E v o l D i r

October 1, 2009

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

Foreword

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

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

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

—— / ——

Foreword 1

Conferences 2

GradStudentPositions 13

Jobs 36

Other 58

PostDocs 70

WorkshopsCourses 96

Instructions 103

Afterword 103

Conferences

AnnArborMI SexDifferences Jun3-5 2
Dahlonega Georgia SEPEEG Oct16-18 2
GeorgiaTech Bioinformatics Nov12-14 3
Girona Spain SpongeEvolution Sep20-24 3
IndianaUniversity EvoDevoGenomics 4
KansasCity EvolutionaryGenomics Nov13-15 Student-Travel 4
KansasCity StudentTravelFellowships Nov13-15 5
Lisbon EvolutionaryBiology Dec21 6
London Evolution Sept14 6
London Evolution Sept14 2 7
Manchester CommunityGenetics Jan7-8 7
Mexico AncientDNA Sept24-25 8
MexicoCity BarcodeOfLife Nov7-12 Reminder 8
MexicoCity DNA Barcode Nov7-13 Registration 3 ..9
MexicoCity DNA Barcode Nov7-13 RegistrationExt 4 9
NHM London YoungSystematists Dec2 10
Rome MolAnthroGenomics Dec3-5 10
Roscoff France FungalEvolution Apr17-21 11
SussexU SocialInsectEvolution Nov26-27 12
UCaliforniaBerkeley WesternEvolBiol Dec5 12
ULisbon DarwinsMathLegacy Nov23-24 12
UNebraskaLincoln BIOT2009 Oct9-11 Travel 4 12
UParis-Diderot HumanEvolution Oct22-23 13

AnnArborMI SexDifferences Jun3-5

The Organization for the Study of Sex Differences (www.ossdweb.org) is convening its 4th Annual Meeting from June 3-5, 2010 in Ann Arbor, MI. The 2010 agenda includes Timothy Bestor, PhD as the Keynote Lecturer and Margaret McCarthy, PhD as the Capstone Lecturer. The remainder of the program includes 2 poster sessions and 7 symposia of the following topics: Evolution and Mortality; Sexually Differentiated Responses and Estrogen Receptors; Mental Health; Respiratory Distress Syndrome and Antenatal Steroids; Pain, Its Treatment, and the Influence of Sex; and Oxidative Stress, Non-reproductive Cancers, and Longevity. Visit www.ossdweb.org to view the full agenda and register. Contact Viviana Simon, Ph.D. (viviana@ossdweb.org) for additional information.

Karen Aus Intern, Scientific Affairs OSSD 1025 Connecticut Avenue NW, Suite 701 Washington, DC 20036 Website: http://www.ossdweb.org Email: Karen@OSSDweb.org

Karen Aus <Karen@ossdweb.org>

Dahlonega Georgia SEPEEG Oct16-18

Subject: 2009 SEPEEG Conference in Dahlonega, GA - three days to register!

Text: The 2009 SouthEastern Population Ecology and Evolutionary Genetics (SEPEEG) meeting will take place October 16th - 18th at the beautiful Wahsega 4H Center near Dahlonega, GA (http://www.georgia4h.org/public/ facilities/wahsega/default.htm). Mark your calendars! Keeping with the tradition of SEPEEG, the 2009 meeting will be informal and accommodations will be on the rustic side. Talk and poster submissions are encouraged from undergrads, grad students, post-docs, and faculty. The keynote speaker will be Les Real from the Emory University.

Early registration is now open through October 2nd on our official conference website: http://-www.sepeeg.com/, and the low registration fee of $130 can be paid using PayPal.

The meeting organizers are Nicole Gerardo and Todd

Schlenke, and the Emory University PBEE Program. Please contact any of us with questions at sepeeg2009@gmail.com. We hope to see you there! Todd

Todd Schlenke Department of Biology Emory University Atlanta, GA 30322 phone: 404-727-0817 fax: 404-727-2880

Todd Schlenke <tschlen@emory.edu>

GeorgiaTech Bioinformatics Nov12-14

The 7th Georgia Tech - ORNL Conference on Bioinformatics - In silico Biology: Genome Biology and Bioinformatics will be held in Atlanta, Georgia, November 12-14, 2009 http://www2.isye.gatech.edu/binf2009/ Georgia Tech continues the tradition of organizing bi-annual International Conference on Bioinformatics, bringing together leading researchers in genomics, bioinformatics and genome biology to present recent advances in the field and to discuss open problems.

