http://bio.uio.no/cees>).

Applications should include a statement summarizing the applicant's scientific work and interest, curriculum vitae and three sets of copies of certificates and copies of co-authored publications.

The purpose of the fellowship is research training leading to the successful completion of a PhD degree. The fellowship requires admission to the research training programme at the Faculty of Mathematics and Natural Sciences. The applicants must have obtained undergraduate (Cand.mag., i.e. B.Sc. level) and postgraduate (cand.scient. or Siv.ing., i.e. M.Sc. level) degrees. This represents approximately five years of full time studies after completion of European Upper Secondary School/International Baccalaureate. For more information see: http://www.matnat.uio.no/english/research/research_edu/education.html.

Appointment to a research fellowship is conditional upon admission to the Faculty's research training programme. An approved plan for the research training must be submitted no later than one month after taking up the position, and the admission approved within three months.

See the following URL for further details and guidelines for appointment to research fellowships at the University of Oslo: <http://www.uio.no/admhb/reglhb/personal/tilsettingvitenskapelig/guidelinesresearchfellowship.xml>

The University of Oslo (UiO) wishes to achieve a more equal distribution of scientific employees between the sexes. Female applicants are encouraged to apply.

UiO has an agreement for all employers, aiming to secure rights to research results a.o.

For further information please contact: professor Kjetill S. Jakobsen, phone +47 22 85 46 02 e-mail: k.s.jakobsen@bio.uio.no

Pay grade: 41 - 46 (NOK 310 500,- - 338 300,-) (depending on qualifications)

The position is available for a period of four years. Compulsory service shall represent 25% of the total hours of work.

Deadline for application: January, 8., 2007

REF. NR.: 06/12636

Application (including statement about relevance of qualifications), CV (marked Ref. No. 12636), copy of certificates and scientific papers should be sent (in 3 sets) to: Faculty of Mathematics and Natural Sciences, attn. Senior Executive Officer Bente Schjoldager, P. O. Box 1032 Blindern, N-0315 Oslo, Norway

Application papers will not be returned with exception of original publications.

kamran@bio.uio.no

USouthCarolina MolEvol

I am seeking a graduate student who is interested in studying molecular evolution in a computer-based lab. Areas of study include the origin of new genes, the mechanisms of gene duplication, and the application of molecular evolutionary methods.

A research assistantship is available for the first year and as funding permits. Otherwise, a teaching assistantship is available. Both provide a competitive stipend.

Please apply by e-mail or postal mail and include a CV, brief statement of research interest, and contact information for two references.

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

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

UTulsa Salamanders

I am starting a salamander eco-evo-devo lab next Fall at The University of Tulsa. I have three years of research assistantship funding for a graduate student (Ph.D. or Master's) also beginning next Fall. The general theme of the research will be to use integrative approaches to study the evolution of developmental patterns, growth, and reproduction in salamanders, from higher-levels (among families) to within natural populations. The research will primarily entail sequencing DNA and RNA, gene expression analyses, a variety of endocrinology/developmental biology techniques, and experiments with salamanders in the lab and field. Students will be welcome, but not required, to further develop some aspects of this research into their thesis or dissertation project. Prior experience in any of the areas mentioned above would be helpful, but having high motivation and broad interests in biology are the most valuable qualifications to start. Prospective students interested in joining the lab (especially through this research assistantship) should contact me for more information at: rbonett@UMich.edu The University of Tulsa also offers other graduate student funding opportunities through fellowships and teaching assistantships. Applications for Fall 2007 are due in early February. Thanks for your interest! Ron Bonett Currently: Postdoctoral Fellow Department of Molecular, Cellular, and Developmental Biology University of Michigan Ann Arbor, MI 48109-1048 Phone: 734 972-5016

rbonett@UMich.edu

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CNRS France
HumanEvolPaleogenetics

Dear colleague,

The Centre National de la Recherche Scientifique (CNRS) opens a Tenure position of Associate scientist: Human paleogenetics and environment See more information at : http://gestionoffres.dsi.cnrs.fr/fo/offres/-detail-en.php?&offre_id2 Competition n°46/02 : Detailed description: Interdisciplinary committee n°46 : Environmental risks and society Competitive entry N°46/02 - 1 Associate scientist 1st class. Human paleogenetic and environment

Job description Research interest in the field of the evolution of genomes of the mammalian communities of the Holocene - Pliocene

The general framework is expected to be the development of new methodologies for the analysis of ancient genomes via the elucidation of the transformation processes of DNA during fossilisation using biological and physico-chemical approaches.

Assignment Candidates may list one or two laboratories to which they prefer to be assigned: see directory of CNRS laboratories (<http://web-ast.dsi.cnrs.fr/l3c/-owa/annuaire.recherche/index.html>)

Sincerely Jean-Denis VIGNE

Jean-Denis Vigne <vigne@mnhn.fr>

CaliforniaStatePolyU
MarineEvolBiol

FACULTY POSITION MARINE EVOLUTIONARY BIOLOGIST

The Biological Sciences Department at California State Polytechnic University, Pomona invites applications for a tenure-track, ASSISTANT PROFESSOR position in evolutionary biology, beginning September 2007. A Ph.D. in Biology or a related field is required and post-doctoral experience is preferred. The candidate will teach a senior level course in evolution, a general education course in marine biology that includes a field-based lab, and is expected to teach upper division and/or graduate level courses related to his or her area of expertise. Participation in team-teaching of introductory courses may be expected in the future. We seek applicants who study the evolution of marine organisms with a combination of modern field and molecular approaches. Candidates must be strongly committed to teaching, mentoring of undergraduate and graduate (MS) students, and developing an externally funded research program. Cal Poly Pomona is a comprehensive Master's level university with a diverse student body. The successful candidate will have demonstrated ability to be responsive to the educational equity goals of the university and its increasing ethnic diversity and international character. Applicants should mail (1) curriculum vitae, (2) statement of teaching philosophy, (3) proposed plan of research, (4) reprints of three repre-

sentative publications, and (5) the names and contact information of three references to: Chair, Marine Evolutionary Biologist Search Committee, Biological Sciences Department, California State Polytechnic University, 3801 West Temple Avenue, Pomona, CA 91768-4132. Review of applications will begin on January 29, 2007. Official transcripts and three letters of reference will be required of all finalists. For further information, visit the Department web site at: <http://www.csupomona.edu/~biology>. Contact person: Dr. Chris George (cgeorge@csupomona.edu) or Dr. Joan Leong (jomleong@csupomona.edu)

California State Polytechnic University, Pomona is an Equal Opportunity, Affirmative Action Employer. Cal Poly Pomona conforms to all state and federal regulations and prohibits discrimination based on gender, race, sexual orientation, national origin, disability, marital status, age, religion, or veteran status. The university hires only individuals lawfully authorized to work in the United States. As required by the Clery Disclosure Act, the university's annual security report is available at <http://www.csupomona.edu/~public.safety>. A. Kristopher Lappin, Ph.D. Assistant Professor Biological Sciences Department California State Polytechnic University 3801 West Temple Avenue Pomona, CA 91768 E-mail: aklappin@csupomona.edu Phone: 909-869-2355 FAX: 909-869-4078

aklappin@csupomona.edu

ColoradoStateU LabTech

The following position is available at the Biology Department, Colorado State University, Fort Collins

A temporary Laboratory Research Technician position is available in the Department of Biology, Colorado State University, Fort Collins. This is a 6 month summer position (April through September), renewable every year for the next several years. The beginning and end dates every year are flexible within upto 15 days).

Responsibilities and Requirements: 1) Perform duties related to management of bee colonies in the field and laboratory 2) Perform behavioral and physiological experiments in the field and laboratory 3) Operate four wheel drive vehicle and travel to field sites, work long hours, sometime during late evenings, early mornings, and weekends 4) Maintain equipment and facilities related to lab and field work 5) Collect and enter data and ensure high integrity of the collected data according to

specifications set by the principal investigator 6) Train and supervise incoming students to field and lab duties 7) Order materials and supplies 8) Any other duty as required from time to time related to the lab and field work

Qualifications: Coursework or B.S. (B.S. preferred) in Biology, Ecology, or any other related field Experience working with insects, especially honeybees or other hymenopterans Experience doing field and lab work Valid US Drivers license Knowledge of Microsoft Excel and Word Independent, self-motivated, strong attention to detail and reliable

Salary: Commensurate with experience

To Apply: Please send a letter of application, resume, university transcripts and 2-3 letters of recommendation to:

Dhruba Naug Department of Biology Colorado State University Fort Collins, CO 80523

If you have any questions regarding this position, please contact Dhruba Naug (dhruba@lamar.colostate.edu)

arathi@lamar.colostate.edu

DukeU Speciation LabTech

An Associate in Research ("lab technician") position is available in the Duke University laboratory of Biology Department Associate Professor Mohamed Noor beginning February, 2007. Responsibilities: 50% Isolation and molecular analysis of DNA using PCR and other techniques; 20% Maintenance of fruit fly cultures and collection of unmated flies; 10% Supervision of undergraduates; 10% Data entry and analysis of results from molecular and phenotypic assessments; 10% Ordering and laboratory maintenance. Required qualifications: B.S. or B.A. degree in biology or related field, some experience with basic laboratory techniques. Additional qualifications desired: experience with molecular biology protocols, experience with handling of *Drosophila* fruit flies, experience with supervising others. Applications will be reviewed as they are received until candidate is selected. Please ONLY send an e-mail of intent (no attachments!) that indicates your experience and interest to: Dr. Mohamed Noor, NOOR@DUKE.EDU. Duke University is an Equal Opportunity/ Affirmative Action Employer.

Mohamed A. F. Noor noor@duke.edu Associate

Professor Tel: 919-613-8156 DCMB Group/ Biology
 Lab: 919-613-8193 Box 91000 FAX: 919-613-8177
 Duke University Durham, NC 27708 USA <http://www.biology.duke.edu/noorlab/>
 noor@duke.edu

Europe PlantGenomics ResAssist

Research assistant positions in Europe: plant ecological genomics

We are looking for field assistants to participate in a large-scale investigation of the evolution of flowering time in *Arabidopsis thaliana*. Our approach includes analysis of flowering time response to a wide range of natural and manipulated environments at levels ranging from DNA sequence variation to continental ecotype distributions. This NSF-funded Frontiers in Biological Research (FIBR) project – headed by Johanna Schmitt at Brown University – is a collaborative effort of four labs in the US as well as *Arabidopsis* laboratories at five research institutions in Europe. Part of this study entails establishing a set of five common gardens in Europe in Valencia, Spain; Oulu, Finland; Norwich, UK; Cologne, Germany; and Halle, Germany. At these sites large numbers of European *A. thaliana* accessions, mutants, and near isogenic lines are being grown in multiple plantings synchronized with local populations in order to assess geographic and seasonal variation in selection on flowering time and other life history traits.

We are seeking research assistants who would be interested in living at one of the five European field sites and traveling between sites to assist with plant care and measurement. Prior independent research experience (particularly with plants) is necessary, as research assistants may be largely independent for prolonged periods of time. We anticipate 3 types of positions:

1) Two or three “postbac” research fellowships. These positions provide the opportunity to design and conduct an independent research project with the host laboratories based on the shared interests of the applicant and the host lab. This research assistantship involves a strong training component and was conceived as being analogous to Fulbright fellowships. These positions are available starting in May 2007 for 12 months, with some possibility of extension. Applicants should have a bachelors degree in biology or a related science. This is an excellent opportunity for graduating seniors interested in a research career to obtain further experience

before applying to graduate school.

2) A 6 month research assistant position starting in March or early April 2007, with the possibility of extension for at least a year as a “postbac” research fellowship. This position will mostly be based in Finland through the summer. Applicants should have a bachelors degree in biology or a related science.

3) We may also have one or more summer research assistant positions for May-August 2007. Applicants for these positions should be recent baccalaureates or advanced undergraduates with research experience in plant biology, evolution, or ecology.

Further information about the project can be found at: <http://www.egad.ksu.edu/about.html> To apply, please send a resume and contact information of three references to Martha_Cooper@brown.edu

awilczek@gmail.com

INRA France EvolGenetics

<http://www.inra.fr/drh/cr2007/bdd/cr2/-listepardiscipline-cr2.php?choix> Fabienne Giroux

INRA DRH Service recrutement et mobilité 147, rue de l'Université 75338 PARIS cedex 07

Tel : 01-42-75-90-77 Fax : 01-42-75-90-39

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

IRD France AgroBiodiversity

IRD (www.ird.fr) recruits for 44 research positions. Please see at URL below for “profil de postes” file numbered 6, for a position oriented in evolutionary studies in agrobiodiversity.

Applications in english welcome.

Pour l'année 2007, l'IRD recrute 44 chercheurs

- Retrait des dossiers jusqu'au : 19 janvier 2007 - Date limite de dépôt des dossiers : 22 janvier 2007

Les dossiers sont également disponibles à l'adresse suivante : IRD Direction des Personnels Bureau du Recrutement 213 rue Lafayette - 75480 Paris Cedex

10 dp.concours@paris.ird.fr <http://www.ird.fr/fr/recrutement/concours2007/chercheurs/index.htm> – Gérard Second

UMR DGPC Centre IRD, BP 64501 911 Av Agropolis F-34394 Montpellier Cedex 5 France

Tel (direct): 0467416309 Fax (indiquer mon nom): 0467416222 Courriel: <gerard.second@mpl.ird.fr>

<http://www.dgpc.org> Gérard Second <gerard.second@mpl.ird.fr>

KansasStateU ArthropoGenomics DataAnalyst

RESEARCH ASSISTANT/DATA ANALYST: Kansas State University Arthropod Genomics Center, Manhattan, Kansas

The K-State Arthropod Genomics Center, in combination with the Bioinformatics Center at Kansas State University, seeks a Research Assistant/Data Analyst to provide bioinformatics support to insect genomic researchers in the analysis and interpretation of research data.

Responsibilities include using bioinformatics tools to assist scientists in analyzing and interpreting microarray data, analyzing and annotating genomic sequence data, and populating and curating databases. This position will also assist with expanding and maintaining the comprehensive genome dataset, BeetleBase. The data analyst will collaborate with scientists to develop new genomic resources and preliminary data to support extramurally-funded grant proposals. Information about the Centers and a complete position description may be found at www.K-State.edu/agc and www.K-State.edu/agc

An M.S. in Statistics, Bioinformatics, Computer Science, or related field and experience with sequence and/or microarray data analysis is required. Applicants must be available to work in the United States by March 15, 2007. Excellent oral and written communication skills in English, and ability to work both independently and in collaboration with other scientists and students are also required. Preferred qualifications include experience or the equivalent skills to handle problems in phylogenetics, genomics, gene and protein expression analysis, and data mining. Successful performance of similar responsibilities following at-

tainment of Master's degree is also preferred.

This full-time, 12-month, term position may be renewed up to 5 years contingent upon performance, need for services, and funding by the K-State Arthropod Genomics Center (AGC) through support from Targeted Excellence. To apply: Send CV, letter of application, description of research interests, and names and contact information of three professional references by e-mail to dmerrill@ksu.edu or by hard copy to:

Doris Merrill, Program Coordinator Division of Biology, 231 Ackert Hall Kansas State University Manhattan, KS 66506-4901

Review of applications will begin on January 20, 2007, and continue until the position is filled.

KSU is an equal opportunity employer and actively seeks diversity among its employees.

Doris Merrill, Program Coordinator K-State Arthropod Genomics Center Division of Biology, Kansas State University 116 Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, dmerrill@ksu.edu <<http://www.ksu.edu/agc>> www.ksu.edu/agc

dmerrill@ksu.edu dmerrill@ksu.edu

Max-PlanckInstPloen 2 EvolGenetics

MPI-Ploen: Populationgenetics and Bioinformatics

Two group leader and/or postdoctoral positions are available in the newly established section of "Evolutionary Genetics" (head: Diethard Tautz) at the Max-Planck Institut in Ploen in the field of:

Populationgenetics The individual should have a strong background in mathematical population genetics, ideally in the field of the population genetical theory of selection and adaptation.

Bioinformatics/Genomeanalysis The individual should have a strong background in genomic data mining and analysis, extensive programming skills and experience with database construction.

Salary will be according to experience, up to professorial level (W2). Experienced scientists can be hired to run an independent research program in one of the fields above, with a small teaching duty. Postdoctoral scientists are expected to join the main research program (see below). The positions are initially for two to five

years (depending on experience) and are extendable.

The Max-Planck Institut in Ploen has been a renowned location for limnological research, where the major current concepts of freshwater ecology were shaped. It is currently shifting its focus towards evolutionary biology with three major sections: evolutionary genetics, evolutionary ecology and evolutionary theory, plus independent research groups in related fields. The positions advertised here will be in the section evolutionary genetics, which will be fully established in September 2007, but an earlier recruitment is also possible. The main research program of this section is in the field of studying adaptive trait genes in wild mouse (*Mus musculus*) populations. The institute will have excellent facilities for keeping a diversity of strains, for doing highest level genomic and genetic analysis and experimental setups for studying adaptations under semi-natural conditions. The working language at the institute is english. Ploen is a small village in a beautiful post-glacially shaped landscape with all the amenities of a touristically active area. Two major cities (Kiel and Luebeck) as well as the Baltic Sea are only 30min away, Hamburg is about 90min away.

Applications are welcome at all levels of experience, ranging from exceptionally successful PhD students in their final year to already established group leaders or associate professors. Applications should include a CV and a publication list (including papers in press or close to submission), a statement of personal research interests, as well as three names for obtaining letters of reference. Applications should be sent by email with documents attached as pdf files to Diethard Tautz (tautz@uni-koeln.de). Please feel also free to contact me if you need more information.

Prof. Dr. Diethard Tautz Abteilung fuer Evolutionsgenetik Institut fuer Genetik Universitaet zu Koeln Zuelpicherstrasse 47 50674 Koeln - Germany Tel: ++49 221 470 2465 Fax: ++49 221 470 5975 E-mail: tautz@uni-koeln.de

Diethard Tautz <tautz@uni-koeln.de>

McMasterU HIVEvolGenet

Postdoctoral Fellowship in Evolutionary Genetics of HIV-1

We are looking for a postdoctoral fellow with experience in viral molecular biology/ evolutionary genetics

(a strong background in bioinformatics i.e. population genetics/ coalescent theory would be a bonus) to work on the origins and evolution of HIV-1. The chosen applicant would work on elucidating the genetic diversity of early HIV-1 genomes from archival collected tissue samples from around the world, representing some of the earliest known cases. The project will involve RNA/DNA isolation from frozen serum, paraffin embedded and formalin fixed tissue samples, rt-PCR amplification, cloning, library preparation and sequencing. These temporally discrete isolates will be used to reconstruct the tempo and mode of HIV-1 evolution and as well as for use in coalescent dating, to determine the origin and timing of the pandemic. The fellowships are open to candidates of any nationality and selection will be based upon the candidate's research potential. The fellowship can begin as early as January 2007, and the annual stipend is \$45,000 + benefits.

Applicants should provide three letters of recommendation and a CV to:

Hendrik Poinar Associate Professor Departments of Anthropology & Pathology and Molecular Medicine McMaster University 1280 Main St. West Hamilton, ON L8S 4L9 Canada email: poinarh@mcmaster.ca

Hendrik Poinar <poinarh@univmail.cis.mcmaster.ca>

MississippiStateU EvolBiol

The Department of Biological Sciences at Mississippi State University (www.msstate.edu/dept/biosciences) invites applications for Assistant Professor tenure-track positions that begin August 16, 2007. These faculty members will contribute to one of three focus areas: Ecology/Evolution, Cell Biology/Genetics, or Microbiology/Immunology. The scientific infrastructure at Mississippi State University includes focus areas in proteomics, genomics and digital biology, along with these supporting facilities: the Life Sciences & Biotechnology Institute (www.mafes.msstate.edu/biotech), the Electron Microscope Center (www.msstate.edu/dept/emc) and the GeoResources Institute (www.gri.msstate.edu). Successful candidates will develop externally funded research programs in any of the above-mentioned areas, direct graduate students and contribute to the teaching mission of the department. Minimum requirements include a Ph.D. in a related biological sciences field, but all-but-dissertation candidates will be considered. To apply, send CV, reprints of three representative publi-

cations, a concise statement of current and future research interests (1 page), and identify the position/area you are applying for plus relevant areas of teaching competence. Applicants should also arrange for at least three letters of reference to be submitted on their behalf. Screening will begin January 15, 2007 and will continue until the positions are filled. Send applications (hard copy) to Dr. Nancy Reichert, Interim Head, Department of Biological Sciences, P.O. Box GY, Mississippi State University, Mississippi State, MS 39762. (FacultySearch@biology.msstate.edu) Mississippi State University is An Affirmative Action/Equal Opportunity Employer

WDiehl@biology.msstate.edu
WDiehl@biology.msstate.edu

NESCent DurhamNC DatabaseDocumentation

<http://www.nescent.org/main/-employment.html#gmodhelpdesk>
Support Specialist

GMOD User

Job Description:

The National Evolutionary Synthesis Center (NESCent), in partnership with the Generic Model Organism Database project (GMOD, <http://www.gmod.org/>), seeks a technical support specialist to craft written documentation, provide user support, and give tutorials on GMOD software. The participants in the GMOD project are developing a software suite intended to serve as a complete system for a model organism database, and NESCent seeks to promote the adoption of GMOD software, particularly for evolutionary model organisms with emerging genomic data.