Important Dates

Deadline for early registration: October 15, 2009 Deadline for poster abstract subsmission: October 1, 2009 Notification of acceptance of abstracts: October 11, 2009

We invite papers submissions in the following areas * genomics * transcriptomics * proteomics * reconstruction and modeling of gene networks * evolutionary biology

SPEAKERS

Margaret O. Dayhoff lecture:

David Lipman , NCBI/NIH, Bethesda, MD, USA

Plenary Speakers:

Vineet Bafna, University of California at San Diego, USA Gill Bejerano, Stanford University, Stanford, CA, USA Jeffrey Bennetzen, University of Georgia, Athens, GA, USA Mark Borodovsky, Georgia Tech and Emory University, Atlanta, GA, USA Nick Grishin, University of Texas, Dallas, TX, USA Curtis Huttenhower, Harvard University, Boston, MA, USA King Jordan, Georgia Tech, Atlanta, GA, USA Igor Jouline (Zhulin), University of Tennessee - ORNL, Oak Ridge, TN, USA Eugene Koonin, NCBI/NIH, Bethesda, MD, USA Nikos Kyrpides, DOE Joint Genome Institute, Walnut Creek, CA, USA Boris Lenhard, University of Bergen, Norway Jian Ma, University of Illinois at Urbana Champaign, Urbana, IL, USA Yael Mandel-Gutfreund, Technion, Israel Insitute of Technology, Haifa, Israel Joanna Masel, University of Arizona, Tucson, AZ, USA Andrey Mironov, Moscow State University, Russia Andrei Osterman, Burnham Institute for Medical Research, La Jolla, CA USA Karen Nelson, J. Craig Venter Institute, Rockville, MD, USA Natasa Przulj, University of California at Irvine, CA, USA John Reinitz, State Uiversity of New York at Stony Brook, NY, USA Pierre Rouze, Gent University, Gent, Belgium

CONFERENCE CHAIRS Mark Borodovsky, Georgia Tech and Emory University Eva K. Lee, Georgia Tech and Emory University

PROGRAM COMMITTEE Nicholas Bergman, Georgia Tech Dmitrij Frishman, Technische Universitaet Muenchen, Germany Andrey Gorin, Oak Ridge National Laboratory Andrzej M. Kierzek, University of Surrey, UK. Eileen Kraemer, University of Georgia Jun Liu, Harvard University Hannah Margalit, Hebrew University Andrey Rzhetsky, University of Chicago Andre Rogatko, Samuel Oschin Comprehensive Cancer Institute Gary Stormo, Washington University Lance Waller, Emory University Ying Xu, University of Georgia and Oak Ridge National Laboratory Soojin Yi, Georgia Tech Igor Zhulin, Oak Ridge National Laboratory and University of Tennessee

ADMINISTRATION Harry Sharp, Georgia Tech

CONFERENCE LOCATION

The Georgia Tech Ferst Center for the Arts. The Georgia Tech campus is located in Midtown Atlanta near the center of the 1996 Olympic development, close to the Fox Theatre and Margaret Mitchell house.

Georgia Tech Conference Announcement <conf@topaz.gatech.edu>

Girona Spain SpongeEvolution Sep20-24

Dear Evoldir members

The website of the VIII International Sponge Conference (Girona, 20-24 September, 2010, Catalonia, Spain) is set up and working:

http://www.spongeconference2010.org/ There will be an special topic on evolution and phylogeny of sponges,

so those of you interested are cordially invited to register at the Conference. The first deadline for reduced fees is December 30, 2009.

You can also prepare and send your abstracts through the webpage, the deadline is February 15, 2010.

We hope to see many of you in Girona!

On behalf of the Organizing Committee

–

Xavier Turon Dept. of Aquatic Ecology Center for Advanced Studies of Blanes (CEAB, CSIC) Accés a la Cala S. Francesc 14 17300 Blanes (Girona) Spain

E-mail: xturon@ceab.csic.es Phone: +34 972 336101 Fax: +34 972 337806 http://www.ceab.csic.es/ http://www.ub.edu/beb/english/invertebrates/-turon/turon.htm xturon@ceab.csic.es

IndianaUniversity EvoDevoGenomics

IU/UO November 2009 Symposium

Current Frontiers in the Integration of Evolution, Development, and Genomics

November 13-15, 2009

The Evolution, Development and Genomics NSF IGERT trainees of Indiana University and the University of Oregon cordially invite you to our annual graduate student organized symposium, titled Current Frontiers in the Integration of Evolution, Development, and Genomics. Past symposia have focused on specific areas of inquiry within this maturing, integrative field: gene duplication, evolution of gene regulation, evolution of gene networks, the origin of novel features, and bridging macro- and micro-evolutionary concepts. The upcoming symposium will focus on what has been gleaned from this integrative approach to biological research. Specifically, a broad array of notable invited scientists will speak in sessions focusing on the integration of Evolution with Development, Development with Genomics, or Evolution with Genomics.

We anticipate our attendance will facilitate stimulating interactions with top researchers, as has been the case in our past IGERT symposia. We thoroughly encourage attendees to present their work at the Saturday evening poster session.

This symposium will be held November 13th to 15th (Friday evening through Sunday morning) at the Bloomington campus of Indiana University. PZ Myers will open our symposium with a keynote lecture, followed by an opening reception on Friday. The symposium continues on Saturday with a full day of invited talks focusing on "Evolution and Development" and "Development and Genomics," followed by a poster session and banquet in the evening. We conclude on the 15th with a final morning session on "Evolution and Genomics" and closing remarks.

Registration is $75 for graduate students and $150 for faculty and post-docs. After October 15, 2009, a $25 late fee will be added to the registration fee.

For further registration, accommodation, and speaker schedule information, please refer to the IU/UO IGERT Symposium website at http://www.bio.indiana.edu/-~igert/symposium/index.htm or contact

igertfellows-l@indiana.edu.

Speakers: Annie Schmitt - Brown University

Artyom Kopp - UC Davis

Carlos Bustamante - Cornell University

Chuck Kimmel - University of Oregon

David Baum - University of Wisconsin

Eddy Rubin - Joint Genome Institute

Howard Ochman - University of Arizona

Jason Wolf - University of Manchester

Kristi Montooth - Indiana University

Lisa Nagy - University of Arizona

Patrick Phillips - University of Oregon

Phil Benfey - Duke University

Rudy Raff - Indiana University

Stuart Kim - Stanford University

mtoups@imail.iu.edu mtoups@imail.iu.edu

KansasCity EvolutionaryGenomics Nov13-15 StudentTravel

STUDENT TRAVEL FELLOWHIPS AVAILABLE TO ATTEND

2009 "GENES IN ECOLOGY, ECOLOGY IN GENES" SYMPOSIUM

The Ecological Genomics Institute (www.ecogen.k-state.edu < http://www.ecogen.k-state.edu/ >) at Kansas State University is pleased to announce that funding is available to support student fellowships to attend the 7th Annual Ecological Genomics Symposium, November 13 to 15, 2009, in Kansas City. Registration Information and details are available at www.ecogen.k-state.edu/symp2009.

The student fellowships are available through an award from the National Science Foundation with the goal of increasing the cultural and scientific diversity of young scientists (i.e., undergraduate and graduate students) attending the symposium. All applicants must be U. S. citizens or permanent residents.

Application Deadline: TUESDAY, SEPTEMBER 29, 2009.

Please follow the application procedures below that are also posted to:

http://ecogen.ksu.edu/downloads/-FellowshipApplicationInformation.pdf .

The following application materials are required:

1. Contact information including mail and email address and phone.

2. Title and abstract for a poster presentation to be presented by the individual receiving the fellowship.

3. Brief (one-page) statement of academic interests, career goals and/or how attending the Ecological Genomics Symposium will help reach these goals. In this one page statement, please indicate how inclusion of the student will increase diversity of the group participants. Please be sure to include your race and gender status.

4. One letter of recommendation to be submitted under separate cover from the student's faculty advisor. The letter should indicate how inclusion of the student will increase diversity of the group participants and can be sent by e-mail to dmerrill@k-state.edu.

Application packages can also be mailed to:

Doris Merrill, Program Coordinator

Ecological Genomics Institute

Division of Biology, Kansas State University

104 Ackert Hall, Manhattan, KS 66506-4901

Questions can be directed to Doris Merrill at (785) 532-3482 or

dmerrill@k-state.edu.

Deadline for submission: Tuesday, September 29, 2009.

PLEASE HELP US PUBLICIZE THESE FELLOWSHIP OPPORTUNITIIES BY FORWARDING THIS ANNOUNCEMENT TO STUDENTS AND COLLEAGUES!

Doris R. Merrill, dmerrill@k-state.edu Program Coordinator Ecological Genomics Institute, www.ecogen.ksu.edu Kansas State University, Division of Biology, 318 Ackert Manhattan, KS 66506-4901 Phone: (785) 532-3482, Fax: (785) 532-6653

dmerrill@ksu.edu

KansasCity StudentTravelFellowships Nov13-15

STUDENT TRAVEL FELLOWHIPS AVAILABLE TO ATTEND "GENES IN ECOLOGY, ECOLOGY IN GENES" SYMPOSIUM

The Ecological Genomics Institute (www.ecogen.k-state.edu) at Kansas State University is pleased to announce that funding is available to support student fellowships to attend the 7th Annual Ecological Genomics Symposium (November 13 to 15, 2009, in Kansas City). Registration Information and details are available at www.ecogen.k-state.edu/symp2009.