1. Create documentation for end-users:

Create new documentation for software, including user manuals, FAQs and tutorials. Documentation will include the interaction among various components of the GMOD software suite. A specific example might be a tutorial for loading data into Chado (the GMOD database schema), setting up Gbrowse (a web-based genome browser), and configuring Apollo (a genome editor) to read and write data to Chado. Another example is documentation describing the procedure for incorporating new data types into Chado. As part the software documentation effort, install and maintain GMOD software (particularly Chado, GBrowse, CMap, Turnkey

and Apollo, SynBrowse, Textpresso, Biomart).

2. Respond to user help requests:

Monitor mailing lists and web forums for support requests and either provide suitable answers or direct the question to an appropriate developer.

3. Communication and training:

Demonstrate software through tutorials and demonstrations.

4. Maintain website:

Update content on the GMOD community website.

Education/Training:

Degree in biology, computer science or related field. Outstanding technical writing skills. Excellent verbal and presentation skills. Team orientation with outstanding interpersonal and communication skills.

Required Qualifications:

Excellent technical writing, presentation and one-on-one communication skills. Experience with web programming and relational database management systems. Experience with BioPerl and GMOD. Experience with dynamic content-management systems (e.g, Drupal) is desirable. Freedom to travel extensively (up to 12 days/month).

How to Apply:

Please provide cover letter, resume, and contact information to Brian Osborne (bosborne@alum.mit.edu). Questions concerning this position should also be addressed to Brian Osborne.

Brian Osborne <bosborne11@verizon.net>

NorthDakotaStateU 2 PlantConservation

The Department of Biological Sciences at North Dakota State University invites applications for two tenure-track positions (Assistant or Associate Professor) in 1) Plant Conservation Biology and 2) Integrative Animal Physiology to begin August 2007. Significant interest in evolutionary aspects of plant conservation - physiology, respectively, is also preferred. Minimum requirements include a Ph.D. in biology or a related field, evidence of peer-reviewed publication, high potential to develop an externally funded, nationally competitive research program, demonstrated commitment

to teaching at the undergraduate and graduate level, and strong oral, written, and interpersonal communication skills. Candidates will develop an extramurally-funded research program, supervise M.S. and Ph.D. students, and teach courses in their area of expertise at the undergraduate and graduate levels. Candidates should be able to complement current department strengths, which include three focal areas of 1) ecology, evolution, and conservation biology, 2) regulatory and developmental biology, 3) science education. Postdoctoral experience, demonstrated ability in obtaining extramural funding, and teaching experience are preferred. Significant interest in evolutionary aspects of physiology/plant conservation is also preferred. We especially encourage applicants who will increase the participation of women and minorities in the sciences. See <http://biology.ndsu.nodak.edu> for additional information about the department and university. Review of applications will begin January 8, 2007 and continue until suitable applicants are selected. Please send a letter of application, curriculum vitae, statements of research and teaching interests, up to three representative reprints, and have three reference letters sent to: Dr. Gary K. Clambey (Integrative Animal Physiology; Gary.Clambey@ndsu.edu) or Dr. Craig A. Stockwell (Plant Conservation Biology; Craig.Stockwell@ndsu.edu), Department of Biological Sciences, North Dakota State University, Fargo, ND 58105-5517.

Craig A. Stockwell Associate Professor Department of Biological Sciences North Dakota State University Fargo, ND 58105

Phone: 701-231-8449 FAX: 701-231-7149
 e-mail: Craig.Stockwell@ndsu.edu Web
 site: <http://www.ndsu.edu/ndsu/stockwell/>
craig.stockwell@ndsu.edu

PennStateU MicrobialEcol 2

THE PENNSYLVANIA STATE UNIVERSITY

TENURE-TRACK ASSISTANT PROFESSOR, MICROBIAL ECOLOGY DEPARTMENT OF BIOLOGY

The Department of Biology at The Pennsylvania State University (www.bio.psu.edu) invites applications for a tenure-track Assistant Professor position in Microbial Ecology. We seek candidates who are developing independent research programs in any system within the

broad field of microbial ecology, to address ecology, evolution, and genetics of microbes. Academic excellence will be the primary criterion for evaluation. Joint appointments between colleges and/or departments across the university are possible. The successful candidate will develop an externally funded research program and contribute to teaching at the undergraduate and graduate levels. A parallel search for an Earth Systems Ecologist in the College of Earth and Mineral Sciences is part of a coordinated effort to strengthen ties between the life and earth sciences at PSU. Applicants should submit a letter of interest, curriculum vitae, statements of research and teaching interests, and have three letters of reference sent to Search Committee Chair, Microbial Ecology Search, Box G, Department of Biology, 208 Mueller Laboratory, University Park, PA 16802. Review of applications will begin on February 15, 2007 and will continue until the position has been filled. AA/EOE. Women and minorities are encouraged to apply. Penn State is committed to Affirmative Action, Equal Opportunity, and diversity of its workforce.

Jim Marden <jhm10@psu.edu>

RoyalMuseumCentralAfrica DNAbarcoding

The Royal Museum for Central Africa and the Royal Belgian Institute of Natural Sciences are looking for two scientific attaches in zoological sciences

In the context of an initiative of the Belgian Federal Science Policy, the RMCA and RBINS will launch a joint Centre of Excellence, called the Joint Experimental Molecular Unit. This project will run for 4 years starting from January 1st 2007.

This integrated research infrastructure will support scientific research and exploitation of natural history collections. It aims to develop research in the fields of DNA barcoding and archiving biological specimens. The unit is administratively managed by the RBINS, but the research activities will be carried out in laboratories both at the RBINS and the RMCA.

The RMCA and RBINS aim to recruit two young scientific attaches (Masters degree or equivalent) within the framework of this project

Their major tasks will be to: - conduct laboratory work (DNA extraction, PCR amplification, DNA sequencing, microsatellite analyses,) - experiment with new

protocols and analytical techniques - assist in statistical and phylogenetic analyses - assist in writing grants, and reports - curate the tissue collections - collect additional material in the field, if required They will work in collaboration with two postdoctoral researchers specifically employed by JEMU as well as other researchers from both institutions.

PROFILE: The candidates should preferably satisfy most of the following requirements: - Masters degree or equivalent in Biology, Agricultural or Bio engineering, or Biomedical sciences - experience with PCR, DNA sequencing and microsatellite analyses - acquaintance with statistical data treatment, including sequence alignment, phylogeny inference and population genetics - must be able to work independently though in strong collaboration with the fellow researchers - interest or experience in taxonomy will be considered an advantage

HOW TO APPLY: Candidates should send their application with curriculum vitae to:

C. PISANI, General director Royal Belgian Institute of Natural Sciences Vautierstraat 31 B-1000 Brussels Belgium

With reference: Vacature JEMU_Assist or: By Email: jobs@naturalsciences.be with reference: Vacature JEMU_Assist

Deadline for submission: January 10th 2007

Further information can be obtained from:

Marc De Meyer Royal Museum for Central Africa Leuvensesteenweg 13 B-3080 Tervuren, Belgium Tel: +32 (0)2 769 53 60 demeyer@africamuseum.be

Thierry Backeljau Royal Belgian Institute of Natural Sciences Vautierstraat 29 B-1000 Brussels, Belgium Tel: +32 (0)2 627 43 39 thierry.backeljau@naturalsciences.be

Erik Verheyen <Erik.Verheyen@naturalsciences.be>

genomic approaches to biogeochemical cycling. Appropriate candidates might state a potential affiliation with the Department of Ecology and Evolution in their application letter.

Stony Brook University invites applications for six new tenure-track positions associated with its new Consortium for Inter-Disciplinary Environmental Research (CIDER), designed to bring together faculty from the natural sciences, medical sciences, engineering, social sciences and humanities (see give web page link here). Individuals with demonstrated expertise in any of the following areas are encouraged to apply: (a) environmental health, including investigations of contaminants in air, food and water, mechanistic studies of their toxic effects on mammals, and their societal impact on different subpopulations; (b) the causes and influence of global climate change, including effects on biogeochemical cycles, patterns of disease, and human living conditions; and (c) environmental remediation, land use planning, and conservation. Successful applicants will hold a tenure track or tenured appointment in an academic department that best suits their expertise; affiliation with nearby Brookhaven National Laboratory is also possible. Applications from individuals or from teams that address any of these research areas are welcome. Faculty will be expected to teach at the undergraduate and/or graduate level, generate external funding to support their research, and participate in interdisciplinary activities to support CIDERs mission. Positions generally will be filled at the Assistant Professor level, however applications from exceptional established individuals also will be considered. Applications will begin to be reviewed on 1 February, 2007 and positions will remain open until filled.

For more information, see CIDER website

<http://sunysb.edu/CIDER> – Jeffrey Levinton Ecology and Evolution Department Stony Brook University Stony Brook NY 11794-5245

Voice (631) 632 8602 Fax (631) 632 7626

levinton@life.bio.sunysb.edu

SUNY StonyBrook6 EvoEnvironmentalBiol

6 Stony Brook Environmental Initiative Positions

This initiative will greatly expand environmental science at Stony Brook over the next few years. Evolutionary approaches would fit well into our emphases on global change as it relates to disease, conservation, and

SanDiegoZoo DNABarcoding

DNA barcoding and the bushmeat crisis - postdoctoral fellowship

The Zoological Society of San Diego's Conservation and Research for Endangered Species (CRES) program is

seeking a Postdoctoral Fellow to help guide and contribute to international collaborative projects utilizing DNA barcoding in efforts to address the bushmeat crisis. Illegal commercial hunting for the bushmeat trade is judged to be the most significant threat to the survival of great apes in Africa. Many species of hoofed mammals are also severely impacted by the bushmeat crisis. DNA Barcode data could be very valuable if used for preliminary identification and provide a means for identifying bushmeat products and monitoring bushmeat commerce. The Zoological Society of San Diego's Frozen Zoo is a unique repository of referenced specimens that is being utilized to help establish a reference database of DNA barcoding data. The successful applicant will work with the Genetics Division at CRES (http://cres.sandiegozoo.org/staff/div_genetics.html). We seek a candidate skilled in techniques of molecular genetic analysis including data generation and utilization of methods of genome bioinformatics who is interested in and capable of forming productive relationships with in-country scientists and conservation partners. Experience studying African mammals, establishing productive scientific collaborations and developing conservation education programs involving diverse audiences is desirable. Position to be filled in January, 2007.

Please submit a letter of interest, the names of three references, and a c.v. to San Diego Zoo's Wild Animal Park, Attn: HR #971901, 15500 San Pasqual Valley Road Escondido, CA 92027-7017 Fax: (760) 796-5614 Job Line Information: (760) 738-5006. EOE www.sandiegozoo.org/employment oryder@ucsd.edu

Seoul EvolBiol

Job: The Department of Life Sciences of Ewha Womans University (Seoul, South Korea) is seeking applications for a non-tenure-track faculty position. Ewha Womans University is a top-tier University in Korea and is one of the largest womens Universities in the world. Currently the department has two experimental groups in Division of Molecular & Cellular Biology and also Division of Ecology & Conservation Biology. For detailed information, please visit the web site <http://www.ewha.ac.kr/eng/main.html> or <http://~biology.ewha.ac.kr> (in Korean). The rank of the position can be either assistant or associate professor depending on the career of candidates. The appointment starts

from March, 1, 2007 and the initial appointment will be for one year with a possibility of renewal up to two additional years. The non-tenure-track faculty member will be expected to teach three graduate or undergraduate courses in English each semester. Opportunities for research collaboration with other faculty members within the department are open. The annual salary is approximately 40,000 US\$ or higher and some incentives are available depending on the research performance during the employment. Qualifications: Candidates should have achieved Ph.D. in Life Sciences with at least one year of post-doctoral or equivalent research experience. The successful candidate will have competence in teaching in English with proficiency at the level of native speakers and outstanding research potential. Application Procedure: Applicants are requested to submit following documents: 1) a cover letter describing teaching and research interests, 2) curriculum vitae with the full list of publications, and 3) two letters of recommendation.

The application documents should be sent to Prof. Jun-Im Song (jisong@ewha.ac.kr) or to one of the faculty members via E-mail by Dec. 21, 2006. Some applicants will be asked to give a sample lecture at the University sometime near the end of the year or early next year. Those selected for the final stage will be invited for interviews. Further information can be obtained from:

Jun-Im Song, Professor Dept. of Life Sciences, Ewha Womans University 11-1 Daehyon-Dong, Sodaemun-Ku Seoul, 120-750 Korea Tel 82-2-3277-2364; Fax 82-2-3277-2385 Email: jisong@ewha.ac.kr

Yong-Jin Won, Assistant Professor Dept. of Life Sciences, Ewha Womans University Science B Building (rm 554) 11-1 Daehyon-Dong, Sodaemun-Ku Seoul, 120-750 Korea Tel 82-2-3277-4471; Fax 82-2-3277-2385 Email: won@ewha.ac.kr

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SwarthmoreCollege EvolBiol

The Department of Biology at Swarthmore College invites applications for two different 1-year faculty leave replacement positions at the assistant professor level, each beginning September 2007. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. All application materials should be received by January 10, 2007.

EVOLUTIONARY BIOLOGY: Teaching responsibili-

ties include a broadly based, intermediate-level course in evolution with weekly laboratories, an advanced seminar with laboratory in some area within evolutionary biology, and participation in the Department's team-taught introductory course in organismal and population biology. Applicants should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: Dr. Colin Purrington, Evolutionary Biology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1390.

DEVELOPMENTAL BIOLOGY: Teaching is expected to include an intermediate level laboratory course in developmental biology as well as an intermediate level course in one's area of special interest. Such a course would be expected to complement the department's offerings during the Fall semester in areas such as genomics, immunology, or stem cell biology. Interested persons should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: Dr. Scott Gilbert, Developmental Biology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1390.

Swarthmore College is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

Department of Biology: <http://www.swarthmore.edu/NatSci/Biology/positions/index.html> Aerial view of campus: <http://www.swarthmore.edu/NatSci/Biology/positions/swarthmore.jpg> Photographs around campus: <http://www.flickr.com/photos/cpurrin1/sets/1563608/>

cpurrin1@swarthmore.edu cpurrin1@swarthmore.edu

UAberystwyth EvolutionaryGenomics

The University of Aberystwyth is recruiting a Research Lecturer in Environmental Genomics or Metabolomics. Research themes of particular interest include the regulation of interactions between species (e.g. pathogen-host or herbivore-plant), or of biological response to environmental change (e.g. climate or pollution). Your research will be facilitated by scope for collaboration within the new £11m Research and Enterprise WCIREE partnership between the University of Wales, Aberystwyth and the University of Wales, Bangor.

Candidates interested in contributing to the development of omics level sentinel technology that provides rapid, global indicators of changes in ecosystems below- and above-ground indicative of system-level health, stress, recovery or stability are especially encouraged.

More details and application procedure see <http://www.aber.ac.uk/human-resources/en/vacancies/IBS/BS.06.12.doc>

For informal discussions please contact Prof. Mike Young miy@aber.ac.uk.

Ref: BS/06/12 Closing date: 20 December 2006

Rupert Marshall <rmm@aber.ac.uk>

UAlaskaFairbanks EvolPaleontologist

Earth Sciences Curator/ Paleontologist University of Alaska Fairbanks

The University of Alaska Museum of the North and the Department of Geology & Geophysics at the University of Alaska Fairbanks invite applications for a tenure-track, Assistant Professor position as Curator of Earth Sciences. We seek a dynamic individual who will instill their enthusiasm for paleontology in both students and the public. Applicants who can successfully implement their vision for using natural history collections on the leading edge of science are especially encouraged to apply.

Applicants must have an earned Ph.D. in paleontology or a closely related field prior to hire. Teaching, curatorial, and postdoctoral experience is preferred. The successful candidate is expected to establish a vigorous, externally funded research program; curate and expand the Museum's Earth Sciences collections; collaborate with existing faculty with interests in sedimentology, stratigraphy, geochronology, Quaternary geology, evolutionary biology, and paleoclimatic or paleoenvironmental reconstruction; teach at least one course per year; and advise undergraduates, M.S., and Ph.D. students. Preferred applicants will have a strong background in developing, managing, and using museum collections, and in a specialized research area in paleontology, which is flexible. Experience working with or teaching diverse student populations is desirable. A newly expanded museum, collections laboratory, start-up funds and supercomputer facilities are

available. Further information about both the Department and Museum is available at www.uaf.edu/geology and www.uaf.edu/geology. Interested applicants should apply online at www.uakjobs.com by completing an application form and uploading a curriculum vitae; contact information for three references; copies of key publications; and separate statements summarizing experience and long-term goals in research, curation, and teaching. Screening of applications will begin on January 2, 2007, and continue until the position is filled. Questions about this announcement can be addressed to Molly Lee (ffmcl@uaf.edu).

The University of Alaska is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Link Olson Curator of Mammals Assistant Professor of Systematic Biology University of Alaska Museum 907 Yukon Drive Fairbanks, AK 99775-6960 tel: 907-474-5998 fax: 907-474-5469 email: link.olson@uaf.edu <http://www.uaf.edu/museum/mammal/Link.Olson/> See the UAM Mammal Collection database: http://arctos.database.museum/uam_mamm/ Link Olson <link.olson@uaf.edu>

UAmsterdam PopBiol

As announced in the upcoming issue of Nature and in NatureJobs online:

The Institute for Biodiversity and Ecosystem Dynamics (IBED) of the University of Amsterdam invites applications for a full-time position as

Research leader / Senior scientist in Population Biology Full time vacancy number 06-1075 For both internal and external candidates

IBED is seeking an outstanding scientist who will provide leadership in research and teaching in the field of population biology. The research group he or she will lead consists of tenured scientists, PhD students and post-docs. The group's aims are (1) to develop a theoretical basis for understanding how population structure be it genetic, physiological, social, spatial or trophic influences the persistence and extinction of populations and communities, and (2) to test the hypotheses emerging from these models in biotic systems amenable to experimental manipulation.

Tasks The appointee will be expected to develop an independent research programme on the interactions be-

tween plants, herbivores and their natural enemies, and to obtain additional funding. Potential research topics include gene-environment interactions, co-evolutionary arms races, maintenance of polymorphisms, frequency-dependent selection, and feedback mechanisms between natural selection and population dynamics. The appointee will be expected to use modern tools developed in molecular biology and genetics for testing population biological hypotheses; a thorough background in population and molecular biology is therefore required. Furthermore, the appointee will be expected to interact with plant physiologists, ecologists, evolutionary biologists and mathematical biologists. In addition to contributing to the existing educational programme of the Bachelors and Masters curriculum in biology, he or she will play an important role in initiating new courses and in the supervision of PhD projects. Finally, the appointee will be expected to contribute to the management processes in our institute and faculty.

Requirements We welcome applications from researchers with a PhD in biology (with ecology, evolutionary biology and molecular biology as the main ingredients of the training) and a proven track record in research, as evidenced by, for example, publications in high-ranking international journals. The successful applicant will be an inspiring teacher and scientist, with proven didactic skills and the capacity to provide leadership in the development of the discipline, from both research and educational perspectives. He or she will also have a record in the supervision of graduate and/or PhD students and have a proven ability to acquire research funds from external parties.

More information Further information can be obtained from Prof. P. H. van Tienderen, email tienderen@science.uva.nl. Information about IBED can be found at www.science.uva.nl/ibed. Appointment The position will initially be a temporary one; a permanent contract will be offered after the candidate has proven him- or herself qualified for the position. The gross monthly salary will be in accordance with the university regulations for academic personnel, and will range from 4,192 up to a maximum of 5,603 (scale 13/14), depending on previous experience and education.

Job application Applications should include a detailed curriculum vitae and a cover letter, be marked strictly confidential and bear the vacancy number in the upper left-hand corner of the envelope. They should be sent before 2 January 2007 to: Universiteit van Amsterdam, Faculty of Science Dept. PZ, attn: Mrs A. Crajé, Kruislaan 404, 1098 SM Amsterdam, The Netherlands. Applications may also be emailed to application@science.uva.nl. They too should bear the vacancy number.

tienderen@science.uva.nl tienderen@science.uva.nl

UCalgary 3 MolecEvolBiol

The Department of Biological Sciences at the University of Calgary invites applications for up to three tenure-track Assistant Professor positions. These positions are part of a strategic departmental plan to further enhance research in environmental microbiology, plant biology and evolutionary biology. Candidates suitable for hiring at the Associate Professor level may also be considered.

3. Molecular Evolutionary Biologist

We are seeking to hire a molecular evolutionary biologist whose research integrates evolutionary dynamics at the population and/or species level with underlying molecular and genetic mechanisms to address fundamental evolutionary questions. The research program should have a strong conceptual foundation, and use modern molecular techniques. Candidates whose work integrates theory and experiment are particularly encouraged to apply.