The student fellowships are available through an award from the National Science Foundation with the goal of increasing the cultural and scientific diversity of young scientists (i.e., undergraduate and graduate students) attending the symposium. All applicants must be U. S. citizens or permanent residents.

Application Deadline: Tuesday, September 29, 2009.

Please follow the application procedures below that are also posted to: http://ecogen.ksu.edu/downloads/-FellowshipApplicationInformation.pdf . The following application materials are required: 1. Contact information including mail and email address and phone. 2. Title and abstract for a poster presentation to be presented by the individual receiving the fellowship. 3. Brief (one-page) statement of academic interests, career goals and/or how attending the Ecological Genomics Symposium will help reach these goals. In this one page statement, please indicate how inclusion of the student will increase diversity of the group participants. Please be sure to include your race and gender status. 4. One letter of recommendation to be submitted under separate cover from the student's faculty advisor. The letter should indicate how inclusion of the student will

increase diversity of the group participants and can be sent by e-mail to dmerrill@k-state.edu.

Applications packages can also be mailed to: Doris Merrill, Program Coordinator Ecological Genomics Institute Division of Biology, Kansas State University 104 Ackert Hall, Manhattan, KS 66506-4901

Questions can be directed to Doris Merrill at (785) 532-3482 or dmerrill@k-state.edu.

Deadline for submission: Tuesday, September 29, 2009.

Please help us publicize these fellowship opportunities by forwarding to students and colleagues!

Doris R. Merrill,dmerrill@k-state.edu Program Coordinator, Kansas State University Phone: (785) 532-3482, Fax: (785) 532-6653

dmerrill@ksu.edu dmerrill@ksu.edu

Lisbon EvolutionaryBiology Dec21

Dear all,

We are please to announce that the 5th Portuguese Evolutionary Biology Meeting will take place at Instituto Superior de Psicologia Aplicada (ISPA) in Lisbon on December 21st 2009. It is being organized by Unidade de Investigação em Eco-etologia and Centro de Biociências do ISPA (Rua Jardim do Tabaco, 34, Lisbon).

The Portuguese Evolutionary Biology Meetings aim to bring together Portuguese researchers and to promote Evolutionary Biology in Portugal. They are held in late December to allow researchers in foreign institutions to attend, given that many spend their Winter break in Portugal.

To celebrate this special year, we will have Prof. Douglas Futuyma (Stony Brook University, NY, USA) as an invited speaker. The remainder presenters will be either Portuguese or working in Portugal.

Presenters should register by sending a message to biologia.evolutiva@gmail.com with the following information:

- Presentation title, - Name and affiliation, - Topic

The deadline for registration is November 27th. Portuguese and English will be the official languages of the meeting.

Also, we are happy to announce that we will discuss the creation of the Portuguese Evolutionary Biology Association. This idea has been on table for some time now and we will decide if this is the time to formalize it.

We would appreciate ample distribution of this announcement.

Best regards,

The Organizing Committee

(Posted by Sara Branco)

– Sara Branco Committee on Evolutionary Biology University of Chicago 1025 E 57th St Culver Hall 402 Chicago, IL 60637 USA

sara.mayer.branco@gmail.com

London Evolution Sept14

Dear EvolDir members,

Please find below a rough outline of the LERN conference programme.

Please register to attend (registration is free) by emailing your name and affiliation to londonev@londonevolution.net

Venue: Flett Theatre, Natural History Museum,

Date: 14 September 2009.

9:30am Registration and putting up of posters

9:55 Gillian Pepper, Welcome from the LERN committee.

10:00 KEYNOTE SPEAKER: Christophe Soligo (University College London)

Title: “Darwinius masillae/: Science behind the hype.”

10.40 TEA BREAK AND FIRST POSTER SESSION

12:30-13:30 Lunch

14:50-14:20 TEA BREAK AND SECOND POSTER SESSION

16:20 KEYNOTE SPEAKER: Max Reuter (University College London)

Title: TBA

17:00 WRAP UP AND PRIZE GIVING FOLLOWED BY WINE RECEPTION

A more detailed programme will be announced in the upcoming week.

We hope to see you all at the conference,

Best Regards,

The LERN Committee

–

LERN: the London Evolutionary Research Network. E-mail info@londonevolution.net or visit http://-londonevolution.net for events and further information. New members and suggestions for speakers are always welcome!

ht08ggp1@brunel.ac.uk

London Evolution Sept14 2

Dear list members,

This is a final reminder for the 7th Annual LERN Conference taking place on Monday, September 14th 2009. The conference is taking place in the Flett Lecture Theatre, Natural History Museum, Cromwell Road, South Kensington, London, SW7 5BD.