Applicants must have a Ph.D., at least one year of relevant post-doctoral experience and an established record of high-quality research. The successful candidate will be expected to develop an externally-funded research program and participate in undergraduate and graduate teaching. The Department of Biological Sciences (<http://www.bio.ucalgary.ca>) is a large and diverse department with excellent facilities. Interdisciplinary and resource opportunities exist in the newly established Institute for Sustainable Energy, Environment, and Economy (ISEEE, www.iseee.ca <<http://www.iseee.ca>>) and the Institute of Biocomplexity and Informatics (IBI, www.ibi.ucalgary.ca <<http://www.ibi.ucalgary.ca>>). The City of Calgary (pop. 1 million) has a lively cultural life, vibrant economy and many recreational opportunities. It is located less than an hour from the Rocky Mountains and Banff National Park.

Applications should include a covering letter that clearly specifies which position is being sought, a curriculum vitae, a concise outline of research plans, copies of up to five publications, a statement of teaching interests and philosophy, and three letters of reference sent directly by the referees. The deadline for receipt of a complete application package is January 12, 2007. Send to Dr. Jeffrey I. Goldberg, Head, Department of

Biological Sciences, University of Calgary, 2500 University Drive NW, Calgary, Alberta T2N 1N4. FAX: (403) 289-9311.

All qualified candidates are encouraged to apply; however, Canadians and Permanent Residents will be given priority. The University of Calgary respects, appreciates and encourages diversity.

Jeremy Fox

Asst. Professor and Alberta Ingenuity New Faculty
Dept. of Biological Sciences University of Calgary 2500
University Dr. NW Calgary, AB T2N 1N4 Canada

jefox@ucalgary.ca

UCaliforniaDavis TheoPopGenet

Theoretical Population Genetics, UNIVERSITY OF CALIFORNIA, DAVIS – The College of Biological Sciences, University of California, Davis invites applications and nominations for a position in the Section of Evolution and Ecology at the tenure-track ASSISTANT, ASSOCIATE or FULL PROFESSOR level. Candidates must have a Ph.D. (or equivalent) in the biological sciences or related fields. Candidates should have a strong record of research in theoretical population genetics, focusing on questions related to evolutionary and population genomics. We stress that applicants at all levels will be given serious consideration. The successful candidate will be expected to teach an undergraduate course in introductory biology or evolution and to participate in the Core Course required of all first-year graduate students in the Population Biology Graduate Group. Applicants should submit application materials online at <http://www2.eve.ucdavis.edu/jobs/>. These will include: curriculum vita, description of current and projected research, summary of teaching interests and experience, and up to five publications. Applicants should also arrange to have three referees submit supporting letters online at the above website. Closing Date: Open until filled, but all application materials, including letters of recommendation, must be received by January 17, 2007, to assure full consideration. Administrative contact, nominations: Barbara Shaneyfelt (bashaneyfelt@ucdavis.edu). The University of California is an Equal Opportunity/ Affirmative Action Employer with a strong institutional commitment to the

development of a climate that supports equality of opportunity and respect for differences.

mturelli@ucdavis.edu mturelli@ucdavis.edu

UCaliforniaMerced PopGenet LabAssist

A new position has been created for a full-time Laboratory Assistant to work on projects investigating biodiversity in marine invertebrates and fishes from molecular to ecosystem levels. The exact position, level of expectation, and responsibility will depend upon previous education and experience. The successful candidate will be part of a multidisciplinary research team in the Quantitative Systems Biology and Environmental Systems groups in the School of Natural Sciences, University of California, Merced. UC Merced is a dynamic new university campus which opened in August 2005 as the tenth campus of the University of California and the first American research university built in the 21st century. The campus is located in the Central Valley, at the base of Yosemite National Park, Sierra Nevada, and only 2-3 hours from spectacular Pacific coast sites.

Initial duties will include field collection and preservation, curation of samples, DNA extraction, PCR, preparation of samples for DNA sequencing, cloning, microsatellites, and morphological measurements. Additional duties may include light and scanning electron microscopy, sequencing, database management, student training, cDNA library construction, library screening, gene expression microarray analyses, real-time quantitative PCR, in situ hybridizations and other developmental techniques for which training can be provided if necessary.

Desired qualifications: A BS or MS in biological sciences with experience working in molecular ecology, population genetics, phylogeography, or phylogenetics. Experienced in field collection and preservation, DNA extraction, PCR, and preparation of samples for DNA sequencing; also cloning, microsatellite analyses, and additional molecular techniques.

Questions regarding the position and research may be addressed to Dr. Michael Dawson by email mdawson@ucmerced.edu or telephone 209-228-4056. Information about ongoing projects in the lab can be found at <http://mnd.ucmerced.edu>. Additional information about the School of Natural Sciences and the University of California at Merced can be found at <http://www.ucmerced.edu>.

Conditions: The preferred starting date is before 01 March 2007, but this may be negotiable; the position is available for up to 2 years pending successful review after 3, 6, and 12 months; continuation beyond 2 years is contingent on performance and availability of funds. The starting salary range is \$25,560-28,500 annually (\$2,130-2,375 monthly based on the UC payscale for a Lab Assistant I step 2 to Lab Assistant II step 2) depending on qualifications. The appointee will also be eligible for generous UC benefits. University of California at Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students.

To apply: Please send a resumé, names of three references (with email contact), and cover letter to: Dr. Michael Dawson, School of Natural Sciences, University of California at Merced, PO Box 2039, Merced, CA 95344, USA. The job advertisement can be found online at <http://jobs.ucmerced.edu/n/staff/position.jsf?positionIdw2>.

Closing date: Review of applications will begin immediately and continue until the position is filled.

mdawson@ucmerced.edu mdawson@ucmerced.edu

UCollegeLondon EvolGenetics

These jobs will shortly be advertised in Nature, New Scientist and elsewhere:

University College London Department of Biology

We invite applications from outstanding candidates for three tenure-track academic positions, as follows:

1. Lecturer/Senior Lecturer in Genetics or Evolution

whose research interests lie in one of the following general areas:

- comparative genomics and genomic approaches to phenotypic traits
- population or statistical genetics
- comparative development and evolution

2. Lecturer/Senior Lecturer in Human Genetics

The focus of activity could be either experimental or statistical in one of the following areas:

- family or population approaches to human phenotype analysis
- human evolutionary genetics
- medical genetics

3. Lecturer/Senior Lecturer in Environmental Biology with research interests in one of the following general areas:

- environmental biology, including environmental microbiology - ecosystems or macroecology - biodiversity and conservation

Appointments will be on the Lecturer B (£32,795 - £39,160 plus London allowance of £2,497) or Senior Lecturer scale (£42,791 - £46,758 plus London allowance), depending on qualifications and experience. We expect candidates to have a minimum of three years post-doctoral experience. The successful candidates will be expected to establish independent, externally-funded research groups and to contribute to teaching of our BSc degree programmes (www.ucl.ac.uk/biology/). The Biology Department was rated highly (5) in the last National Research Assessment. It includes researchers working at all biological scales from molecular sub-structure to animal/human populations and the environment.

Application forms and preliminary information can be obtained from Caroline Gougerty, Office Manager (c.gougerty@ucl.ac.uk tel +44 (0)207 679 7011). Informal inquiries can be directed to the Head of Department, (w.richardson@ucl.ac.uk). Closing date for completed applications is Friday 9th February 2007. We hope to hold interviews in March 2007 and appointees are expected to be in post by October 2007. Please note, UCL is closed from 23rd December 06 to 1st January 07, re-opens 2nd January 07.

j.mallet@ucl.ac.uk j.mallet@ucl.ac.uk

Uillinois EvoBiology

The Department of Animal Biology invites applications for a full-time (9-month), tenure-track faculty position at the assistant professor level to begin 16 August 2007, or negotiable. We seek candidates who can establish a vigorous, externally funded research program in vertebrate evolutionary-developmental biology, broadly construed. Areas of interest include, but are not limited to, evolution of phenotypic variation or plasticity and genomic studies of selection or diversification. We are particularly interested in candidates using or developing genomic approaches. The successful candidate will be expected to collaborate with current faculty to develop major research initiatives in evolutionary genomics. For full consideration, applications must

be received by 8 December 2006. For more information see www.life.uiuc.edu/sib or contact us by email (sib@life.uiuc.edu) or phone (217 333-3044). UIUC is an AA-EOE.

- Dr. Kimberly Hughes School of Integrative Biology and Institute for Genomic Biology Graduate Program in Ecology and Evolutionary Biology 515 Morrill Hall (mailing address) or 465B Morrill Hall (office) 505 S. Goodwin Ave. University of Illinois Urbana, IL 61801 Ph: 217-244-6632 FAX: 217-244-4565 <http://www.life.uiuc.edu/kahughes/> kahughes@life.uiuc.edu

UKiel ComparativeAnalysis

Postdoctoral Scientist Position

within the DFG-project So 145/24-2 for initially 34 months starting from March 2007 (renewable for 1 further year, depending upon a continuation of funding)

We are looking for an ecologist who will be responsible for a comparative analysis (meta analysis) of results (seasonal time series data, size spectra, biomass and productivity patterns, etc) generated from various experimental and observational projects within the DFG priority program AQUASHIFT (The impact of climate variability on aquatic ecosystems , <http://www.ifm-geomar.de/?id85&L=1>) which comprises fresh water and marine study sites.

We expect an above average doctorate in a subject related to the future work, preferably Biological Oceanography, Limnology, or Ecology. Applications by statisticians and modellers with ecological experience will also be considered. Experience in the future research field should be documented by publications or manuscripts. The required qualification comprises familiarity with

- time-series analysis and meta-analysis - theoretical concepts of ecology - aquatic ecosystems

Experiences in ecological modelling and knowledge of German at conversation level would be helpful.

The Leibniz Institut für Meereswissenschaften wishes to increase the number of female co-workers, and applications from women are particularly encouraged. Applications for handicapped persons will be favoured when all other qualifications are equal.

Applicants should send (until January 31, 2007) a curriculum vitae, a statement of research experience and interests, list of publications, reprints, manuscripts and

copies of the M.Sc. and PhD-certificates to:

Leibniz-Institut für Meereswissenschaften an der Universität Kiel - Personalbüro - Wischhofstraße 1-3 24148 Kiel

Please mark Your application with the keyword "AQUASHIFT-metaanalysis"

Further information can be obtained from Prof. Dr. Ulrich Sommer (Tel.: +49 (431) 600-4400, E-mail: usommer@ifm-geomar.de

Gabriele Barth Leibniz-Institut für Meereswissenschaften IFM-Geomar FB3 - Marine Ökologie Düsternbrooker Weg 20 D-24105 Kiel, Germany phone: ++49-431-6004401 fax: ++49-431-6004402 email gbarth@ifm-geomar.de <http://www.ifm-geomar.de> <<http://www.ifm-geomar.de>

Gabriele Barth <gbarth@ifm-geomar.de>

ULiverpool 5 EvolBiol

Faculty positions available at University of Liverpool, School of Biological Science.

Around 5 positions at a variety of levels are available across biology at the moment, including areas of comparative genomics, quantitative biology and marine biology. Closing date 8th Jan. For details see...

<http://uniwww.connect.org.uk/jobs/academic.html> (then go to B/913, 914 & 915) <http://www.liv.ac.uk/> <http://www.liv.ac.uk/biolsci/> Liverpool biology has all the usual attributes of a dynamic thrusting department on the make, new building, genomics suite (microarray robots, scanners, soon to buy 454 or Solexa sequencer), proteomics suite (2D, iTRAQ, MS/MS qTOF, whatever), confocal imaging, aquarium, animal house. Liverpool is particularly strong in infectious disease (School of Tropical Medicine, Vet School). Some nice pubs.

Steve P

Dr. Steve Paterson Lecturer in host-parasite biology School of Biological Sciences University of Liverpool LIVERPOOL, UK L69 7ZB

Tel. 0151 795 4521 Mob. 0151 794 7668 Fax. 0151 795 4408 email s.paterson@liv.ac.uk Rm. 202 Biosciences Building <http://pcwww.liv.ac.uk/~step11/PatHome.html> S.Paterson@liverpool.ac.uk S.Paterson@liverpool.ac.uk

UMunich MolEvolEcol ResAssoc

Job:

UNIVERSITY of MUNICH, Department Biology, Evolutionary Ecology RESEARCH ASSOCIATE (Akademischer Rat auf Zeit) For Molecular Evolutionary Ecology

The Department of Biology at LMU Munich invites applications for a research associate (Akademischer Rat auf Zeit) to establish a vigorous, independent research group in molecular evolutionary ecology. We are particularly interested in candidates who are willing to perform research projects with *Daphnia*. We expect an excellent background in evolutionary ecology and sufficient experience in molecular techniques to run the molecular lab of the evolutionary ecology group. Successful candidates will develop externally funded research programs, direct graduate students, contribute to the teaching mission of the department, and will have the opportunity to get the "Habilitation" (a German qualification supportive in applications for professorships).

Applicants should submit electronically a complete CV, reprints (pdf-files) of three representative papers and a concise description of current and future research concepts. Applicants should also arrange for at least three letters of reference to be submitted on their behalf to the address below.

The position is available starting May 2007 for up to six years. Initial appointment is for three years. Review of applications will begin January 19, 2007 and continue until the position is filled. For more information contact

Wilfried Gabriel Professor of Ecology Department of Biology University of Munich (LMU) Grosshaderner Str. 2 D-82152 Martinsried Germany Tel: ++49 89 2180 74 202 Email: wilfried.gabriel@lmu.de <<mailto:wilfried.gabriel@lmu.de>>

The University of Munich is an Equal Opportunity/Affirmative Action Employer and has an affirmative action policy for the disabled.

wilfried.gabriel@LMU.de wilfried.gabriel@LMU.de

UNewMexico MathematicalBiology

The University of New Mexico Department of Biology and Department of Mathematics & Statistics

The College of Arts and Sciences is searching for a full-time assistant professor with research interest in mathematical biology, computational biology, or biostatistics to join its Health, Medicine and Human Values (HMHV) Program in Fall 2007. The HMHV Program is the undergraduate component of UNMs Combined BA/MD program partnership between the College of Arts and Sciences and the UNM School of Medicine. Depending on the research and teaching interests of the candidate, the primary appointment will be made either in the Department of Biology or the Department of Mathematics & Statistics in a probationary appointment leading to a tenure decision. The successful candidate will hold a joint appointment and shared teaching responsibilities in the Department of Biology and the Department of Mathematics & Statistics; the primary appointment will be either in Biology or Mathematics & Statistics. The successful candidate is also expected to establish a rigorous and independent funded research program. A Ph.D. in appropriate discipline is required by start date of position. For complete job requirements see <http://biology.unm.edu/news/jobs.html>. To apply applicants must submit a signed letter of application, a Curriculum Vitae, a statement of research and teaching interests, at least three letters of recommendation, evidence of teaching proficiency if available and representative publications. Please send application materials to: Ms Yvonne Martinez-Ingram, Search Coordinator, Biology/Math & Statistics Search, UNM Biology Department, MSC03 2020, 1 University of New Mexico, Albuquerque, New Mexico 87131-0001. For best consideration, candidates should submit all application materials by January 16, 2007. The position will remain open until filled. The University of New Mexico is an Equal Opportunity/Affirmative Action Employer and Educator.

toolson@unm.edu toolson@unm.edu

UNorthCarolinaCH EvolGenetics

Evolutionary Genetics in the lab of Chris Willett at UNC-Chapel Hill

I am hiring a RESEARCH TECHNICIAN for my lab in the Department of Biology. Position is available immediately (ability to start by January preferred); initial appointment for one year with a possibility of future extension.

RESEARCH SUMMARY: My lab is currently focused on studies of speciation and adaptation using the intertidal copepod *Tigriopus californicus*. Experiments concentrate on genetic systems involved in reproductive isolation and their physiological consequences. Lab web page (<http://www.bio.unc.edu/faculty/willett/>) has more information on research.

REQUIRED EXPERIENCE: A Bachelor's degree in biology or a closely related field and some experience in basic laboratory techniques are required. Additional qualifications desired: experience with molecular biology protocols, experience with handling of organisms, and experience supervising others.

RESPONSIBILITIES: 30% Isolation and molecular analysis of DNA using PCR and other techniques; 20% Physiological assays of enzyme performance in hybrid copepods; 20% Culture maintenance and crossing of copepods; 10% Supervision of undergraduates; 10% Data analysis of results from molecular sequencing; 10% Ordering and laboratory maintenance.

APPLICATION: Please submit a CV or resume, contact information for two references, and a cover letter summarizing your qualifications and interest in the position via email to Chris Willett at: willett4@email.unc.edu. Applications will be evaluated as they arrive.

willett4@email.unc.edu willett4@email.unc.edu

UOklahoma GeneticsGenomics

Case-Hooper Professorship: Genetics/Genomics

The Department of Zoology, University of Oklahoma, invites applications for a new tenured or tenure-track position as the Case-Hooper Professor of Zoology, at the Assistant or Associate Professor level, beginning in the fall of 2007. We seek an outstanding scientist whose research addresses basic questions in genetics, genomics, and/or uses molecular genetic approaches to investigate fundamental biological processes or mechanisms. Research could focus in either of the two intellec-

tual themes of the department (Ecology and Evolutionary Biology; Neurobiology, Cell Signaling and Development), or bridge between these themes. The successful candidate will have a Ph.D. degree, and a demonstrated ability to conduct significant independent research as judged by publications. The applicant will be expected to establish an externally-funded research program and contribute to undergraduate and graduate teaching (one course per semester), including a core course in genetics. Faculty with established research programs are encouraged to apply. Send curriculum vitae, selected reprints/preprints, research and teaching statements, and three letters of recommendation to Chair, Genetics Search Committee, Department of Zoology, The University of Oklahoma, 730 Van Vleet Oval, room 314, Norman, OK 73019. Further information about the Department of Zoology is available at <http://www.ou.edu/cas/zoology/> <<http://www.ou.edu/cas/zoology/>>. Screening of candidates will begin January 15, 2007 and will continue until the position is filled.

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer. Women and minorities are strongly encouraged to apply.

Lawrence J. Weider, Ph.D. Director, The University of Oklahoma Biological Station HC-71, Box 205 Kingston, OK 73439 Phone: 1-405-325-7438 ljweider@ou.edu

and

Professor Department of Zoology University of Oklahoma Norman, OK 73019 Phone: 1-405-325-4766 FAX: 1-405-325-0835

ljweider@ou.edu

USheffield Molecular Adaptation

4 Marie Curie fellowships (duration two years) are available as part of a project titled Molecular Adaptation in Ecologically Relevant Organisms, MAERO. The aim of this Transfer of Knowledge program is to create local expertise in the analysis of sequence and molecular marker data to identify loci that have evolved adaptively in natural populations. The fellows will work as a team of four, developing and testing methods that distinguish the effects of selection and demography on genetic variation. Each fellow will also be assigned to their own discrete project. Fellow 1, who will have a PhD and 10 years postgraduate experience, will lead

the team and also study molecular adaptation in range margin populations of *Arabidopsis lyrata*. Fellows 2, 3 and 4 will be involved in projects studying molecular adaptation of fitness genes in a free-living population of Soay sheep (supervisor Jon Slate), the molecular evolution of sexually-selected genes in birds (supervisor Terry Burke), and adaptation and barriers to gene flow in *Littorina winkles* (supervisor Roger Butlin). All fellows should hold a PhD in a relevant discipline such as statistical genetics, molecular evolution, computational biology or bioinformatics.

In order to fulfill the European Commission's mobility criteria for this post, please be aware that all applicants must either: Be an EU national, who has not been employed in the UK for more than 12 months in the last three years OR Be a national of a non-EU country who has been employed within the EU (excluding the UK) for at least four of the last five years.

The posts may be available to other non-EU nationals in exceptional cases, please contact Dr Slate prior to submitting your application. Furthermore, please note that candidates should NOT be a UK national, unless they have been employed and have legally resided in a non-EU country for at least four of the last five years.

The Department of Animal and Plant Sciences (<http://www.shef.ac.uk/aps/index.html>) is one of the largest whole organism biology departments in the UK and was ranked 5* (the highest possible grade) in the last Research Assessment Exercise. The Evolution and Behaviour Group is one of five groups within the department and has considerable strengths in evolutionary genetics (Burke, Butlin, Slate), behavioural ecology (Birkhead, Hatchwell, Lummaa), evolutionary entomology (Siva-Jothy, Snook, Rolff) and social evolution (Ratnieks). The fellows will also benefit from sharing a work environment with members of the department with strengths in modelling and mathematical biology (Rees, Boots, Freckleton, Armsworth).