The nearest Underground station is South Kensington on the District, Circle and Piccadilly Lines. Enter at the Exhibition Road entrance - staff there can direct you to the Flett Theatre (it is essentially right above the Exhibition Road entrance). Security at the public entrances to the NHM is tight, so please be sure to leave plenty of time to have your bags searched, and don't bring any sharp objects!

We would like to bring special attention to our two keynote speakers:

Christophe Soligo (UCL) who will be presenting on "Darwinius masillae: Science behind the hype"

Max Reuter (UCL) who will speaking about "Population dynamics of incompatibility-inducing parasites: social evolution meets parasitism"

There will be a sandwich and fruit lunch served at 12.30. If you prefer to find lunch outside the Museum, there are many local eateries around the South Kensington underground station.

Three prizes will be given: the Brian Ruth Award for Best Oral Presentation; the Darwin Award for Best Use of an Evolutionary Framework; Best Poster Award.

The LERN committee will take all speakers and attendees for a free round of drinks at a local pub after the conference. Just follow the committee!

Click on the following link: http://bit.ly/xnT9T to find a copy of this year's conference programme.

We hope to see you all on Monday,

Kind Regards,

The LERN Committee

–

LERN: the London Evolutionary Research Network.

E-mail info@londonevolution.net or visit http://-londonevolution.net for

events and further information. New members and suggestions for speakers are always welcome!

– – Gillian Pepper Communications Manager - Department of Health and MSc Student - Evolutionary Psychology, Brunel Univsersity

Mobile: 07951 295 751 Email 1: gillianpepper@gmail.com (please use for science communication)

Email 2: ht08ggp1@brunel.ac.uk (please use for academic purposes)

Email 3: gillian.pepper@dh.gsi.gov.uk (please use for Government Communications issues)

Email 4: gillian@gillian-pepper.org (Please contact me on this for the Science and Society website)

Personal web page: http://www.scienceandsociety.info Science Policy UK Network: http://-network.nature.com/groups/ukpolicy/forum/topics London Evolution Research Network: http://-londonevolution.net/ Research and Media Network: http://researchandmedia.ning.com/profile/-GillianPepper gillianpepper@googlemail.com

Manchester CommunityGenetics Jan7-8

2nd Announcement:

The 1st European Community Genetics Conference "Forward from the Crossroads of Ecology and Evolution"

January 7-8th 2010 at The University of Manchester, Manchester, UK

Sponsored by the British Ecological Society

Abstract submissions now open

Registration and abstract submission deadline 30th

November 2009

Speaker - Dr. Marc Johnson, North Carolina State University

Registration £68 Bed and breakfast from £55 per night

For registration forms please contact: Jennifer Rowntree Jennifer.rowntree@manchester.ac.uk +44-(0)1612755108

Community genetics integrates the fields of ecology and evolution by considering the effects of intra-specific genetic variation on the wider community. The general idea is that species do not live in a stable, abiotic environment. Instead, they interact directly and indirectly with associated species in combination with the abiotic environment, causing effects that can be distinguished at a community level.

Dr Jennifer Rowntree Preziosi Lab Faculty of Life Sciences University of Manchester Smith Building Oxford Road Manchester M13 9PT

+44-(0)161-2755108

jennifer.rowntree@manchester.ac.uk

Mexico AncientDNA Sept24-25

1er Simposio Internacional de DNA antiguo del Laboratorio Nacional de Genómica para al Biodiversidad (LANGEBIO) del CINVESTAV-IPN ** 1st International Symposium of Ancient DNA from the Laboratorio Nacional de Genómica para al Biodiversidad (LANGEBIO) del CINVESTAV-IPN**

24 y 25 de septiembre de 2009, LANGEBIO, CINVESTAV-IPN, en Irapuato, Guanajuato, México.

Programa y mayores informes:

http://www.ira.cinvestav.mx/-SimposioDNAAntiguo.aspx —

** 1st International Symposium of Ancient DNA from the Laboratorio Nacional de Genómica para al Biodiversidad (LANGEBIO), CINVESTAV-IPN** 24 and 25 of September 2009, LANGEBIO, CINVESTAV-IPN, Irapuato, Guanajuato, México.

The program and detailed information can be found on:

http://www.ira.cinvestav.mx/-SimposioDNAAntiguo.aspx Cristina Pereira Santos (PhD) Professor Lector Unitat Antropologia Biològica Dep. Biologia Animal, Biologia Vegetal i Ecologia Facultat Biociències Edifici C Universitat Autònoma de Barcelona 08193 Cerdanyola del Vallès, BARCELONA (SPAIN)

Tel.: 34 93 5812049 Fax: 34 93 5811321 cristina.santos@uab.es

Cristina Pereira Santos <cristina.santos@uab.cat>

MexicoCity BarcodeOfLife Nov7-12 Reminder

Today is the last day for discounts for early registration. If you're thinking about attending the Third International Barcode of Life Conference in Mexico City during the week of 7-12 November 2009, please consider taking advantage of this discount. The conference website and online registration form are available at www.dnabarcodes2009.org< http://-www.dnabarcodes2009.org >.

More than half of the available places in the conference have already been taken. We expect to close registration weeks before the conference, so don't wait until the last minute. You may not be able to register if you do.

Best regards,

David

David E. Schindel, Executive Secretary

Consortium for the Barcode of Life 202/633-0812; fax 202/633-2938; portable 202/557-1149 Email: SchindelD@si.edu<mailto:SchindelD@si.edu> CBOL WEBSITE: http://www.barcoding.si.edu< http://www.barcoding.si.edu/ >

Office and overnight delivery address:

National Museum of Natural History Room CE-119 10th & Constitution Avenue, NW Washington, DC 20560

Postal mailing address:

National Museum of Natural History Smithsonian Institution P.O. Box 37012, MRC-105 Washington, DC 20013-7012

"Schindel, David" <schindeld@si.edu>

MexicoCity DNA Barcode Nov7-13 Registration 3

Registration for the Third International Barcode of Life Conference (www.dnabarcodes2009.org< http://www.dnabarcodes2009.org >) is now open and the early registration discount is available until 11 September. The Conference program is posted at http://dnabarcodes2009.org/program1.html and the detailed agenda with the list of plenary speakers and technical sessions is available at http://dnabarcodes2009.org/program1b.html . An update newsletter is available at http://dnabarcodes2009.org/Newsletter/newsletter_01.html . We look forward to seeing you at the conference!

David E. Schindel, Executive Secretary

Consortium for the Barcode of Life 202/633-0812; fax 202/633-2938; portable 202/557-1149 Email: SchindelD@si.edu<mailto:SchindelD@si.edu> CBOL WEBSITE: http://www.barcoding.si.edu< http://www.barcoding.si.edu/ >

Office and overnight delivery address:

National Museum of Natural History Room CE-119 10th & Constitution Avenue, NW Washington, DC 20560

Postal mailing address:

National Museum of Natural History Smithsonian Institution P.O. Box 37012, MRC-105 Washington, DC 20013-7012

schindeld@si.edu

MexicoCity DNA Barcode Nov7-13 RegistrationExt 4

Discounts for Early Registration Extended to 18 September Nearly 200 people from 41 countries have already registered for the Third International Barcode of Life Conference. Registration will be limited to 450 people and we expect to close registration several weeks before the conference, so don't wait until the last minute!

The organizers want to make the conference as affordable as possible, so the discount for early registration has been extended one week, through Friday, 18 September.

Registration fee entitles you to attend all sessions, provides you with lunches and coffee breaks during the meetings, bus transportation from the two conference hotels to the pre-Conference workshops at UNAM and the conference venue at the Mexican Academy of Sciences, and tickets to the opening reception and the closing banquet. The schedule of registration fees is:

Delegates: US$200.00 until 18 September 2009 US$250.00 until 30 October 2009 US$300.00 on-site registration (if available) Delegates from developing countries: US$125.00 until 18 September 2009 US$150.00 until 30 October 2009 US$175.00 on-site registration (if available) Students: US$75.00 until 18 September 2009 US$100.00 until 30 October 2009 US$100.00 on-site registration (if available)

The Conference Program

We hope you're ready for three very full days of scientific discussions! The main conference will have plenary sessions in the morning< http://www.dnabarcodes2009.org/program1b.html#tue >, parallel technical sessions on Tuesday and Wednesday afternoons, and a Meso-American Symposium on Thursday afternoon. The technical sessions will include presentations of submitted abstracts and time for discussions of future activities. The topics of the technical sessions will be:

Plant Working Group Insects/Terrestrial Arthropods Fish-BOL Barcoding Species for Quarantine/Plant Protection Marine Species BeeBOL Data Analysis Working Group All Birds Barcoding Initiative and Vertebrates Barcoding Pathogens, Vectors and Parasites Barcoding Fungi, Algae, Protists and new groups Barcoding the Trees of Africa

Pre-Conference Activities

The Conference organizers have planned three days of workshops and short-courses< http://www.dnabarcodes2009.org/program1.html > related to DNA barcoding for Saturday to Monday, 7-9 November 2009. All the recipients of travel bursaries are urged to attend, and anyone registered for the conference is welcome. Please consult the conference website< http://www.dnabarcodes2009.org/ > as we add information on these pre-conference activities:

* Workshop on planning barcoding projects and writing proposals for funding (organized by CBOL, UNAM, iBOL and CBD/GTI) * Short course on laboratory

protocols for barcoding (organized by CBOL, UNAM and iBOL) * Short course on data management and BOLD (Barcode of Life Data System) * Workshops for plant barcoding, TreeBOL, and GrassBOL (organized by CBOL and UNAM) * Workshop on barcoding invasive species (organized by CONABIO) * Meeting of Data Analysis Working Group (organized by CBOL) * Workshop on DNA barcoding in Developing Countries (organized by IDRC, Canada)

David E. Schindel, Executive Secretary

Consortium for the Barcode of Life 202/633-0812; fax 202/633-2938; portable 202/557-1149 Email: SchindelD@si.edu<mailto:SchindelD@si.edu> CBOL WEBSITE: http://www.barcoding.si.edu< http://www.barcoding.si.edu/ >

Office and overnight delivery address:

National Museum of Natural History Room CE-119 10th & Constitution Avenue, NW Washington, DC 20560

Postal mailing address:

National Museum of Natural History Smithsonian Institution P.O. Box 37012, MRC-105 Washington, DC 20013-7012

"Schindel, David" <schindeld@si.edu>

NHM London YoungSystematists Dec2

Dear EvolDir,

This is a call for participants in the 2009 Young Systematics' Forum meeting held in the Natural History Museum, London, on Wednesday 2nd December. Please see details below.

11TH YOUNG SYSTEMATISTS' FORUM

WEDNESDAY, 2nd December 2009, 9 am

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

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

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

Registration is FREE. Send applications by e-mail to David Bass (d.bass@nhm.ac.uk), supplying your name, contact address and stating whether you wish to give an oral or poster presentation. Space will be allocated subject to availability and to make a balanced programme of animal, plant, algal, microbial, molecular and other research. Non- presenting attendees should also register as above.

Abstracts must be submitted by e-mail in English no later than 18th November 2009. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

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

Organisers: David Bass (Natural History Museum) & Tom A. Richards (University of Exeter, UK)

Dr David Bass Room DC1 406B Zoology Department The Natural History Museum Cromwell Road London SW7 5BD

david.bass@zoo.ox.ac.uk david.bass@zoo.ox.ac.uk

Rome MolAnthroGenomics Dec3-5

TITLE OF MESSAGE: "Molecular Anthropology on the Genomic Era" - International conference in Rome (Italy), December 3-5, 2009

Dear Evoldir Members,

a conference called "Molecular Anthropology on the Genomic Era" addressing anthropologists, population geneticists and scholars belonging to related discplines will be held next December (3-5) in Rome (Italy).

Among others, invited speakers are: Mark JOBLING (UK); Jorge ROCHA Portugal; Connie MULLIGAN (USA); Martin RICHARDS (UK); John NOVEMBRE (USA)...

A CALL for abstracts is now open at the following (very simple) website: http://www.mnhn.fr/-mnhn/ecoanthropologie/Rome2009/Rome_index.html The structure of the conference is to present state-of-art research continent by continent since, as a matter of fact, the research of many colleagues is geographically focused. Our objective is to contribute examples and ideas that will drive further integration of molecular anthropology and other research fields and disciplines. Particular attention will be given to the impact of new analytical methods but also, and more traditionally, to updated and comprehensive syntheses about human diversity, since browsing the ever growing literature requires an enormous time that acts as a barrier among specialists of different areas. The last day will be devoted to human evolutionary research in an interdisciplinary frame. Theories and approaches will be discussed in a challenging way by putting face-to-face molecular anthropologists and experts from other disciplines. We are putting much energy in organizing such latter session since we would like to emphasize the dangers of the hyper specialization mentioned above.

Contact: Franz Manni <manni@mnhn.fr> Conference website: http://www.mnhn.fr/mnhn/-ecoanthropologie/Rome2009/Rome_index.html Dr. Franz Manni UMR 5145 National Museum of Natural History - Musée de l'Homme

Maître de conferences / Lecturer Executive Editor of "Human Biology", (Wayne State University Press, Detroit (MI), USA www.humbiol.com 1. Physical address: 61, Rue Buffon, 75005 Paris - France 2. Postal address: CP 139, 57 rue Cuvier, 75231 Paris Cedex 05 - France

Tel. 0033 1 44 05 72 84 / 0033 1 44 05 81 60 Fax. 0033 1 40 79 32 31 Email manni@mnhn.fr