Further details and application packs on the posts can be found at <http://www.sheffield.ac.uk/-jobs/research.html> under job references PR2656 and PR2667. Informal enquiries can be made to Jon Slate (j.slate@shef.ac.uk), Roger Butlin (r.k.butlin@shef.ac.uk) or Terry Burke (t.a.burke@shef.ac.uk)

Dr Jon Slate Dept. Animal & Plant Sciences University of Sheffield Tel: 0114 2220048 Fax: 0114 2220002 Web: <http://www.jon-slate.staff.shef.ac.uk/>

j.slate@sheffield.ac.uk j.slate@sheffield.ac.uk

UVermont WaspSystematics LabTech

A Laboratory Research Technician position is available in the Department of Biology, University of Vermont (Burlington). The full-time, three-year position is a component of an NSF-funded research project investigating the systematics of paper wasps in Kurt Pickett's lab at UVM. The Laboratory Research Technician will conduct technical activities in the molecular systematics laboratory including: molecular specimen cataloging and curation; DNA isolation; PCR amplification; sequencing and DNA sequence editing; maintenance of molecular reagents, stock solutions and related equipment. The Technician will also assist in troubleshooting molecular reactions, debugging technical problems, and training incoming members of the lab.

Minimum Qualifications include a Bachelor's degree in a related biological discipline, or equivalent combination of education and experience. Experience with DNA sequence analysis is highly desirable.

Additional information about the position is available at <http://www.uvmjobs.com/>. Applications must be made online at <http://www.uvmjobs.com/>, using the Job Requisition Number: 031700.

Kurt Milton Pickett <kpickett@amnh.org>

UdeConcepcion Chile SystBiodiversity

Systematic and Biodiversity Assistant Professorship Positions

The Department of Zoology is seeking candidates for two Assistant Professorship positions in Systematics and Biodiversity to study patterns and processes of Biodiversity in animals (vertebrates and invertebrates), using modern and advanced approaches to address questions of broad interest in systematics and biology. The successful candidate will be expected to contribute to the undergraduate and graduate education programs, and to develop a complementary research line to study Biodiversity in the Department of Zoology. The candidate should be available to begin in March 2007. Qualifications: Ph.D., postdoctoral experience, a demonstrable research experience through projects and publications, and teaching capabilities in systematics and biodiversity. Applicants should submit Curriculum Vitae, brief statements of teaching and research interests and two letters of recommendation to the Universidad de Concepción, Dirección de Personal, Casilla 160-C, Correo 3, Universidad de Concepción, Concepción, Chile.

Dr. Pedro F. Victoriano Depto. Zoología Universidad de Concepcion

Pedro Victoriano <pvictori@udec.cl>

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AFLP scoring using GeneMarker

Dear All,

Is anyone else out there using SoftGenetic's GeneMarker to score AFLPs? I am trying to organize and read data from an ABI 3730. Having never used software to score these type of data before, I'm unclear on how best to proceed. The data look good, but the instructions accompanying GeneMarker lack in rudimentary instruction. How do you proceed from the data? Do you go through your samples using a Panel Editor, then move on to the Trace Comparison feature? Right now I'm looking at data from my "screening" population set (ostensibly maximizing genetic variability), with three DNA extractions from each isolate in the set, and see very reassuring uniformity within each triplicate set. I'm hoping to establish a set of loci to use for further population and progeny set studies. While it's not clear in the GeneMarker manual, I'm hoping there's a way to use the software to filter future data to focus on only those loci identified in the screening population. I'm waiting to hear back from the SoftGenetics people, hoping they can give me some advice, but in the meantime thought I'd contact folks here. Thanks, Bob.

Robert.Marra@po.state.ct.us

Barnacle DNA extraction answers

Thank you all for your answers to our question about DNA extraction of barnacles.

Several methods were mentioned that could be tried.

The Qiagen Dneasy tissue kit (often a very option) didn't work in our case, we had tried that already.

Purgen kits (Gentra) was also suggested by several, something I want to try.

Also suggested were plant CTAB methods, which we had used and didn't work in our case (with the whole animal) Using only the cirri ("feeding arms") seemed a good suggestion, avoiding problems with nasty enzymes in their intestines.

So what did we do? We used only the cirri and our CTAB method (includes chloroform extractions), which gave a small amount but good DNA which appears to be much more stable than using the whole animal!! So using a part of the body, excluding intestines etc. is much better.

Secondly we tried two kits (free samples!) from Microzone Ltd. The 'DYNAMITE for difficult cells' was used with a whole animal and gave loads of DNA that also appears stable. Further we used cirri with their MICROLYSIS PLUS kit, which gave a small amount, but seemingly stable DNA. The MICROLYSIS plus kit is the quickest and easiest, but gives a limited amount of DNA (good for PCRs), whereas Dynamite needs a few more steps (still very quick and easy), but gives more DNA to play with.

MICROLYSIS PLUS is not hugely expensive, something like 60 pence a sample and VERY easy and quick. The DYNAMITE for difficult cells (or DYNAMITE for mouth swaps) is still in its trial phase, so we were grateful for the free sample of Microzone. This product will need some further testing, but is likely to be available after Xmas. Check their website www.microzone.co.uk (no I don't have shares).

We are pleased to say that we have now passed the extraction phase, finally, and working on constructing a library. Thanks again for your suggestions.

Best wishes, Kirsten Wolff

List of some of the responses:

do barnacles have a hepatopancreas? This organ is famed for causing problem in snails due to the number of enzymes in it (mostly anecdotal, admittedly). If so, then dissect out or use foot alone? In any case, if it

is still degrading then it must be due to some kind of DNase carry over.

Cheerio, Angus

We have had terrific success in extracting cirri of *Balanus glandula* with a 10% chelex solution (see Sotka, E.E., J.P. Wares, R.K. Grosberg and S.R. Palumbi. (2004) Strong genetic clines and geographic variation in gene flow in the rocky intertidal barnacle *Balanus glandula*. *Molecular Ecology* 13:2143-2156), as well as a Nucleospin kit. Yes, I dissect two or three pairs of cirri and place into 150 ul of 10% chelex. This represents about 1mm sq. worth of tissue.

Erik

Yours is a familiar tale... I have run into molluscs that do what your barnacle is doing. Have you tried crushing the tissue in liquid nitrogen and then straight into CTAB? Can you take only muscle tissue rather than the whole animal? The only other thing I can suggest is something you are undoubtedly already doing, which is to not be greedy when collecting the aqueous phase in your extractions to minimize any contaminants. Probably none of this will help – no doubt there is an evil humour co-purifying with the DNA!

Richard

Which column based extractions have you used? I had similar problems when extracting DNA from mygalomorph spiders (DNA broke down after 24 hours...sometimes less) and I found that the QIAGEN kits worked nicely. If a CTAB protocol is working (albeit briefly) you could try grinding the tissue sample in liquid nitrogen (as for a standard plant extraction) - there's a paper that describes similar problems for ladybird extractions and that was their solution (Schulenburg et al in *Mol. Biol. Evol.* 18(4): 648-660. 2001). Otherwise there's the option of washing the sample with bleach then dd H2O. In general I also found that using smaller starting quantities of tissue and ensuring that I was only using internal muscle tissue helped a great deal. All the best though... it's a nasty problem!

Amber

I was just sent this link by someone, and thought of you and Martha. I haven't tried it, but yet another potential source if Martha is still having lots of trouble getting usable DNA. <http://www.omegabiotek.com/productsrange/genomicdnaisolation/genomicproductlistmain.html>

Reia

I just saw your post on Evoldir concerning you DNA extraction problems I have not idea why the columns dont work but you could try our new DNA extraction

protocol, which combined CTAB and silica purification. It was developed for brown algae which are especially difficult to extract but it should work on any "difficult species" I hope it will help All the best Dr. Galice Hoarau Soon to appear in *Molec Ecol Notes: TECHNICAL NOTE A fast and inexpensive DNA extraction/purification protocol for brown macroalgae GALICE HOARAU,*

— / —

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>

Drosophila stocks

*New genetically marked stocks of *Drosophila simulans* and *D. mauritiana* at the Tucson Stock Center* Details at <http://stockcenter.arl.arizona.edu/>. The 31 *D. simulans* lines (TSC Stock numbers 14021-0251.218 through 14021-0251.247) were created in the laboratory of David Stern from an EMS screen beginning with either the wild-type strain 14021-0251.006 or the st[1], e[1] strain 14021-0251.034.

The 93 *D. mauritiana* lines (TSC Stock numbers 14021-0241.61 through 14021-0241.153) were created in the laboratory of Cathy Laurie by P-element insertions on the X, II and III chromosomes. They were originally described in:

True, J.R., Mercer, J.M., Laurie, C.C. Differences in crossover frequency and distribution among three sibling species of *Drosophila*. *Genetics* 1996 142(2): 507–523. The insertion sites have all been mapped by inverse PCR.

tmarkow@public.arl.arizona.edu

ESF proposals PopGenetConsBiol

The European Science Foundation's Research Networking Programme on "Integrating Population Genetics and Conservation Biology: Merging Theoretical, Experimental and Applied Approaches" (ConGen) invites

proposals from potential organisers of workshops to be held at the end of 2007 and in the first half of 2008 on topics with a clear connection to the Programme.

The Programme is also offering funding for a number of Short Visit Grants (up to 15 days) and Exchange Grants (up to 6 months) to take place in 2007.

Further information on ConGen scope and objectives, eligibility criteria and online application procedure is available on the ESF Website: <http://www.esf.org/-congen> Thanks a lot,

Sarah

Sarah Renay Life, Earth and Environmental Sciences (LESC) European Science Foundation (ESF) BP 90015 1, quai Lezay-Marnésia 67080 Strasbourg Cedex France Tel: +33 3 88 76 21 84 Fax: +33 3 88 37 05 32 email: srenay@esf.org web: www.esf.org

Sarah Renay <srenay@esf.org>

Eppendorf RT-PCR

Hi,

I am about to make my final decision about a real time PCR machine. Has anyone purchased the Eppendorf machine? If so, can you let me know:

- 1/ Why you decided to buy an Eppendorf machine and
- 2/ Are you happy with your decision.

Thanks Alex

–

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

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

FlockofDodos and DarwinDay

Brian....

Thought some could be interested....

Thanks.

Mike Nolan

For information about Flock of Dodos in general, visit: <http://www.flockofdodos.com> For information about its Darwin Day events, visit: <http://www.flockofdodos.com/darwinday.htm> Mike Nolan

—————
If we are on another line or away from the phone, please leave your number, best time to return your call and/or your e-mail address.

After hours and weekend phone appointments are available upon request.

Sincerely,

J. Michael Nolan, Director

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Europe: Marion Stephan Frankfurt, Germany E-mail: mstephan@rainforestandreef.org Phone: 011.49.172.305.4738

“J. Michael Nolan” <mnolan@rainforestandreef.org>

Funding UK systematics

*New funding opportunity for **UK** systematics*

The BBSRC Collaborative Scheme for systematics Research is designed to provide short-term funding for new collaborative research in systematics. The initiative is intended to support preliminary collaborative research that will form the basis of novel respon-

sive mode proposals to either BBSRC or NERC. Details of the scheme, which will provide funding of £2k to £20k for collaborative projects with a substantial systematic/phylogenetic/taxonomic component, can be found at <http://www.systass.org/awards/cosyst.html>. The scheme is available only to UK-based applicants, and the administrative lead must be eligible to receive responsive mode funding from NERC and/or BBSRC. Closing date 31st January 2007.

Please address any enquires about the scheme to CoSyst@googlemail.com

Julie Hawkins <cosyst@googlemail.com>

GNU GeneMapper version

Hello

I'm doing my PhD and I will use microsatellites markers on bread wheat. I've already used GeneMapper (Applied Biosystems) to analyse the data from sequencer ABI 3130 but now I work with Linux Ubuntu. So I look for a software that analyses microsatellites data files from ABI sequencer but that can be installed on Linux. I hope I'm not the only one that look for such software.

Thank you for your help.

Yves Rousselle Plant Genetic Lab. INRA UPS INAPG CNRS Ferme du Moulon - 91190 Gif sur Yvette - France

deltamoins@yahoo.fr

Human Evolution texts

Hi,

I am preparing my next year course on Evolutionary Biology and I am looking for a good text on HUMAN EVOLUTION.

Does anyone can help me?

Is there a good and recent review about that?

What about teaching material like good pictures, graphs, etc?

Thanks for any help !!!

Voltolini

Prof. Dr. J. C. VOLTOLINI Grupo de Estudos em Ecologia de Mamíferos (ECOMAM) Universidade de Taubate - Departamento de Biologia Taubate, SP. 12030-010. E-Mail: jcvoltol@uol.com.br Website do ECOMAM: <http://jcvoltol.sites.uol.com.br/> Fotos de Cursos: <http://jcvoltol.fotoblog.uol.com.br/> Currículo Lattes: <http://lattes.cnpq.br/8137155809735635> Fotos Artísticas: <http://voltolini.fotos.net.br/texturas> jcvoltol@uol.com.br

Human Evolution texts answers

Dear friends,

I would like to share the 8 suggestions I received from the list !!!

But.... I am waiting more!!!

There is a book by Chris Stringer and Peter Andrews called 'The complete world of human Evolution'. This was a good core book for the human Evolution module I took for my degree. It has a very recent edition and gives all the basics. For more detail its reference list can be checked out.

I'm not an expert in human evolution, but this is a very interesting topic and I have some documents about it. There is a book entitled "Human Evolutionary Genetics" that is very comprehensive, and it's written in a very easy-to-understand but professional manner. The amazon link is; http://www.amazon.com/-/Human-Evolutionary-Genetics-Matthew-Hurles/dp/-0815341857/sr=8-1/qid66616417/ref=pd_bbs_sr_1/-002-3050681-3447265?ie=UTF8&s=books If you're going to teach human evolution for a long time, I highly recommend that book (though it's a personal view, not professional). Moreover, there is an excellent recent review about Primate comparative genomics that, though not focused in human evolution, offered me a lot of interesting ideas and references. The PubMed link is that;

http://www.ncbi.nlm.nih.gov/entrez/-query.fcgi?db=pubmed&cmd=Retrieve&dopt<<stratPlus&list_uids485353&query_hl=1&itool=pubmed_docsum I could send you the PDF if you don't have access to it. That's all I can say, my research area is not human evolution itself so perhaps there exists a lot of good textbooks that I don't know.

You may or may not be interested in this book, but I recently saw the author speak and found his book to be an excellent current overview of human evolution. It is not suitable as a textbook, but I think it would be a good source for constructing lectures from nothing. "Human evolution: a very short introduction", Bernard Wood

http://www.amazon.co.uk/Human-Evolution-Short-Introduction-Introductions/dp/0192803603/sr-1/-qid66615232/ref=sr_11_1/203-0310298-5115968 .For a modern text, you could try: "The Origin of Species, Revisited" (McGill-Queens 2001) "Evolutionary Bioinformatics" (Springer 2006)

You may find some useful pictures in evolution web-pages (<http://post.queensu.ca/~forsdyke/evolutio.htm>) And, in all seriousness, for background reading you should read Samuel Butler's 1878 text "Life and Habit".

Human Evolutionary Genetics: origins, people and disease. M Jobling, M Hurles and C Tyler-Smith Garland Science, 2004

It depends a bit on what exactly you want, but if you are interested in human evolution with special reference to disease susceptibility en genetics, I find "Human Evolutionary Genetics" from Jobling, Hurles and Tyler-Smith quite useful. There is a review from Rockman in Hum Genet. 2004 May 13. It does not, though, go into all other homonids.

The human species (2006) by John H. Relethford. Ed McGrawHill (with online resources) level of difficulty: low How humans evolved (2003) by Robert Boyd and Joan B. Silk. Ed WW Norton&Company (with online resources) Physical Anthropology (2006) by Philip L. Stein and Bruce M. Roewe. Ed McGrawHill (with online resources) Introduction to Physical Anthropology (2003) (may be there is a newer one?) by Robert Jurmain, Lynn Kilgore et al.. Ed Thomson Wadsworth (with online resources)

all these three are of intermediate difficulty Reconstructin Human Origins. (2005) by Glenn C. Conroy. Ed WW Norton&Company. Human Evolutionary Genetics. Origins People and diseases. (2004) by MA Jobling, ME Hurles and C Tyler-Smith. Ed Garland Science These two are more advanced

that's an excellent compilation of original texts: <http://www.amazon.com/Human-Evolution-Source-Book-Advances/dp/0130329819> Voltolini

Prof. Dr. J. C. VOLTOLINI Grupo de Estudos em Ecologia de Mamiferos (ECOMAM) Universidade de Taubate - Departamento de Biologia Taubate, SP.

12030-010. E-Mail: jcvoltol@uol.com.br Website do ECOMAM: <http://jcvoltol.sites.uol.com.br/> Fotos de Cursos: <http://jcvoltol.fotoblog.uol.com.br/> Currículo Lattes: <http://lattes.cnpq.br/8137155809735635>

— / —

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Inexpensive DNA sequencing

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

-Thanks much Mike Goodisman

Michael A D Goodisman

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

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

michael.goodisman@biology.gatech.edu

michael.goodisman@biology.gatech.edu

Inexpensive DNA sequencing answers

Dear All, Many thanks to those of you who replied to our request for information on DNA sequencing costs. We have listed the names of the different companies that sequence DNA below in no particular order. Note that we have not given pricing for these companies,

because prices are negotiable in most cases. Consequently, we recommend that you explore each company individually. Overall, however, it seems that moderate throughput sequencing can be accomplished for as low as \$US 2.30/sample.

-Thanks again Mike Goodisman and Brendan Hunt

MacroGen <http://www.macrogen.com> University of Chicago Cancer Research Center <http://cancer-seqbase.bsd.uchicago.edu/> Secugen <http://www.secugen.es/index.php?titulo=Secugen%20Spain&lang=en> Atlantic Genome Centre <http://tagc.ca/services.php> DNA Analysis Facility on Science Hill at Yale University <http://130.132.86.97/labwebsite/DNAindex.html> GATC at U of Arizona <http://gatc.arl.arizona.edu/services/sequencing.php> Cornell DNA Sequencing and Genotyping <http://www.brc.cornell.edu/brcinfo/?p=sequencing> Genaissance Pharmaceuticals <http://genaisance.com/products.services/sequencing.html> Centre for Applied Genomics www.tcag.ca Agencourt Bioscience <http://www.agencourt.com/> University of Georgia Core Facility <http://www.ovpr.uga.edu/corefacilities/ibl.html> Genome Quebec Innovation Centre <http://www.genomequebec.mcgill.ca/centre.php?language=en> University of Utah Medical School <http://www.cores.utah.edu/DNASequencing/> University of Puerto Rico Sequencing and Genotyping Facility <http://dnaseq.hpcf.upr.edu/> University Washington High Throughput Genomics Center <http://www.htseq.org/index.html> SymBio <http://www.sym-bio.com/> Cleveland State University DNA Analysis Facility <http://www.csuohio.edu/uored/dna/index.html> Nevada Genomics <http://www.ag.unr.edu/Genomics/> > Hi All, > I am preparing to sequence a few thousand PCR products. > I am looking for a company/university that will do this sequencing > quickly, accurately, and, most importantly, cheaply. I would be > grateful to hear any suggestions on companies (national or > international) that people have used in the past for this kind > of moderate throughput sequencing. > >-Thanks much > Mike Goodisman

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

6311 lab: 404-385-6312 fax: 404-894-0519

Info on Grant Writing Workshops

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

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

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

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

Mismatch distributions

Hi all- I am attempting to examine the demographic history of a marine fish population using the mismatch distribution of mtDNA sequences, and have run into a snag. My mismatch distribution indicates a strong wave, but right in the middle of the wave I have a single data point (corresponding to 20-bp mismatch between sequences) which has bottomed out. That is to say, when comparing a large number of sequences, I have 1000+ comparisons that result in 18, 19, 21 and 22 mismatches, but only 193 comparisons resulted in 20-bp mismatches. I am inclined to think this is a problem with the way my data file is set up, but I have been unsuccessful in all of my attempts to address the problem. Has anyone else observed this problem, and, if so, can

you propose a solution?

Joel Anderson Natural Resource Specialist Perry R.
Bass Marine Fisheries Research Station Coastal Fish-
eries Division, Texas Parks and Wildlife

Joel.Anderson@tpwd.state.tx.us

Mouse colour vision

We are studying selection of nesting material in mice. Does anyone have any knowledge of colour perception/cone organisation in the mouse (*Mus musculus*)? Our searches on this have led nowhere. Many thanks, Roger Roger Davies Dept of Biological Science University of Chester UK

Roger Davies <r.davies@chester.ac.uk>

Purchasing sequencer

I know this question has been asked before, but I can not seem to find it in the archives. We are in the process of purchasing a new sequencer, and are considering either an ABI3130 Avant or a Beckman CEQ8000. I am very familiar with ABI, but have no experience with Beckman. The instrument will be primarily used in teaching and some research in a small liberal arts college setting, with anticipated medium to low throughput, probably with some extended periods of down time, and for both sequencing (PCR/cloned) and microsats. Any input concerning the Beckman would be greatly appreciated, particularly in terms of ease of use, reliable, and data quality. Thanks in advance.

S. Shawn McCafferty Assistant Professor Department of Biology Room 231, Science Center Wheaton College 26 East Main Street Norton, MA 02766-2322

Email: smccaffe@wheatonma.edu

SNPs SAP CIP question

Dear all,

We have run into a peculiar technical problem when scoring SNPs using ABI's SNaPshot-kit, I wonder if anyone has similar experiences. We recently started to use SAP instead of CIP to purify the SNaPshot reactions. This resulted in a dramatic increase in peak heights in the ABI3100 runs. This was a desirable effect, but also brought along problems. First, some of the reactions became saturated (with peak heights > 10 000). Second, we occasionally started to see (allele specific) peaks in the negative controls. The curious thing is that the peak heights of the size marker (LIZ120) also increased substantially. The phenomenon is common but rather random, popping up with several different loci. The phosphatase buffer does not seem to have an effect on the results (as opposed to water), nor do the injection times. Can anyone explain what's behind this?

Thank you,

Jukka

Jukka Palo Department of Forensic Medicine University of Helsinki FINLAND

jukka.palo@helsinki.fi jukka.palo@helsinki.fi

Sargassum muticum samples

Sargassum muticum samples

Dear colleagues: I have recently started my PhD research project at the University of Glamorgan in Wales, looking at the molecular ecology of the invasive alga *Sargassum muticum*, under the supervision of Drs. Georgina Harper and Tim Johnson. As part of my study I am looking to complete a global phylogeographical study of this species with a view to uncovering invasion routes, source populations and genetic diversity on invaded regions. I am therefore trying to get material from a wide range of worldwide locations including its native range in the northwest Pacific (Japan, China and Korea). I would greatly appreciate if you have any samples - herbarium dried or preserved in EtOH - suitable for DNA analyses that you may be able to share with me: or if you may be able to collect some sample material and send it to me. Your help will allow analysing most of the worldwide population diversity, which would be a fantastic element for my PhD research work. If you do have samples to share or could collect some material and send it on, we could sort out a pro-

to col for sending them to Glamorgan University and we would provide the cost of postage so that no cost is involved on your side. Thanks a lot for your help and please feel free to contact me with any questions you may have.

Kind regards, Paul Hallas

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

jphallas1980@yahoo.co.uk

Software PHYML New version

A new version of PHYML is available from <http://atgc.lirmm.fr/alrt/>. This version implements the LRT-based test that is described in Anisimova & Gascuel, Syst. Biol. 55(4), 539-552, 2006. Moreover, it involves new optimization procedures based on careful inspection of NNIs. All together this program computes the branch supports and improves the tree likelihood, without increasing (in average) the computing time of original PHYML.

gascuel@lirmm.fr

Software TESS 1 01 Spatial Genetics Clustering

Dear evoldir members,

We would like to inform you about a new STRUCTURE-like clustering program for windows. TESS 1.01: Bayesian clustering using tessellations and Markov models in spatial population genetics

TESS is a computer program that implements a Bayesian clustering algorithm for spatial population genetics. The method is based on a hierarchical mixture model where the prior distribution on cluster labels is defined as a Hidden Markov Random Field. Given individual geographical locations, the program seeks population structure from multilocus genotypes without assuming predefined populations. Instead the program builds a network structure indicating which individuals should be considered genetically close to each other.

TESS takes input data files in a format compatible to STRUCTURE. It returns graphical displays of cluster membership probabilities and geographical cluster assignments from its Graphical User Interface. Is it particularly useful for seeking genetic barriers or genetic discontinuities in continuous populations.

The program is available at the following url

<http://www-timc.imag.fr/Olivier.Francois/tess.html>

Program sources are available on request for those who wish to use a Linux version. The reference for the method is <>

O. Franois, S. Ancelet, G. Guillot (2006) Bayesian clustering using hidden Markov random fields in spatial population genetics. Genetics, 174: 805-816.

best wishes, olivier

olivier <Olivier.Francois@imag.fr>

Thermocycler for sale

Hi,

Our thermocycler recently died and I was wondering if anyone out there had an used thermocycler for sale. Ideally we are looking for one that would do gradients, but would like to hear what's out there.

thanks,

Karl

grub0121@tc.umn.edu

UillinoisChicago Biodiversity

NSF IGERT Opportunities at the University of Illinois at Chicago Landscape, Ecological and Anthropogenic Processes (LEAP)

We are seeking outstanding doctoral students interested in interdisciplinary research and training in ecological and evolutionary processes occurring in integrated human/natural landscapes. This training program aims to develop new approaches to protect biodiversity by improving our knowledge of ecosystems and landscapes that have high human impacts. The LEAP program

includes an integrated curriculum of environmental science, planning, and policy as well as internships with Chicago-area partners. This IGERT program seeks to prepare a new generation of leaders in environmental science and biodiversity conservation with a focus on urban and other human-dominated ecosystems.

LEAP Fellows will be selected from qualified Ph.D. students who have been accepted into participating doctoral programs (including but not limited to Biology, Civil and Materials Engineering, Earth and Environmental Science, and Urban Planning and Policy) that have research interests consistent with the goals of LEAP. A LEAP fellowship will provide a full stipend (\$30,000/yr.) and tuition for two years, and research and travel funds for four years. U.S. citizenship or permanent residency is required for IGERT fellowships. Fellows will be selected based on student qualifications, relevance of research interests, and balance among participating programs and faculty. We are committed to broadening participation in the environmental sciences and especially encourage applications from members of underrepresented minority groups.

For additional information on application procedures, participating faculty, research opportunities, contact information, and UIC, visit the LEAP website at <http://www.leap.uic.edu>. A downloadable brochure is also available on our web site. Applications for Fall 2007 should be submitted by January 15, 2007.

– Mary V. Ashley Professor Faculty Coordinator, Ecology and Evolution University of Illinois at Chicago 845 W. Taylor St., M/C 066 Chicago, IL 60607

Phone: (312) 413-9700 FAX: (312) 996-9462 E-mail: ashley@uic.edu

UK creationism

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

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

To save the length of this email, I've posted the

initial correspondence on my blog at <http://postbloggery.blogspot.com/2006/11/politicking.html> <<http://postbloggery.blogspot.com/2006/11/politicking.html>> and my final reply at <http://postbloggery.blogspot.com/2006/11/democracy-in-action.html> <<http://postbloggery.blogspot.com/2006/11/democracy-in-action.html>>

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

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

All the best,

John Bothwell (ideally credited as "postblogger", if poss.!) Marine Biological Association of the UK, The Laboratory, Citadel Hill, Plymouth, PL1 2PB

John Bothwell <jhbot@MBA.ac.uk>

ULosLagos TwoFieldVolunteers

VOLUNTEERS NEEDED Two Field Volunteer wanted: Jan - Jun 2007

Molecular Evolution of salmonid invasions Evolutionary Impact of exotic aquaculture

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

University of Wales Swansea (UK), Centre for Ecology & Hydrology (UK), Oregon State University (USA), University of Victoria (Canada), US Geological Survey (USA), and Victoria University of Wellington (New Zealand)

The Darwin Initiative Reducing the Impact of Exotic Aquaculture on Chilean Aquatic Biodiversity (www.biodiversity.cl) is seeking two volunteers to help assess the evolutionary impact of salmonid aquaculture in Southern Chile (X Region), around the Puerto Montt area.

Project This DEFRA-funded Darwin Initiative started in October 2006, and is lead by the University of Wales Swansea (UK) and the Universidad de Los Lagos (Osorno and Puerto Montt - Chile), in collaboration with partners from USA, Canada and New Zealand. The

project aims to evaluate, monitor, and eventually reduce, the impact of exotic cultured species on native aquatic biodiversity.

Duties We are looking for two field volunteers to help us sample selected streams and lakes to monitor the distribution of exotic and naturalized salmonids, and to evaluate the effects of salmonid farms on local wildlife (piscivorous birds and mammals mostly). Previous experience in fish sampling (electro-fishing, netting), and ecological monitoring in aquatic ecosystems would be advantageous.

Period Most field work is anticipated to take place during January-June each year. There will be a probation period, after which it is expected that the volunteers would be able to commit for at least three months.

Qualifications Volunteers are expected to have a degree in biology or life sciences. The positions are ideally suited for postgraduate students who want to gain direct fieldwork experience in some of the most unique and valuable aquatic ecosystems in the world. The experience would be particularly useful for persons contemplating graduate studies or a career in environmental biology, aquatic ecology, or conservation. A driving licence and knowledge of Spanish will be advantageous. Applicants must be reliable, highly motivated and capable of living and working in field conditions. Because of the nature of the work, volunteers must be physically fit.

Costs The work is open to self-funded volunteers. We will provide all the equipment and support but field volunteers are expected to cover their own transport costs to Puerto Montt (largest city near study area), including insurance and visas. Field transport, food, and accommodation in Chile will be provided by the Project.

Applications and additional information For more information and to apply please contact Dr. Gonzalo Gajardo (local project coordinator - ggajardo@ulagos.cl) or Dr. Carlos Garcia de Leaniz (project leader - c.garciadeleaniz@swansea.ac.uk). To apply, please send CV, contact details of two potential references and a covering letter stating why you would like to work in the project and when you would be available.

Dr. Carlos Garcia de Leaniz University of Wales Swansea Biological Sciences Singleton Park, SA2 8PP Swansea, UK Tel. +44 (0) 1792 295383 Fax. +44 (0) 1792 295447 email. c.garciadeleaniz@swansea.ac.uk Darwin Initiative www.biodiversity.cl "GarciaDeLeaniz C." <C.GarciaDeLeaniz@swansea.ac.uk>

UNotreDame EvoBiol

GLOBES IGERT Fellowship Opportunity at University of Notre Dame

Dear Colleagues,

Team GLOBES invites you to learn more about a pioneering initiative and fellowship opportunity at the University of Notre Dame. GLOBES is a new, interdisciplinary Ph.D. program studying Global Linkages of Biology, the Environment, and Society. Launched by funding from an IGERT (Integrated Graduate Education, Research and Traineeship) grant from the National Science Foundation, GLOBES offers a number of unique interdisciplinary classes, symposium, conferences, and research and education activities of both national and international scope mentored by faculty from across the College of Science, the College of Arts and Letters, and the Law School.

The central theme of GLOBES research projects is that environmental degradation in the form of habitat destruction, biodiversity loss, water pollution, and the spread of invasive species and infectious disease has interrelated causes and feedbacks that are both biological and social in nature. To address these problems requires the coordinated effort of biological and social scientists working in concert with experts in public policy and the law.

Students who have a strong interest in team-based interdisciplinary studies and research are encouraged to apply. Fellowships, available to U.S. residents and permanent citizens, include generous yearly stipends, a full waiver of graduate tuition, research and travel funds.

Application deadlines for Fall 2007 admission vary depending on the home department of study. Participating departments include Biological Sciences (Jan. 15 deadline), Mathematics, Physics, Chemistry and Biochemistry, Economics and Econometrics, History, Philosophy, History and Philosophy of Science, and Theology. For additional information on application procedures, GLOBES faculty, home Ph.D. departments, research facilities and the University of Notre Dame, visit the GLOBES website at <http://globes.nd.edu> <<http://globes.nd.edu/>>

Kind regards,

Jeffrey L. Feder GLOBES Program Director Department of Biological Sciences University of Notre Dame,

IN 46556-0369 E-mail: feder.2@nd.edu Phone: (574) 631-4159 Fax: (574) 631-7413 Website: <http://globes.nd.edu> <<http://globes.nd.edu>

Ginna Anderson GLOBES Program Department of Biological Sciences Rm 180, Galvin Life Sciences University of Notre Dame Notre Dame, IN 46556-0369 tel: 574-631-3287 fax: 574-631-7413 email: vanderso@nd.edu <http://globes.nd.edu> Virginia Anderson <vanderso@nd.edu> Virginia Anderson <vanderso@nd.edu>

Used mol biol equipment

Hello all.

Our university is an small but growing university in Santa Marta-Colombia desperatly looking foward to start doing research in evolutionary biology and genetics. However we don't have a molecular biology lab. yet. If you havean unusedPCR thermocycler or other molecular biology equipment that want to sell, we really need to find good deals. Thanks so much,

Lyda R. Castro Universidad del Magdalena Santa Marta, Colombia

lyda raquel castro <lydaraquelcastro@hotmail.com>

Variant site software

Usefull little program that compare your sequences (fasta file) with a master sequence and list the variant sites in comma delimmated format that can be pasted into an excel file. You can also specify the position of the first bp of the master sequence and save several different master sequences into a panel for master sequences.

S-compare

Compares aligned sequences with a master sequence. The output given will be the place where the changes are and to what it changed:

Windows version (303kb)

Available at

<http://www.up.ac.za/academic/genetics/staff/-Greeff/Research/software.htm>

cschlebu@yahoo.com

PostDocs

AlbertEinstein CollegeofMedicine EvolSystemsBiol	51	UCaliforniaDavis PopBiol	58
DalhousieU EvolMitochondria	51	UCaliforniaRiverside EvolBiol	59
GeorgiaTech EvolofInfectiousDiseases	52	UChicago HumanGenetics	59
GeorgiaTech GenomeEvol	52	UCork Ireland EvolBioinformatics	60
GoteborgU ExperimentalMarineEvol	53	UEastAnglia DrosophilaMating	60
HebrewU EvolofBeeSociality	53	UGeorgia EvolProkaryoticPlasmids	61
KansasStateU EvolGenomics	54	ULaval QTLs	61
Norway ArcticBirdPop	54	ULEeds ArthropodFeminisation	62
RoyalMuseumCentralAfrica DNABarcoding	55	ULEeds ArthropodFeminisation	63
Rutgers MathModellingGenetics	55	UNorthCarolinaChapelHill Models of Evol	64
Sevilla ZooplanktonGenet	56	UParis PigeonPopGenet	64
Smithsonian MarineScienceNetwork	57	UParisSudXI Barcoding	65
Toulouse Phylogeny and tropical ecology	57	UPoitiers ULyon INSALyon ArthropodSymbiosis	65

URennes PlantBiodiversity	66
UReunion 2 ComparativePhyloGeography	67
UWashington HumanEvolGenetics	68

Albert Einstein College of Medicine Evol Systems Biol

Post Doctoral Research Fellow in Evolutionary Systems Biology

A postdoctoral research position is available in Systems Biology. Applicants should have an interdisciplinary research background in any of several areas of evolutionary, molecular, or systems biology, and hold (or be about to receive) a PhD. Areas of interest include but not limited to: Biological network evolution, gene-networks of complex traits such as aging, cancer, and neuropsychiatric diseases. See <http://www.bergmanlab.org> The position is available immediately and for the duration of 1-3 years; Salary (in the range of \$37K to \$40K, plus benefits) will be commensurate with experience. EOE.

Please send or email (application2007@bergmanlab.org) your CV, publications list, and three letters of recommendation to:

Aviv Bergman, PhD Professor Albert Einstein College of Medicine Jack and Pearl Resnick Campus 1300 Morris Park Avenue Bronx, NY 10461

Tom MacCarthy <tmaccart@aecom.yu.edu>

DalhousieU EvolMitochondria

POSTDOCTORAL RESEARCH POSITION?evolutionary cell/molecular biology of mitochondria and hydrogenosomes in anaerobic protists

Laboratory of Andrew J. Roger, Department of Biochemistry and Molecular Biology, Dalhousie University Halifax, Nova Scotia CANADA

We seek a highly skilled and self-motivated postdoctoral researcher to explore the evolution of metabolic and functional properties of mitochondrion-derived organelles (e.g. hydrogenosomes and mitosomes) in diverse free-living and parasitic anaerobic protists.

Specifically, the research will concern the subcellular localization of putative organellar proteins, purification and proteomic analysis of these organelles, as well as elucidation of organelle function from EST surveys of anaerobic protists. The organisms we are studying include poorly studied unicellular eukaryote lineages and will provide key insights into the early evolutionary history of mitochondria in the eukaryote lineage.

The Roger Lab is part of a collegial and internationally recognized community of comparative genomics and molecular evolution researchers at Dalhousie University. The successful applicant will have the opportunity to work collaboratively with these researchers and with those at other institutions. Demonstrated skills in cell and molecular biology (e.g. immunofluorescence, immuno-EM, SDS-PAGE and Western blotting & subcellular fractionation), comparative genomics, genome evolution and phylogenetics are important, as are strong written and oral communication abilities.

The position is available immediately (start date negotiable) and will run for an initial 1-year period, with the possibility of extension to 2 or 3 years given satisfactory performance. All qualified and interested persons are encouraged to apply. Applicants should email (1) a brief cover letter outlining their qualifications and research interests, (2) a curriculum vitae and (3) contact information for three references to:

Andrew Roger Andrew.Roger@dal.ca <http://rogerlab.biochem.dal.ca> Associate Professor and Fellow, CIAR Program in Evolutionary Biology Department of Biochemistry and Molecular Biology Dalhousie University Sir Charles Tupper Medical Building 5850 College Street, Halifax, Nova Scotia B3H 1X5, CANADA

Phone: (902) 494-2620 Fax: (902) 494-1355

CLOSING DATE: January 15, 2006.

– Andrew J. Roger Associate Professor, Fellow CIAR Program in Evolutionary Biology Dept. of Biochemistry and Molecular Biology, Dalhousie University Rm 8B1, 5850 College St., Halifax, N.S. B3H 1X5 Canada tel:902-494-2620 (office) tel:902-494-2881 (lab) fax:902-494-1355 lab webpage: <http://rogerlab.biochem.dal.ca>

Whatever you do, don't mention rabbits..... They are the new weapons of mass destruction.

Check out: www.climatecrisis.net and/or www.climatecrisis.net Andrew.Roger@Dal.Ca

<http://www.math.gatech.edu/~weiss> Howie Weiss
<weiss@math.gatech.edu>

GeorgiaTech EvolofInfectiousDiseases

Mathematical ecology, mathematical modeling of infectious diseases Georgia Tech

I have funding for a three-year postdoctoral position, beginning August 2007, in the field of Applied Dynamical Systems. Special consideration will be given to applicants working in mathematical ecology, mathematical modeling of infectious diseases, and/or dynamical systems on networks. The teaching load will be one course per semester.

Georgia Tech's Mathematics department, with its strong group in Dynamical Systems, and new Program in Mathematical Biology and Ecology, offers a rich and stimulating research environment for young researchers. Georgia Tech's Biology department has strong research groups in Ecology and Bioinformatics, and is quickly becoming a major player in Integrative Systems Biology. The postdoc will interact with researchers from across the campus and the Atlanta area, including the CDC, Emory University, and Georgia State University.

Applicants should send application materials to <appdynpostdoc@math.gatech.edu>. Please send a curriculum vita, a two-page research summary, and arrange for four letters of reference to be sent as soon as possible. All applications must be submitted electronically.

Applications will be reviewed starting from Dec. 1, 2006; however, all applications will be given consideration until the available position is filled.

Georgia Tech, an institution of the University System of Georgia, is an Equal Opportunity/Affirmative Action Employer.

Dr. Howard (Howie) Weiss Professor of Mathematics
133 Skiles Building Department of Mathematics Georgia
Institute of Technology Atlanta, GA 30332

Office Phone 404 385 2134 (with voice mail) Department
Phone 404 894 2700 eFax 509 692 4516 URL
<http://www.math.gatech.edu/~weiss> Dr. Howard
(Howie) Weiss Professor of Mathematics 133 Skiles
Building Department of Mathematics Georgia Institute
of Technology Atlanta, GA 30332

Office Phone 404 385 2134 (with voice mail) Department
Phone 404 894 2700 eFax 509 692 4516 URL

GeorgiaTech GenomeEvol

Postdoc in Evolutionary Genomics at Georgia Tech

A postdoctoral position is available immediately in Dr. Soojin Yi's lab at Georgia Tech. The general interest of the lab is understanding genome evolution at the molecular level. Please visit the lab website (<http://www.yilab.gatech.edu>) for our recent work and current projects.

We are looking for motivated individuals interested in genomics and evolution, specifically in functional genomics. We are developing projects on functional genomics of non-coding regions using primate cell lines. A PhD in genetics and evolution is required. Someone with a background in molecular genetics who is interested in expanding his/her expertise to questions in evolutionary genomics is especially welcome. The lab offers an excellent opportunity to learn primate genomics, comparative genomics, and molecular evolution.

The School of Biology at Georgia Tech offers an extremely collaborative environment, with several faculties in the field of evolutionary genetics (John McDonald, Michael Goodisman, Todd Streebman, I. King Jordan) and computational biology (Mark Borodovsky, Steve Harvey, Emmanuel Tannenbaum, Joshua Weitz). Georgia Tech is located in the heart of Atlanta, a vibrant city with many cultural and educational opportunities.

Interested individuals should send a CV with contacts for three references to Soojin Yi, at soojinyi@gatech.edu. Informal inquiries are welcome. –

Soojin Yi, PhD Assistant Professor School of Biology
Georgia Institute of Technology 310 Ferst Drive Atlanta,
GA 30332

(404) 385-6084 (tel) (404) 894-2295 (fax)
<http://www.yilab.gatech.edu> Soojin Yi
<soojin.yi@biology.gatech.edu>

GoteborgU ExperimentalMarineEvol

Göteborg University announces a position as

Post-doctoral researcher in Experimental Marine Ecology

A Post-doctoral research position is available for the project “Effects of particulate matter and sedimentation on cold-water coral ecosystems” during the period January 2007 to December 2008, at the Department of Marine Ecology, Göteborg University. This project is part of a project financed by Statoil under the “International Research Consortium on Continental Margins” coordinated by Prof. Laurenz Thomsen, Univ of Bremen. The project is also affiliated to the EU FP6 IP HERMES (Hotspot Ecosystem Research on the Margins of European Seas).

Effects of elevated levels of particulate matter and sedimentation on cold-water coral ecosystems are a matter of great concern, as it has often been expressed that increased levels of turbidity and sedimentation could have negative effects on growth and survival of the corals. Potential mediators of increased sedimentation might be offshore drilling activities as well as trawling activities, leading to resuspension of particles. The project will combine field and laboratory studies to assess effects on corals of increased sedimentation and turbidity, for example, using detailed mapping of coral reef areas by ROV- and video-mosaic techniques to identify areas of differing coral health in which recording instruments to study differences in hydrographic regime and particle flux dynamics will be installed. Laboratory experiments will include exposure of live coral colonies to differing quantities and qualities of suspended matter, including drill-cutting material, studying effects on coral survival, growth rates and respiration. Studies will be planned and designed in close co-operation with other participating partners.

The successful applicant should have a proficiency in experimental marine ecology including knowledge of statistical design and analysis. Knowledge in coral ecology/biology and/or hydrodynamics or small scale oceanography will be judged as a merit.

The position is available at Tjärnö Marine Biological Laboratory, a marine research station at Göteborg and Stockholm universities, situated on the west coast of

Sweden close to the Norwegian border.

For further information please contact Tomas Lundälv (Tomas.Lundalv@tmbl.gu.se), director of Tjärnö Centre for Underwater Documentation. For general information about the research station please consult www.tmbl.gu.se Application Applications, including full CV, a choice of three to five relevant publications, the names, postal and e-mail addresses of two academic referees, should be sent to:

Registrar, Göteborg University, Box 100, S-405 30 Göteborg, Sweden, stating the reference number E36 4774/06. no later than 20 December 2006.

Union representatives: SACO Martin Björkman, tel +46 31 773 3608, SEKO Lennart Olsson, tel +46 31 773 1173, OFR-S Eva Sjögren, tel +46 31 773 1169.

dahl.mikael@gmail.com

HebrewU EvolofBeeSociality

Postdoctoral position: Molecular sociobiology

A postdoctoral position is available for a study on task-related plasticity in circadian rhythms in bees. In both honeybees and bumblebees nurse bees care for the brood around the clock and foragers have strong circadian rhythms that are essential for timing visits to flowers and sun-compass navigation. We study the social regulation as well as the molecular and neuronal bases of this remarkable example of natural behavioral plasticity. We are based at the beautiful Givat Ram campus of the Hebrew University of Jerusalem, Jerusalem, Israel.

Requirements: A PhD in Biology or related fields and experience in either molecular biology, or immunocytochemistry is essential. Experience in animal behavior, or with social insects is advantageous.

The position is available for two years starting as early as April 2007. For more details and to apply, please send an e-mail with a cover letter, CV, list of publications, and names and contact information (address and e-mail) of three references to:

Dr. Guy Bloch Department of Evolution, Systematics, and Ecology The Alexander Silberman Institute of Life Sciences The Hebrew University of Jerusalem Jerusalem, 91904 Israel Tel., office 972-2-6584320 Tel., laboratory 972-2-6584270/86845 Fax no. 972-2-6584270 Electronic Mail bloch@vms.huji.ac.il

bloch@vms.huji.ac.il

KansasStateU EvolGenomics

POST DOCTORATE FELLOW IN ECOLOGICAL GENOMICS at K-State University

A POST DOCTORATE FELLOW OPPORTUNITY is available through the Ecological Genomics Visiting Scholar Program at Kansas State University (KSU). Proposals utilizing genetic and/or genomic approaches to examine ecologically relevant traits or interactions will receive highest priority. For additional information, please visit our website: <http://www.k-state.edu/ecogen/Recruit-Postdoc-EcogenVS.htm>

Our multi-disciplinary Institute seeks to understand responses of organisms to their natural environment by combining functional genomic and ecological approaches. The postdoctorate fellow will have access to excellent university resources including the Konza Prairie LTER site (<http://climate.konza.ksu.edu/>), Division of Biology infrastructure, and gene analysis facilities such as the KSU Gene Expression Facility (<http://www.k-state.edu/gene-exp/>).

Applicants should contact faculty in a potential host laboratory (<http://www.k-state.edu/ecogen/resgroup.html>) to explore space availability and overlap in research interests. Candidates must have a Ph.D., excellent oral and written communication skills, and the ability to work well in a collaborative research atmosphere. This full-time, 12-month, term position provides a competitive salary and benefits and may be renewed for a second one-year term depending on performance and availability of funds.

Full applications must include: 1. A cover letter detailing your qualifications and proposed start date. 2. A research proposal (three page maximum, not including references). 3. C.V./Professional resume. 4. Letter of support from the host PI at KSU. 5. Two letters of recommendation.

Complete applications can be e-mailed to Doris Merrill, dmerrill@ksu.edu or mailed to: Ecological Genomics Kansas State University Division of Biology, Ackert Hall Manhattan KS 66506-4901

Review of applications will begin February 1, 2007. This position is sponsored by a Kansas State University Targeted Excellence Award in Ecological Genomics.

KSU is an Equal Opportunity Employer, and actively seeks diversity among its employees.

Ecological Genomics Institute Kansas State University, Division of Biology 116Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, www.ksu.edu/ecogen Plan now to attend the 5th Annual Symposium Genes in Ecology, Ecology in Genes November 9-11, 2007, in Kansas City Visit <http://www.k-state.edu/ecogen/-symp2007.html> for more details.

dmerrill@ksu.edu

Norway ArcticBirdPop

Postdoctoral Position (three years) - Department of Arctic Ecology, Norwegian Institute for Nature Research

Project: Mapping threats to arctic bird populations. The effect of infectious organisms and pollution on bird health. IPY #172 BirdHealth. Project leader Sveinn Are Hanssen.

Applications are invited for a three year postdoctoral research associate position (from ~15 February 2007) in a project under the International Polar Year (IPY) at the Department of Arctic Ecology, NINA in Tromsø, Norway. The position is funded by a grant from The Research Council of Norway.

The main theme of the project is to understand how infectious organisms and pollution may affect the health, reproduction and survival of arctic bird populations. This will be achieved by field studies of female common eiders *Somateria mollissima* during breeding in three different areas, Northern Norway, Russia (White Sea) and Svalbard. Project description <http://www.ib.uit.no/~sah001/index_files/BH.pdf> The Postdoctor will be a member of a strong project group with members from among others NINA, the Norwegian Polar Institute, Akvaplan-NIVA and the University of Tromsø as well as international Research Institutes/Universities. This exciting environment is ideally suited for research and researcher training. The candidate is expected to take an active part in planning and conducting the fieldwork during the project period.

Candidates must have a Ph.D. in Evolutionary Biology, Parasitology or Immunoecology. We are looking for a candidate with independent fieldwork experience and with good skills in molecular biology techniques (preferably both genetic and immunological). The ideal

candidate will be creative, energetic and have excellent communication skills.

As NINA would like to increase the percentage of women in research positions women are encouraged to apply.

The position is remunerated at salary level 53 - 57 on the Norwegian State Salary scale, amounting to an annual gross salary (level 53) of NOK 383.000.

For further information about the position please contact Dr Sveinn Are Hanssen www.ib.uit.no/~sah001 sveinn.a.hanssen@nina.no Tel. +47 77750416 or +47 92625455 or Research Manager Sidsel Grønsvik sidsel.gronvik@nina.no <<mailto:sidsel.gronvik@nina.no>> Tel. +47 77750408.

Applications should contain a cover letter including a short summary of past accomplishments and future research interests, a CV, list of publications, PDFs of most relevant publications, and contact information of two referees.

Application deadline: 12 January 2007. Applications should be sent by e-mail to siri.svendsen@nina.no <<mailto:siri.svendsen@nina.no>>

sveinn.a.hanssen@nina.no

RoyalMuseumCentralAfrica DNAbarcoding

The Royal Museum for Central Africa and the Royal Belgian Institute of Natural Sciences are looking for two postdoctoral researchers in zoological sciences.

In the context of an initiative of the Belgian Federal Science Policy, the RMCA and RBINS will launch a joint Centre of Excellence, called the "Joint Experimental Molecular Unit". This project will run for 4 years starting from January 1st 2007.

This integrated research infrastructure will support scientific research and exploitation of natural history collections. It aims are to develop research in the fields of DNA barcoding and archiving biological specimens. The unit is administratively managed by the RBINS, but the research activities will be carried out in laboratories both at the RBINS and the RMCA.

The RMCA and RBINS aim to recruit two young researchers (postdoctoral level) within the framework of this project

Their major tasks will be to: - conduct and oversee laboratory work (DNA extraction, PCR amplification, DNA sequencing, microsatellite analyses, ;) - set up and management of frozen tissue collections - experiment with new protocols and analytical techniques - statistical and phylogenetic analyses - writing grants, reports and scientific papers - participation to scientific meetings - collect additional material in the field, if required

PROFILE: The candidates should preferably satisfy most of the following requirements: - PhD in Biology, Agricultural or Bio engineering, or Biomedical sciences - experience with PCR, DNA sequencing and microsatellite analyses - acquaintance with statistical data treatment, including sequence alignment, phylogeny inference and population genetics - must be able to work independently though in strong collaboration with the fellow researchers - interest or experience in taxonomy will be considered an advantage

HOW TO APPLY: Candidates should send their application with curriculum vitae to: C. PISANI, General director Royal Belgian Institute of Natural Sciences Vautierstraat 31 B-1000 Brussels Belgium

With reference: Vacature JEMU_Science or: By E-mail: jobs@naturalsciences.be with reference: Vacature JEMU_Science

Deadline for submission: January 10th 2007

Further information can be obtained from:

Marc De Meyer Royal Museum for Central Africa Leuvensesteenweg 13 B-3080 Tervuren, Belgium Tel: +32 (0)2 769 53 60 demeyer@africamuseum.be

Thierry Backeljau Royal Belgian Institute of Natural Sciences Vautierstraat 29 B-1000 Brussels, Belgium Tel: +32 (0)2 627 43 39 thierry.backeljau@naturalsciences.be

Erik Verheyen <Erik.Verheyen@naturalsciences.be>

Rutgers MathModellingGenetics

MATHEMATICAL MODELING OF THE GENETICS OF DISEASE RESISTANCE IN OYSTERS

A postdoctoral position is available immediately to participate in modeling of the population genetics of oysters. Funding is from the NSF Biocomplexity in the Environment Program and the Ecology of Infectious

Disease Program. The modeling effort is directed at (1) the interaction of phenotype and genotype in determining larval growth and survival and (2) the investigation of the mechanisms for the development of disease resistance in natural populations of shellfish. The projects are a multidisciplinary program including participants from Rutgers University, Old Dominion University, and University of Southern California. The appointment would be for two years.

We are looking for a motivated individual interested in focusing on the development and implementation of numerical gene-based models of population dynamics, but also including the ability to advance theoretical investigations. A PhD in genetics or a related field is required. Someone with a background in theoretical genetics who is interested in expanding his/her expertise to numerical simulations of real-world case histories with application to breeding programs and ecological management questions is especially welcome.

The Haskin Shellfish Research Laboratory at Rutgers University offers an extremely collaborative environment, with faculty in the field of genomics (Ximing Guo), shellfish diseases (Susan Ford, Dave Bushek), numerical modeling and shellfish management (Eric Powell), and shellfish biology (John Kraeuter). Collaborative ties pertinent to the NSF programs include biological and physical modelers (Eileen Hofmann – ODU, John Klinck – ODU, Dale Haidvogel, RU), physiology (Donal Manahan – USC), and genetics and breeding (Dennis Hedgecock – USC).

Interested individuals should send a CV with contacts for three references to Eric Powell at eric@hsrl.rutgers.edu. Informal inquiries are welcome.

Applications will be reviewed starting from Feb. 1, 2006; however, all applications will be given consideration until the available position is filled.

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

Eric N. Powell Director, Haskin Shellfish Research Laboratory Rutgers University 6959 Miller Ave. Port Norris, NJ 08349 856-785-0074 x4309

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Tina Tryon Rutgers, The State University of NJ Haskin Shellfish Research Laboratory 6959 Miller Avenue Port Norris, NJ 08349-3167

Phone: (856) 785-0074 Ext. 4301 Fax: (856) 785-1544
tina@hsrl.rutgers.edu

Sevilla ZooplanktonGenet

Ecology and genetics of zooplankton in restored Mediterranean marshes: a three year postdoctoral position.

We offer a three-year postdoctoral position to work in the wetland ecology group of the Doñana Biological Station (EBD, www.ebd.csic.es) on a project entitled "effects of wetland restoration on zooplankton: a multidisciplinary approach" financed by the Andalusian government (Junta de Andalucía). A combination of traditional and molecular methods will be applied to study species diversity and genetic diversity of zooplankton (copepods, rotifers and cladocerans) colonizing 96 newly created ponds within a restored marsh system in Doñana National Park, one of Europe's most important wetlands. The research team is based in Seville and includes Andy Green, Ciro Rico, Dagmar Frisch (EBD) and Laura Serrano (Seville University). Tasks for the postdoc include field work (sampling of zooplankton) and population genetic analysis of at least two zooplankton species. There will be opportunities to collaborate with other teams in Europe studying zooplankton genetics.

The ideal candidate will have a Ph.D. in molecular ecology of zooplankton. Some experience of zooplankton identification and related fieldwork is essential. Experience in molecular work is a great advantage. An ability to communicate in English is essential, and a willingness to learn Spanish is highly desirable. Starting salary will be approximately ? 31,000 a year before tax and likely start date is 1 March 2007. Candidates should send a detailed CV and a letter expressing their interest in this position to the address given below (preferably by email). They should also provide details of two referees, and copies of two papers which they consider representative of their work to date. Review of applications will begin 15 January 2007 and continue until the position is filled. Further information on the project can also be requested from the same address:

Andy Green Estacion Biologica de Doñana Avenida Maria Luisa s/n Pabellón del Peru 41013 Sevilla Spain
ajgreen@ebd.csic.es Fax: +34 95 4621125, Tel : +34 95 4232340 ext.241

www.ebd.csic.es/andy Dr Dagmar Frisch Wetland Ecology Group Doñana Biological Station Avda. Maria

Luisa s/n 41013 Sevilla Spain
 Dagmar Frisch <dfrisch@sistern.net>

Smithsonian MarineScienceNetwork

Smithsonian Marine Science Network
 2007 Call for Post-Doctoral Fellowship Proposals

The Smithsonian Marine Science Network (MSN) is a unique array of laboratories and research vessels spanning the western Atlantic coastal zone and across the Isthmus of Panama, facilitating long-term interdisciplinary, comparative research between MSN sites. The Network includes SERC (Environmental Research Center, Edgewater, Maryland), SMSFP (Marine Station at Ft. Pierce, Florida), Carrie Bow Cay Marine Field Station (CCRE Program-Belize), and STRI (Tropical Research Institute, Panama). The MSN invites Post-Doctoral research proposals that address “marine biodiversity- and ecosystem function-related” research questions.

Eligibility & Award Amount Post-Doctoral scientists must collaborate directly with identified Smithsonian scientists as named sponsors/advisors of the fellowship (see Marine Research Staff information at www.si.edu/marinescience.) Stipends are \$40,000 per year with additional funds available for group health insurance, travel from place of origin to the Smithsonian host facility, research travel and research supplies, up to a combined \$48,000 maximum per year. Awards will be made for a maximum of two years, pending review of first-year progress report. Proposals must focus on comparative research involving more than one of the Network facilities. Individuals who have been employed or contracted by the Smithsonian Institution within the previous year are not eligible.

Thematic Marine Research Priorities Marine biodiversity- and ecosystem function-related questions.

Proposal Submission Deadline Proposals should first be sponsored by a Smithsonian staff scientist, then submitted electronically to Michael Lang (langm@si.edu), Office of the Under Secretary for Science, by 15 February 2007.

For application forms please contact

Rachel Collin, STRI (collinr@si.edu); Anson Hines, SERC (hinesa@si.edu); Valerie Paul,

SMSFP (paul@si.edu); Klaus Ruetzler, NMNH (ruetzlerk@si.edu); Michael Lang, OUS-Science, (langm@si.edu).

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 Dra. Rachel Collin Director, Bocas Research Station Smithsonian Tropical Research Institute Apartado Postal 0843-03092 Balboa, Ancon, Republic of Panama
collinr@si.edu <http://striweb.si.edu/collinlab/> Phone: +507-212-8766

Bocas del Toro Research Station <http://www.stri.org/bocas> Rachel Collin <collinr@si.edu>

Toulouse Phylogeny and tropical ecology

Phylogeny and tropical ecology postdoc

The Bridge project (funded by the French Research Council ANR, 2007-2009, cf details below) offers one post-doctoral position for 16 months based in Toulouse, France.

Essentials: You will hold a PhD in molecular phylogenetics or related fields with a proven expertise in molecular systematics techniques (DNA extractions & sequencing), preferably in plants. You will demonstrate interest in the broader questions in evolutionary ecology and tropical plant biodiversity studies. You will have a proven publication record and strong motivation.

Job duties: As part of the Bridge project, you will be responsible for developing a phylogenetic hypothesis for all genera of angiosperm trees occurring in French Guiana, a French overseas department. There is an estimate of 380 tree genera in this 88,240 sq.km area of Eastern South America. In collaboration with our partners at the Herbar de Guyane (Cayenne, French Guiana Drs Christopher Baraloto, Jean-Jacques de Granville), and at the Royal Botanic Gardens (Kew, United Kingdom; Dr Vincent Savolainen), you will collect herbarium or field specimen of selected species in the genera, will produce DNA sequences of selected plastid regions (*rbcL*, *matK*), and will construct a genus-level phylogenetic hypothesis for the tree flora of French Guiana. This will be the first direct attempt to create a robust phylogenetic hypothesis at the genus level for all tree species of a tropical forest area, and will serve as a basis for the analysis of the evolution of plant traits, to which the Research Associate will contribute

actively. This research will involve one trip (possibly two) to French Guiana and to the United Kingdom (KEW).

Duration: 16 months Monthly salary (net): 1871 euros Starting date: ideally, May 1st, 2007 References requested (send as a single PDF file): CV + lettre of motivation + two supporting letters. Deadline of submission: February 1st, 2007

To be sent to: Jerome Chave By email: chave@cict.fr

With cc to Vincent Savolainen (V.Savolainen@kew.org), and to Christopher Baraloto (baraloto@botany.ufl.edu)

Laboratoire Evolution et Diversité Biologique, UMR 5174 (CNRS/UPS), Université Paul Sabatier, Toulouse III, Batiment 4R3, F31062 Toulouse, France

Summary of the BRIDGE project: Why are there so many coexisting species of tropical trees? Niche theory predicts that in a local community, each species possesses a unique combination of traits (the species niche), that enables it to avoid competition with other species. In contrast, the recently developed neutral theory of biodiversity ascribes no role to competition and niches for local species coexistence. According to the neutral theory, dispersal limitation and demographic fluctuations overwhelm the deterministic processes of competitive exclusion. This project will (i) assemble a unique database combining ecological, physiological, and genetic information in several tropical forest tree communities of French Guiana, (ii) develop an unprecedented test of existing theories of biodiversity by combining field data and novel modelling approaches, and (iii) strengthen research in a French biodiversity hotspot. We will sample ten one-hectare old-growth forest tree plots across a range of geology and rainfall in French Guiana. Using molecular techniques, we will develop a refined phylogenetic hypothesis for the tree species found in our plots, and we will provide aids for molecular-based identification. We will measure the amount of niche conservatism across an ecologically relevant set of functional, reproductive, and defense traits, as measured in the field. We will use novel modelling methods to test whether existing species assemblages are a random sample of the regional species pool, and to assess the contribution of niche partitioning to the coexistence of tropical trees.

V.Savolainen@kew.org

UCaliforniaDavis PopBiol

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY—The Center for Population Biology at U. C. Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, systematics, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed their PhD. The position is for two years, subject to review after one year, and can begin as early as 1 July 2007. It has an annual salary of \$38,000 plus benefits, and \$6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology, and will be expected to have an independent research program that bridges the interests of two or more CPB research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. For more information about UCD programs in population biology, see <http://www.cpb.ucdavis.edu> <<http://www.cpb.ucdavis.edu/>> .

ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, and a short (1-2 page) description of proposed research indicating potential faculty mentors, and copies of two publications at <http://www2.eve.ucdavis.edu/jobs/> all as PDFs. We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on-line instructions at the website above for further information. For full consideration, applications should be received by January 12, 2007. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to gradcoordinator@ucdavis.edu.

<<http://cpb.ucdavis.edu/sitemap.htm>>

Stephanie Macey-Gallow Center for Population Biology
University of California, Davis 530-752-1274

Stephanie
<smaceygallow@ucdavis.edu>

Macey-Gallow

UCaliforniaRiverside EvoBioI

Hi,

I'm trying to spread the word about a postdoc program that certainly includes evolutionary biology, though it's not limited to it – please let me know if that's not ok. It's a new initiative and I would really like to get applicants from a wide variety of fields.

Thanks.

Here is the text of the message:

UCR Chancellor's Postdoctoral Fellowship for Cultivating Diversity in Science, Engineering, and Mathematics

Criteria Promising potential tenure-track applicants with no more than three years postdoctoral university experience

Award \$37,000 for 2007-2008 academic year, plus benefits and research support (see below)

Deadline January 15, 2007

Start Date October 1, 2007

The University of California, Riverside is committed to diversity as integral to excellence in higher education. UCR understands that in order to achieve excellence in research and service, it is necessary to cultivate a greater diversity of perspectives and backgrounds among all members of the university community. UCR shares a national concern about the underrepresentation of African Americans, Chicano/Latinos and American Indians in academic careers in Science, Technology, Engineering and Math (STEM).

The Chancellor's Postdoctoral Fellowship for Cultivating Diversity in Science, Engineering and Mathematics solicits applications from individuals with a demonstrated commitment to increasing the number of underrepresented ethnic minority faculty members in research institutions. The program is open to individuals with doctoral degrees in Science, Engineering and Math who are committed to careers in academia, and whose teaching, research or service will help UCR address the barriers that prevent full participation of underrepresented minority groups in academic careers in the STEM fields. The program provides postdoctoral fellowships, research opportunities, mentoring and guidance in preparation for academic career advancement.

The fellowship will be for two years, with the successful candidate working closely with a faculty member in the Bourns College of Engineering, the College of Natural and Agricultural Sciences, or the Division of Biomedical Sciences. In addition to the salary and benefits stipulated above, up to \$10,000 per year is available for travel to academic conferences, research support, materials and supplies.

Applicants must be U.S. citizens or permanent residents at the time of application, and must have no more than 3 years of postdoctoral experience at a university or other academic institution.

To apply, send two copies of the following: 1) curriculum vitae, 2) statement of proposed research (up to 5 pages, including an explanation of the project, the faculty member (s) who would serve as mentors, and a brief discussion of how the work would build on the applicant's dissertation research), 3) at least 2 publications or dissertation chapters, and 4) three letters of reference, one of which must be from the dissertation advisor. In addition, a brief statement from the proposed faculty mentor(s) agreeing to advise the applicant must be provided. Materials should be sent to Chancellor's Postdoctoral Fellowship, Offices of the Vice Provosts, Surge Building, University of California, Riverside, CA 92521, and must be postmarked by January 15, 2007. The recipient of the award will be announced in March, 2007.

Marlene Zuk Department of Biology University of California Riverside CA 92521 USA

Phone 951-827-3952 Fax 951-827-4286 email marlene.zuk@ucr.edu

Marlene Zuk <marlene.zuk@ucr.edu>

UChicago HumanGenetics

POSTDOC IN POPULATION GENETICS, UNIVERSITY OF CHICAGO

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

The specific research project is flexible, but must be related to adaptation in humans, either through modeling, data analysis or statistical methodology development. Additional research in the group currently focuses on (i) Developing approaches to estimate parame-

ters of speciation models (ii) Learning about human recombination rates from linkage disequilibrium and pedigree data, (iii) Examining the evolution of genes that contribute to human disease.

Our group enjoys close ties with other labs within the Human Genetics department, notably those of Anna Di Rienzo, Jonathan Pritchard and Matthew Stephens. Moreover, it benefits from the large and outstanding community of researchers in population genetics, statistics and genomics at the University of Chicago.

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

Molly Przeworski Dept. of Human Genetics University of Chicago 920 E. 58th St., 507H CLSC Chicago IL 60637 USA tel: (1 773) 834 8178 fax: (1 773) 834 0505 <http://mplab.bsd.uchicago.edu/> mfp@uchicago.edu mfp@uchicago.edu

UCork Ireland EvolBioinformatics

UCork.Ireland.EvolBioinformatics

Postdoctoral Fellow in bioinformatics & evolutionary genomics

Our lab is seeking applications from highly motivated postdocs interested in working on molecular evolution & bioinformatics approaches applied to understanding plant, nematode or human genomes from April/May 2007 onwards. We are seeking candidates that are interested to effectively combine bioinformatic approaches with ongoing wet-lab research in the following research theme areas in our lab: genomic imprinting, miRNAs, polynucleotide repeats and protein evolution.

We are seeking enthusiastic and highly motivated candidates with excellent and proven skills in bioinformatics. Candidates with proven experience in molecular evolution and bioinformatics (e.g. programming in C, Perl, Python) and with research interests in relation to any of the aforementioned themes are particularly encouraged to apply.

Applicants should send an e-mail outlining your research interest and motivations, including; (a) your

C.V. (please list publications and experimental skills) & (b) contact details and e-mail addresses for 3 referees to:

Dr. Charles Spillane, Genetics & Biotechnology Lab, Biochemistry Dept & Biosciences Institute, University College Cork, Cork, Ireland. E-mail: c.spillane@ucc.ie

Lab website: www.ucc.ie/spillane Deadline: 12th January 2007

Dr. Charlie SPILLANE, SFI Investigator, Dept of Biochemistry & Biosciences Institute, University College Cork (UCC), 2.10, Lee Maltings, Cork, IRELAND

[T] 00-353-21-4904124 (office) [E] c.spillane@ucc.ie
[W] www.ucc.ie/ucc/depts/biochemistry/-staff/cspillane.html "Spillane, Charles"
<C.Spillane@ucc.ie>

UEastAnglia DrosophilaMating

SCHOOL OF BIOLOGICAL SCIENCES University of East Anglia, UK

Project: Mating gifts of *D. melanogaster* males: functions and fitness effects of male seminal fluid proteins

POST-DOCTORAL RESEARCH ASSOCIATE
FIXED TREM APPOINTMENT FOR 13 MONTHS

Salary: 26,402 GBP Ref: RA354

A BBSRC-funded post is available to work on the functions and fitness effects of male seminal fluid proteins in fruitflies, with Dr Tracey Chapman (<http://bioweb2.bio.uea.ac.uk/bioperson/facultyasp/-ChapmanT.aspx>) at the University of East Anglia. The post will be based full-time at UEA for a fixed term of 13 months and should start by early spring 2007.

Project summary: In many insects, mating induces striking changes in the behaviour and physiology of females. These post-mating responses (PMRs) of females are of interest because of their potential utility in insect pest control and because they appear to be subject to unusually strong natural selection. They therefore provide a unique model of adaptive evolution at the genetic level. In *D. melanogaster*, PMRs are caused by the transfer of accessory gland proteins (Acps). In addition to their effects on female receptivity and egg production, Acps also play a crucial role in sperm storage, mating plug formation and egg fertility. The aim

of this project is to investigate the fitness effects of specific Acps in large-scale assays. We have generated large numbers of Acp-deficient stocks and aim now to examine the fitness effects of the transfer of the Acps targeted in these Acp-deficient lines, determine which sex benefits from their transfer and test for functional redundancy between Acps. Some of the work is being done collaboratively with the Mariana Wolfner laboratory in Cornell.

Qualifications: You must have, or expect to be awarded within 6 months of appointment, a PhD (or equivalent) in a relevant discipline. Experience in working with fruitflies and in molecular genetic techniques is essential.

Informal enquiries can be made to Tracey Chapman (e-mail tracey.chapman@uea.ac.uk).

More information about the School of Biological Sciences UEA can be found at <http://www.uea.ac.uk/-bio/> Closing date: 12th Jan 2007 Interview date: Week beginning 12th Feb 2007

Further particulars and an application form can be obtained from the University's web page at:

<http://www.uea.ac.uk/hr/jobs/> or by email on hr@uea.ac.uk; or by calling the answerphone on + 44 (0)1603 593493; or by mail to the Human Resources Office, University of East Anglia, Norwich NR4 7TJ, UK. Please quote the appropriate reference code.

Tracey Chapman School of Biological Sciences University of East Anglia Norwich NR4 7TJ

Phone: 01603 593210 FAX: 01603 592250
Email: tracey.chapman@uea.ac.uk Web: <http://bioweb2.bio.uea.ac.uk/bioperson/facultyasp/-ChapmanT.aspx> b319 <Tracey.Chapman@uea.ac.uk>

UGeorgia EvolProkaryoticPlasmids

POSTDOCTORAL POSITION IN BIOINFORMATICS/EVOLUTION OF PROKARYOTIC PLASMIDS

We seek someone trained in computational biology to apply existing methods and devise novel methods for analysis of large bacterial and archaeal plasmids to be sequenced during a new 3-year NSF-funded project: "Mobilome Genomics: Large Plasmids of Diverse Prokaryotic Groups". Plasmids larger than 50 kb are major agents in the horizontal gene transfer driving evolution in prokaryotes. This project will greatly

expand sequence data and analyses for these ubiquitous mobile elements. Co-investigators on this project are experts in the biology of their target microorganisms, which range from animal and plant pathogens to microbes involved in global carbon and sulfur cycling. They and other faculty of the UGA Division of Biological Sciences, Institute of Bioinformatics, and Biomedical Health Sciences Institute have rich resources for computational and experimental analyses of organismal and mobile genomes. The University of Georgia is regularly ranked among the top US public research universities. Athens, GA, in the southeastern US piedmont, is a pleasant and modestly priced college town with lively music and arts scenes and great outdoor activities year 'round. The successful candidate will have mastered current tools for genome analysis (gene finding and annotation, motif finding, phylogenetic analyses, etc.), will have programming experience in Perl, Java and/or C in a Unix environment and will have experience in devising novel methods for analysis of biological data evidenced by authorship of publications in this area. Strong oral and written communication skills in English are also essential. The position can start as early as 1 Jan 2007. Please send as soon as possible to the address below an application including: (1) your curriculum vitae or resume'; (2) a cover letter describing what you could contribute to this project; (3) reprints of your relevant publications; and (4) contact information for 3 persons who can provide a balanced evaluation of your suitability for this position.

Anne O. Summers Department of Microbiology 527 Biological Sciences Building University of Georgia Athens, GA 30602-2605 summers@uga.edu

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Jessica Kissinger University of Georgia Center for Tropical & Emerging Global Diseases & Department of Genetics Paul D. Coverdell Center, Rm 335 500 D. W. Brooks Drive Athens, GA 30602-7394

TEL: +1 (706) 542-6562/6632 FAX: +1 (706) 542-3582
e-mail jkissing@uga.edu <http://mango.ctegd.uga.edu/-jkissingLab/> <http://www.ctegd.uga.edu/> PGP-Key: <http://www.arches.uga.edu/~jkissing/public-key.html>
Jessica Kissinger <jkissing@uga.edu>

ULaval QTLs

Description: Under the supervision of Drs Nathalie Isabel and Jean Beaulieu, researchers at the Canadian

Forest Service: - QTL data analyses to detect genes and or genomic regions involved in growth related-traits and adaptation in eastern white spruce (*Picea glauca*)
 - Conduct association study in natural populations to look for alleles/genes involved in growth and adaptation
 - Conduct association study in structured populations to look for alleles/genes involved in wood formation - Supervision of students and technical staff in related areas - Redaction and presentation of scientific papers and reports in referree journals and scientific conferences - The successful candidate will be expected to develop strong lines of communication and coordination of activities with group members at the Canadian Forest Service in Québec City, as well as with other participants in the project, principally at Université Laval and the University of Alberta

Qualifications: - Doctoral degree (Ph. D.) in population genetics or related field, or statistics applied to genetics, or QTL data analysis, and or related areas - Experience with computation methods - Experience in analysis of mixed-models - Very good verbal and written communication skills. - Demonstrated aptitudes for teamwork - Ability to work independently and to supervise - Ability to work in a predominantly French-speaking environment

Compensation and conditions: - Duration of contract: one year (renewable) - Salary range: NSERC (Visiting Fellowships in Canadian Government Laboratories) - Location of employment: Natural Resources Canada, Canadian Forest Service-Quebec (Quebec City, Canada) www.cfl.forestry.ca

Please send a resume, a description of research experience, and the names of three references before Jan 15, 2007 to: M. Pascal Poulin Pavillon Charles-Eugène-Marchand Université Laval Sainte-Foy, Québec, Qué G1K 7P4 E-mail : info@arborea.ulaval.ca

Pascal Poulin, MBA Project Manager - Arborea Project

Forest Biology Research Center Université Laval, Pavillon Marchand Québec, Qc., Canada G1K 7P4 418.656.2408 418.656.7493 (fax) www.arborea.ulaval.ca

ULaval.post-doc.QTL.& Association.Mapping Post-doctoral Fellowship Quantitative genetics and genomics Arborea is a tree genomics research project whose mission is to contribute to the durable development of forests through innovative solutions. Its multi-disciplinary research team develops tools for the genetic selection of trees, advances the discovery of new knowledge and helps to train young scientists. Through its promotion of excellence, Arborea will deliver scientific outputs and socio-economic benefits to the community, and position Canada as leading na-

tion in forest genomics. www.arborea.ulaval.ca pascal.poulin@rsvs.ulaval.ca

ULeeds ArthropodFeminisation

Jobs at University of Leeds <<http://www.jobs.ac.uk/-clients/83>> Research Fellow

Research Institute of Integrative and Comparative Biology

Faculty of Biological Sciences

Project 1: The cellular mechanisms of parasite-induced feminisation in arthropod hosts.

A NERC-BBSRC-funded postdoctoral post is available immediately, for up to three years, to investigate the cellular mechanisms of parasite-induced feminisation of arthropod hosts. Parasitic sex ratio distorters are widespread in invertebrate hosts. Vertically transmitted parasites are uniparentally inherited and selection to enhance the relative frequency of the transmitting sex has led to the evolution of a number of strategies of sex ratio distortion. Feminisation is induced by the bacterium *Wolbachia* in the Crustacea including *Armadillidium vulgare* and by microsporidia (eukaryote parasites) in the Crustacea including *Gammarus duebeni*. Whilst *Wolbachia* induces feminisation in Crustacea, in insects including *Drosophila bifasciata* it may cause male killing. We propose that these intracellular parasites are most likely to act by secreting molecules into the host cell which will then influence host molecular pathways, they may modify the response to external hormonal signals or even induce programmed cell death (apoptosis). Such changes could disrupt patterns of sexual development or lead to sex-specific embryo mortality.

This post is concerned with the cellular basis of *Wolbachia* and microsporidia induced feminisation. You will map parasite distribution during host sexual differentiation using in situ hybridisation and map patterns of apoptosis during development using TUNEL markers and investigate the impact of parasitism on host signalling through investigation of phosphorylation of host proteins.

A PhD in a relevant subject area and a strong research background in one of the following areas; cell or developmental biology, molecular parasitology, or mechanisms of sex ratio distortion are essential as is the ability to work independently. You must also be able to use

software for image analysis, word processing, spreadsheet and data analysis, give presentations and exhibit effective practical skills at the laboratory bench.

University Grade 6 (£20,842 - £25,633) or Grade 7 (£26,402 - £28,010 p.a) depending upon experience

Informal enquiries to Dr Alison M. Dunn, tel 0113 343 2856, email a.dunn@leeds.ac.uk <<mailto:a.dunn@leeds.ac.uk>> or Professor Judith E. Smith, tel 0113 343 2892, email j.e.smith@leeds.ac.uk <<mailto:j.e.smith@leeds.ac.uk>>

To apply on line please visit <http://www.leeds.ac.uk> <<http://www.leeds.ac.uk>> and click on 'jobs'. Alternatively application packs are available from Mr A. Bateman, tel 0113 343 8040, email fbsjobs@leeds.ac.uk <<mailto:fbsjobs@leeds.ac.uk>> Faculty Staff Recruitment Office

Job ref 313128

Closing date 01 January 2007

Project 2: A second post-doctoral post on this project is available at the University of Wales Bangor to work on Wolbachia. The work will involve a proteomics approach as well as the manipulation of cell cultures. For more details on this related post please email h.braig@bangor.ac.uk <<mailto:h.braig@bangor.ac.uk>>

Alison Dunn <A.Dunn@leeds.ac.uk>

ULeeds ArthropodFeminisation

Please could this advert go out to evodir, thanks Alison Dunn Jobs at University of Leeds <<http://www.jobs.ac.uk/clients/83>> Research Fellow

Research Institute of Integrative and Comparative Biology

Faculty of Biological Sciences

Project 1: The cellular mechanisms of parasite-induced feminisation in arthropod hosts.

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A PhD in a relevant subject area and a strong research background in one of the following areas; cell or developmental biology, molecular parasitology, or mechanisms of sex ratio distortion are essential as is the ability to work independently. You must also be able to use software for image analysis, word processing, spreadsheet and data analysis, give presentations and exhibit effective practical skills at the laboratory bench.

University Grade 6 (£20,842 - £25,633) or Grade 7 (£26,402 - £28,010 p.a) depending upon experience

Informal enquiries to Dr Alison M. Dunn, tel 0113 343 2856, email a.dunn@leeds.ac.uk <<mailto:a.dunn@leeds.ac.uk>> or Professor Judith E. Smith, tel 0113 343 2892, email j.e.smith@leeds.ac.uk <<mailto:j.e.smith@leeds.ac.uk>>

To apply on line please visit <http://www.leeds.ac.uk> <<http://www.leeds.ac.uk>> and click on 'jobs'. Alternatively application packs are available from Mr A. Bateman, tel 0113 343 8040, email fbsjobs@leeds.ac.uk <<mailto:fbsjobs@leeds.ac.uk>> Faculty Staff Recruitment Office

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Alison Dunn <A.Dunn@leeds.ac.uk>

UNorthCarolinaChapelHill Models of Evol

Postdoctoral Position at the University of North Carolina, Chapel Hill

Mathematical models of evolution, sexual selection, speciation

A position is available for a Postdoctoral Research Associate in the lab of Maria Servedio at the University of North Carolina, Chapel Hill. The successful applicant should have an interest in speciation, sexual selection, behavioral ecology, and evolution. Prior experience with theoretical techniques and a strong mathematical background is highly preferred. A Ph.D. is required. The applicant will be expected to develop an independent research project in addition to collaborating with the PI on theoretical projects. Examples of prior projects in the lab are described in brief on the webpage <http://www.bio.unc.edu/faculty/servedio/Lab/index.htm>. The appointment is for 1-2 years starting preferably in July 2007 (start date somewhat flexible). Send applications including a CV, description of research experience and interests, description of background in theory and related skills, and names and addresses of three references to

Maria Servedio Department of Biology University of North Carolina CB# 3280, Coker Hall Chapel Hill, NC 27599 or by e-mail to: servedio@email.unc.edu

Informal inquiries welcome by e-mail. Review of applications will begin on January 30 and continue until the position is filled.

Dr. Maria Servedio Department of Biology University of North Carolina CB# 3280, Coker Hall Chapel Hill, NC 27599 Phone: 919-843-2692 Fax: 919-962-1625 e-mail: servedio@email.unc.edu <http://www.bio.unc.edu/faculty/servedio/Lab/index.htm>
servedio@email.unc.edu servedio@email.unc.edu

UParis PigeonPopGenet

Postdoc opportunity: population genetics of urban pi-

geons

A one year post-doctoral position is available in the Ecology, Systematic and Evolution laboratory of University Paris 11 (located in the suburb of Paris, France), to work on the population genetics of urban pigeons.

The subject proposed to the postdoc is part of a bigger project on urban biodiversity. One of the main goals of conservation biology is to study Human-Nature relationships, in order to allow sustainable development and biodiversity conservation. Feral urban pigeons represent a very good model in this context, since the presence of pigeons in cities is depending on different civic actors defending opposite arguments for and against pigeon's presence. Pigeons breeding structures (with abundant food but where reproduction is controlled), installed in many urban cities as a management and mediation response, offer an interesting design to answer both biological and social questions. We are studying how these breeding structures modify urban pigeon's population dynamics and selective pressures on this species and how these structures influence citizen perceptions about pigeons. The postdoc is expected to work in the following areas : (i) Determination of the population structure of urban pigeons using microsatellites and comparison of the variability of urban pigeons with those of the remaining wild birds, (ii) study of the influence of urban habitat heterogeneity (e.g. in terms of resource availability, level of pollution and parasite loads on neutral (microsatellite) and non neutral (major histocompatibility complex) genetic variability.

We are looking for someone with a background in experimental population genetics and interests in conservation biology. Some knowledge of French would be helpful but is not mandatory. The position is for one year and must start around February 2007. Salary is 21 000 euros /year (1750/month; including social security).

E-mail inquiries are welcome to Emmanuelle Baudry. Applications (preferably by e-mail) should include cover letter, CV, names and contact info for 2 references,

Emmanuelle Baudry CNRS-UMR 8079 Ecologie, Systematique et Evolution Université Paris-Sud, Bat 362 91405 Orsay Cedex France Tel: +33 1 69 15 56 91 Fax: +33 1 69 15 56 96 email: emmanuelle.baudry@u-psud.fr

<http://www.esse.u-psud.fr/conservation/ecologie-urbaine/pigeon/index.html> Emmanuelle Baudry
<Emmanuelle.Baudry@ese.u-psud.fr>

UParisSudXI Barcoding

Postdoctoral fellowship on Classification methods for DNA barcoding.

DNA Barcoding consists in assigning an individual to a given species according to the sequence of this individual at a given locus (for the animals, often a fraction of the COI mitochondrial DNA gene). The technique consists first in sequencing a sample of reference individuals for which the taxonomic status is unambiguous. This reference sample is then used as a training data set for a classification algorithm, which aims at assigning newly sampled individuals to a given species on the basis of their DNA sequence only.

The postdoctoral fellow will work in particular in the development and comparison of the efficiency of various classification algorithms in this context. These algorithms include classical phylogenetic methods (e.g. neighbour joining, maximum likelihood), statistical classification methods (e.g. CART, Random Forest, neural networks, kernel and SVM methods) and coalescent-based methods. Methods that take advantage of recent advances in statistical learning and inference, and in population genetics will be favoured in particular. The comparisons will be carried out on simulated data sets and also on well-characterized experimental data sets. In particular, the impact on the efficiency of the different methods of events like gene flow between species or population expansions will be investigated. The contribution of additional information at nuclear loci will also be considered. Finally the question of the detection of new species might also be addressed.

The position is opened for one year with a possibility of renewal for a second year. It should start in March 2007. The salary will be around 1800 euros/month. The postdoctoral fellow will be mainly located at the Unite Mathematiques et Informatique Appliquees of the INRA - Jouy-en-Josas, near Paris, in strong interactions with two other laboratories (see below). A strong background in mathematics, statistics and computer science is requested for this position. An experience in interacting with biologists, especially population geneticists, will be a plus.

Interested candidates are invited to submit by email to C. Laredo and F. Austerlitz (see addresses below) the following elements.

- a CV with a list of publications - two or three relevant publications - an application letter - the names and e-mail addresses of three referees.

Supervisors:

Catherine Laredo, INRA, Unite Mathematiques et Informatique Appliquees, Centre de Recherche de Jouy-en-Josas, F-78352 JOUY-EN-JOSAS, France. Tel : +33 1 34 65 22 26, FAX : +33 1 34 65 22 17, Email: Catherine.Laredo@jouy.inra.fr <http://w3.jouy.inra.fr/unites/miaj/index.php3> and Laboratoire Probabilites et modeles Aleatoires, UMR 7599, Universites Paris VI et VII, 75013 Paris, France

Frederic Austerlitz, Laboratoire Ecologie, Systematique et Evolution, U.M.R. C.N.R.S./U.P.S./E.N.G.R.E.F. 8079, Universite Paris-Sud XI, Bâtiment 360, F-91405 Orsay cedex, France. tel: + 33 1 69 15 77 20, fax: + 33 1 69 15 46 97, email: Frederic.Austerlitz@u-psud.fr <http://www.esse.u-psud.fr/> Collaborators:

Olivier David (INRA, Unite Mathematiques et Informatique Appliquees)

Brigitte Schaeffer (INRA, Unite Mathematiques et Informatique Appliquees)

Michel Veuille (Departement Systematique et Evolution, Museum National d'Histoire Naturelle, Paris)

Raphael Leblois (Departement Systematique et Evolution, Museum National d'Histoire Naturelle, Paris)

Frederic.Austerlitz@u-psud.fr

UPoitiers ULyon INSA Lyon ArthropodSymbiosis

Three Postdoctoral positions available at the University of Poitiers, University of Lyon and INSA Lyon, (France)

As part of the ANR-funded ENDOSYMBART "Endosymbiosis in Arthropods", postdoctoral positions are available immediately, each for 18 months, to investigate the symbiosis in arthropod hosts. The ENDOSYMBART project is linked to a Genoscope-funded project Immune Genomics in Invertebrate Endosymbiosis.

Arthropod-symbiont associations are of worldwide importance in agriculture and public health and constitute an ideal group for investigating functional bases of host-symbiont interactions in an evolutionary per-

spective. Nutritional symbiosis in insects is studied worldwide and genomic data on these systems have provided the foundation of the theory of evolution of intracellular bacteria. More recently, increasing interest in arthropod symbiosis arose from the discovery that various and frequent bacteria are able to manipulate the reproduction of their hosts (e.g. *Wolbachia*), challenging classical theories on the evolution of host-symbiont relationships, and opening avenue for developing new control method of arthropod pests and vectors. The ENDOSYMBART project goal is to decipher the genetic, cellular and molecular bases governing the dynamics and evolution of symbiosis using a comparative approach between three model systems: nutritional symbiosis of recent origin, between the weevil *Sitophilus oryzae* and its symbiont SOPE; recent transition towards mutualism in the association between an hymenopteran wasp and *Wolbachia* that is necessary for oogenesis completion; and reproductive manipulation through feminization of genetic crustacean isopod males by *Wolbachia*. These are full-time 18 months positions that will open in January 2007. Salary is around 2000 euros/month. The 3 projects are linked and the candidates will interact with other members of the ENDOSYMBART consortium.

Project 1: Library constructions and bacterial gene expression. UMR6556 University of Poitiers. This post is concerned with cDNA and SSH library constructions from symbiotic and aposymbiotic organs of the three models. The resulting ESTs provided by the Genoscope (National Sequencing Center) will be analyzed by the candidate. Furthermore, comparative analysis of bacterial (*Wolbachia* and SOPE) candidate gene expression will be performed to investigate the impact of symbionts on the induced phenotypes. A PhD in a relevant subject area and a strong research background in cDNA library construction, gene expression and molecular parasitology are essential as the ability to work independently. He (she) will be assisted in his work by two half-time technicians and will work with a PhD student. Please send a CV, names and contact information of three references to Pr D. Bouchon, tel. +33 (0)549 45 38 95, email didier.bouchon@univ-poitiers.fr. For more please visit <http://labo.univ-poitiers.fr/umr6556>

Project 2: Bacterial genome dynamics in experimental evolution UMR 5557 Lyon University. The applicant will be in charge of establishing cell line models for three symbionts (SOPE and *Wolbachia* strains described above) and analysing bacterial genome rearrangements and gene expression in cellula. Different naïve insect cell lines are available and the bacteria purified from the host tissues will be used for infection. Based on the analyses of bacterial whole

genome sequences, repeated elements (including IS) will be identified and rearrangements events predicted. Experimental evolution coupled with PCR strategies and DNA sequencing will be conducted to search for genome rearrangements and associated expression patterns. The PhD candidate should have a strong knowledge on molecular and cellular biology with experience in *in vitro* cellular model. He (she) will have a technical assistance and a commitment to working in collaboration with other members of the team analyzing the dynamics of microbial-host interactions. To apply, please send a CV, names and contact information of three references to Dr Patrick Mavingui, tel. +33 (0)472 43 11 43, email mavingui@biomserv.univ-lyon1.fr. For more please visit <http://ecomicro.univ-lyon1.fr/> Project 3: Heterolog gene expression and protein analysis UMR0203 INSA Lyon. The post-doctoral research program aims to studying the function of genes involved in host-symbiont interaction of the three associations described above. Several immune related genes are available (including PGRP, Tollip and antibacterial peptides) and additional genes will be provided by cDNA and SSH library sequencing at the Genoscope (see project 1). Gene functional study will use complementary approaches such as heterolog gene expression (both in bacteria and baculovirus systems), biochemical protein characterisation and RNA interference.

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URennes PlantBiodiversity

2 year postdoc position on Diversification of Plant Lineages within Habitats

-> At University of Rennes 1, France; Institute "Ecosystems, Biodiversity, Evolution"; Group "Ecology of Diversification" (Andreas Prinzing)

-> From beginning of next year, latest early spring. Position is given for one year, renewable, without problems, for one year. (Review of applications starting JANUARY 7.)

-> The project:

The major hypothesis for the project is that habitat types drive evolutionary diversification of plant lin-

eages.

Most evolutionary biologists have a hierarchical view of local species communities: Communities are assembled from a regional pool of already-evolved species via a habitat filter acting on already-evolved traits. In our project we will explore the opposite view: whether and how the ecological conditions within different types of habitats may affect the pattern and pace of evolutionary diversification of phylogenetic lineages across geological time scales. We particularly account for effects of habitats on genetic variation, divisions of gene pools, and local persistence of genetic isolates. We are especially interested in effects mediated by genomic and life history traits of the species. This research will allow us to explore how mechanisms of diversification depend on the ecological context.

The major methodological approach is the analysis of databases on the phylogeny, habitat use, co-existence and life history of central European plant species, in order to reconstruct ancestral habitats, traits and how they triggered the pace and pattern of evolution. We aim for collecting additional information on the genome size of species, a still under-recorded trait linked to both environment and diversification.

-> Eligible are holders of a PHD except French citizens (constraint imposed by the funding agency)

-> Characters of the ideal candidate (declining from essential to preferred):

- competencies in using phylogenies as a tool to study for instance the role of species traits or environments on the evolution of lineages (not to be confused with phylogeny reconstruction or with phylogenetically independent comparative analyses)

- competencies in the analysis of patterns in phylogenetic trees (e.g. diversification rates, directional evolution of traits, character reconstruction, randomness/symmetry/asymmetry in branching patterns)

- strong publication record

- programming capabilities for instance for null modeling

- willingness to do field work such as sampling plant species for genome size investigation (done by an external lab), but also to spend lots of time on data base mining and statistical modelling

- general knowledge of habitat types and their vegetation, of Angiosperm phylogeny, of palaeo-environments throughout the evolution of Angiosperms, and of Angiosperm life history

- strong overall statistical skills

- ability to work independently; contribute to discussion on research of others; respect (for most of the time) the constraints of a general theme predefined by a research proposal

-> Research environment:

The host institution is the Research Unit "Ecosystems, Biodiversity, Evolution", co-funded by University of Rennes 1 and Centre National de la Recherche Scientifique, harboring 58 researchers and teachers. Several further research institutions in ecology and evolutionary biology exist at Rennes. Our Research Group within the Research Units works among others on phylogenetic community assembly, diversification of plant phenotypes along climatic gradients, and the diversity of arthropods in tree canopies. See <http://ecobio.univ-rennes1.fr> <<http://ecobio.univ-rennes1.fr> and http://ecobio.univ-rennes1.fr/Fiches_perso/Banque/publi1_APrinzing.doc

-> What, if anything, is Rennes, France?

Rennes has approximately 200 000 inhabitants (25 % students) and is the political and cultural capital of the Bretagne region with exceptional coastal and mainland landscapes, and a french-celtic heritage (http://www.region-bretagne.fr/-CRB/Public/rubriques_thematique/visiter_la_bretagne/la_bretagne_une_reg/la_bretagne_en_image/). If needed, English is spoken everywhere in academia, but not always outside. Like in any French city, child care is excellent (almost for free, no waiting list, nearby).

-> Salary: Depends on your experience, but the minimum is 2200 Euros gross salary per month, which translates into approximately 1760 Euros (1 Euro 1.23 Dollars, 2 bedroom apartments are available at 500 Euros / month, all inclusive). Work permits are granted for Europeans (well, those within the

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UReunion 2 ComparativePhyloGeography

TWO POSTDOCTORAL POSITIONS IN COMPARATIVE PHYLOGEOGRAPHY AT THE UNIVERSITY OF REUNION

We seek two broadly-trained and enthusiastic researchers to join our collaborative study of the phylogeographic history and patterns of diversification in a variety of marine and terrestrial taxa that occur across the southwestern Indian Ocean biodiversity hotspot region (i.e. Madagascar, Mascarenes, Comoros, Seychelles).

The two postdoctoral positions are funded by ANR for 2.5 yr in the labs of H. Bruggemann and D. Strasberg at the University of Reunion. Successful applicants will also work closely with collaborators elsewhere in France (M.L. Cariou at CNRS Gif s/Yvette, E. Paradis at IRD Montpellier, S. Planes at University of Perpignan, and C. Thebaud at University of Toulouse), the UK (B. Emerson at Univ. East Anglia), and the USA (G. Paulay, Florida NH Museum). The targeted starting date is May, 1st 2007.

Candidates must be experienced in DNA sequencing and phylogenetic/phylogeographical analyses, preferably with additional experience in comparative phylogenetics and/or approaches using phylogenies to test macro-evolutionary models. They must have the capacity and willingness to conduct field work at remote sites. Candidates with experience in a wide variety of sampling methods, specimen preparation and taxonomy of marine invertebrates, insects, land snails, and/or plants will be favoured. The choice of taxa to be studied will be governed by available resources and systematics support and will be decided at a meeting early 2007, but we expect one of the researchers to deal with marine organisms, and the other with terrestrial ones. The marine candidate also needs to be comfortable in the water, ideally a qualified and experienced SCUBA diver.

Informal inquiries as well as applications (including a letter detailing your experience, a full CV, pdfs of your most significant publications, and the names, addresses, phone numbers and email addresses of at least two references who know your work and abilities) should be emailed to Pr. Henrich Bruggemann (henrich.bruggemann@univ-reunion.fr) or Pr. Dominique Strasberg (dominique.strasberg@univ-reunion.fr).

thebaud@cict.fr thebaud@cict.fr

UWashington HumanEvolGenetics

A postdoctoral position is available in the research group of Joshua Akey in the Department of Genome Sciences at the University of Washington.

The specific research project is flexible and can be tailored to the background and interests of the individual, but will fall under the broad purview of human evolutionary genomics. Areas of active interest in the Akey lab include inferring population demographic history, identifying genomic regions that have been targets of adaptive evolution, understanding geographic patterns of selected alleles and haplotypes, and correlating adaptive genetic variation with phenotypic variation and disease susceptibility. The ideal candidate will have a strong background in population genetics or in relevant areas of mathematics and statistics, demonstrated computational skills, and be self-motivated and independent.

The Department of Genome Sciences (<http://www.gs.washington.edu/>) offers an outstanding intellectual environment. Research in the department addresses questions in biology and medicine by developing and applying genetic, genomic, and computational approaches that take advantage of genomic information. Departmental faculty are exceptionally distinguished and include eight members of the National Academy of Sciences and one Nobel laureate. In November 2006 the entire department moved to the newly constructed state of the art Foege Building.

Informal inquiries as well as applications (including a CV and three letters of recommendation) should be emailed to Joshua Akey (akeyj@u.washington.edu).

Joshua Akey Department of Genome Sciences University of Washington Foege Building / Box 355065 1705 NE Pacific St Seattle WA 98195-5065 Phone: 1 206 543 7254

Joshua Akey Department of Genome Sciences University of Washington Box 357730, HSB J-279 Seattle, WA. 98195-7730 Phone: (206) 543-7254 akeyj@u.washington.edu

WorkshopsCourses

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BodegaMarineLab AppliedPhylogenetics Mar3-10

UC Davis

WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California

March 3-10, 2007

sponsored by the

Center for Biosystematics and Bodega Marine Laboratory,

University of California, Davis

<http://ginger.ucdavis.edu/sandlab/ap.htm> Introduction. Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, playing an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecosystems. The construction of phylogenetic trees is becoming a methodology that is well-defined, with broad agreement on the central issues and questions. A nearly standard set of topics is now taught as part of the curriculum at many colleges and universities. On the other hand, applications of phylogenetic methods to interesting problems outside of systematics is an area of special excitement, innovation, and controversy, and perspectives vary widely.

In March, 2007, for the eighth year, we will teach a workshop for graduate students interested in applying phylogenetic methods to diverse topics in biology. The one-week course will be an intensive exploration of problems to which modern phylogenetic tools are being applied, including topics in biogeography, ecology, conservation biology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. The course leads off with recent advances in phylogenetic methodology, and then turns to methods and

tools that can be brought to bear to address these “applied” issues in the context of a given phylogeny.

The course will be held entirely at Bodega Marine Lab on the Northern California coast, which has extensive computing resources and on-site housing. The course format will involve equal parts of lecture, discussion, and training in software and internet tools. One afternoon during the week will be left free for field trips to local natural areas.

Specific Topics to be Covered

* Finding, evaluating and interpreting phylogenetic trees; phylogenetic databases * Recent advances in tree reconstruction: Bayesian inference; stochastic optimization strategies; divide-and-conquer methods * Analysis of character evolution–theory: parsimony, likelihood and Bayesian approaches; null models and statistical testing * Analysis of character evolution–form and function of complex character systems * Phylogenetic biogeography and phylogeography; coalescent methods for inferring migration rates and patterns * Phylogenetic comparative methods * Phylogenetic perspectives on biodiversity and conservation biology * Data mining of sequence databases for phylogenetic analysis * Estimation of divergence times from sequence data

Instructors for the workshop.

* Dr. H. Bradley Shaffer * Dr. Michael Sanderson * Dr. Peter Wainwright * Dr. Tom Near * Dr. Shelley McMahon * Dr. Bruce Rannala * Dr. Jonathan Eisen * Dr. Rich Glor * Brian O’Meara * Dr. Phil Spinks

Prerequisites. Students should have some familiarity with phylogenetic methods through previous coursework. Some experience with PAUP, PHYLIP, or other programs for phylogeny reconstruction will be assumed.

Admission and Fees. Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is \$400. This includes room and board at BML for duration of the course (arriving March 3, leaving March 10).

Application Deadline. Applications are due by Jan-

uary 1, 2007. Please send a completed application form (available from <http://ginger.ucdavis.edu/sandlab/apappl.htm>), and one letter of recommendation from your major advisor. We encourage applications to be sent via email as PDFs to pqspinks@ucdavis.edu. Sorry, but due to the limited size of the class, postdocs and faculty are discouraged from applying. Students will be notified via e-mail by January 15 of acceptance.

Send all application materials to

Dr. Phillip Q. Spinks Section of Evolution and Ecology
2320 Storer Hall University of California Davis Davis,
CA 95616 email: pqspinks@ucdavis.edu

pqspinks@ucdavis.edu

PuertoMontt Chile AquaticBiodiversity Jan17-19

WORKSHOP Darwin Initiative. First International Workshop Evolutionary Impact of Exotic Aquaculture on Native Aquatic Biodiversity Puerto Montt (Chile) - 17-19 January 2007 More information on <http://www.imcom.cl/mailling/mailling5.htm> Deadline: 31 December 2006

1. Venue Hotel La Peninsula, Puerto Montt <http://www.hotellapeninsula.cl/> Tel. (56-65)-260800 . Fax:(56-65)-431717. Booking: reservas@hotellapeninsula.cl

2. Aim Aquaculture in Chile is a large-scale, emerging industry based chiefly on the culture of exotic species in some of the most pristine and environmentally sensitive aquatic ecosystems in the world. Yet, exotic species can have a major impact on native biodiversity, and sound scientific information is needed to help farm managers and policy makers take appropriate decisions designed

to protect natural resources and a valuable industry. This workshop aims to bridge the gap for sustainable aquaculture by exploring ways of monitoring and reducing damage to native aquatic ecosystems.

3. Structure of the workshop The workshop will consist of four major components: i) scientific meeting (scientific panel - 15 Jan); ii) meeting with stakeholders - 16 Jan ; iii) open conference (17-19 Jan 2007: series of public lectures and oral presentations on “Evolutionary Impact and mitigation of exotic aquaculture on native species”) iv) Excursion and field trip (20-21 January).

4. Scientific Committee Conveners: Dr. Gonzalo Gajardo (University of Los Lagos, Chile), Dr. Francisco Orellana (University of Los Lagos, Chile), and Dr. Carlos Garcia de Leaniz (University of Wales Swansea, UK)

Prof. John Beardmore ((University of Wales Swansea, UK) Prof. Fred Allendorf (Victoria University of Wellington, New Zealand) Dr. Guillermo Giannico (Oregon State University, USA) Dr. Jason Dunham (US Geological Survey, USA) Dr. John Volpe (University of Victoria, Canada) Dr. David Carss (Centre for Ecology and Hydrology, UK) Dr. Sofia Consuegra (University of Wales Swansea, UK)

5. Registration and contact information Registration for the open conferences is free, on a first come, first served basis. Online registration for conference attendance: <http://www.initiative.imcom.cl/open.html> 6. Oral presentations and contributions Send us a title and 250 word abstract using the online registration form for presentations before Dec 31st 2006: <http://www.initiative.imcom.cl/inscripcion.html> 7. Contact information: Dr. Gonzalo Gajardo (ggajardo@ulagos.cl) Dr. Carlos Garcia de Leaniz (c.garciadeleaniz@swansea.ac.uk)

Dr. Carlos Garcia de Leaniz University of Wales Swansea Biological Sciences Singleton Park, SA2 8PP Swansea, UK Tel. +44 (0) 1792 295383 Fax. +44 (0) 1792 295447 email. c.garciadeleaniz@swansea.ac.uk Darwin Initiative www.biodiversity.cl “GarciaDeLeaniz C.” <C.GarciaDeLeaniz@swansea.ac.uk>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral

positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvoDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvoDir direct them to the email `evol.dir@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 sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterward

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