Franz Manni <manni@mnhn.fr>

Roscoff France FungalEvolution Apr17-21

1st Call << New and Emerging Fungal Diseases of Animals and Plants : evolutionary aspects in the context of global changes>>

The CNRS and Conferences Jaques Monod are hosting a 4-day meeting at the French Marine Biology research station in Roscoff, Brittany on the evolution and dynamics of emerging fungal pathogens. This meeting will focus on the widening impacts that fungi are having on human, plant and animal health by considering the factors that drive their emergence within an evolutionary context. Specifically, the meeting will consider whether environmental change is facilitating fungal range expansions and genotypes, and to what extent this is predictable. The meeting will bring together leading evolutionary biologists, theoreticians and fungal biologists/ecologists in a beautiful setting to consider these questions and to formulate new research strategies.

Plenary speakers:

François Balloux ; Imperial College London, UK Lynne Boddy ; University of Cardiff, UK Bruno Le Cam ; INRA Angers, France Ignazio Carbone ; North Carolina State University, USA Jean Carlier ; CIRAD Montpellier, France Jean Marie Cornuet ; Centre de Biologie et de Gestion des Populations Sybren de Hoog ; CBS Fungal Biodiversity Centre, Netherlands François Delmotte ; INRA Bordeaux, France Marie-Laure Desprez-Loustau ; INRA Bordeaux, France Matthew Fisher ; Imperial College London Sylvain Gandon ; CNRS Centre d'Ecologie Fonctionnelle et Evolutive Montpellier, France Trenton Garner ; Insitute of Zoology, UK Greg Gilbert ; University of California, Santa Cruz Tatiana Giraud ; CNRS - Université d'Orsay, France Michael Hood ; Amherst College, USA Mogens Hovmoller ; Aarhus University, Denmark Levente Kiss ; Plant Protection Institute of the Hungarian Academy of Sciences Linda Kohn ; University of Toronto, Canada Marc Henri Lebrun ; INRA BIOGER, France Celeste Linde ; Australian National University David Lodge ; University of Notre Dame, USA Benoît Marçais ; INRA Nancy, France Bruce McDonald ; ETH Zurich, Switzerland Michael Milgroom ; Cornell University, USA Ingrid Parker ; University of California, Santa Cruz Amy Pedersen ; Sheffield University, UK Anne Pringle ; Harvard University, USA Virginie Ravigné ; CIRAD Montpellier, France Eva Stukenbrock ; University of Århus, Denmark John Taylor ; University of California at Berkeley, USA Frank van den Bosch ; BBSRC, Rothamsted Research, UK

Conference website:

http://www.ese.u-psud.fr/-CJMemergingdiseases2010/ To participate, please contact:

Matthew Fisher <matthew.fisher@imperial.ac.uk> Tatiana Giraud <tatiana.giraud@u-psud.fr>

"Fisher, Matthew" <matthew.fisher@imperial.ac.uk>

SussexU SocialInsectEvolution Nov26-27

The winter 2009 meeting of the North-West European section of the International Union for the Study of Social Insects (IUSSI) will take place at the University of Sussex on Thursday and Friday, 26-27 November.

Some slots for talks are still available and anyone interested in submitting an abstract should contact Christophe Grueter (C.Grueter@sussex.ac.uk). We would like to include a range of talks from PhD students, postdocs and faculty.

Sussex University is located on the outskirts of Brighton, UK. For further details about the meeting, please see the IUSSI website, http://www.zi.ku.dk/-iussi/meetings.html e.leadbeater@sussex.ac.uk e.leadbeater@sussex.ac.uk

UCaliforniaBerkeley WesternEvolBiol Dec5

I'd like to announce a regional meeting, the 3rd annual WEB (Western Evolutionary Biologists) Meeting. This year it will be held at UC-Berkeley on Saturday Dec. 5. The UC organization NERE funds the meeting. Each UC campus has some travel funds available for NERE members, for more information contact the NERE Associate Director at your UC campus (see website below for details).

If you'd like to give a (15-20 min) talk or poster, note the deadline for abstract submission is not too long from now (Oct 16). The registration deadline is Oct. 29.

The WEB web site and registration is here: http://-www.lifesci.ucsb.edu/nere-web/ -

Todd H. Oakley Professor Ecology Evolution and Marine Biology University of California-Santa Barbara Santa Barbara, CA 93106 (805) 893-4715 http://www.lifesci.ucsb.edu/eemb/labs/oakley/ oakley@lifesci.ucsb.edu oakley@lifesci.ucsb.edu

ULisbon DarwinsMathLegacy Nov23-24

We are pleased to announce the conference

THE MATHEMATICS OF DARWIN'S LEGACY

organized by Centro Internacional de Matematica in collaboration with the European Society for Mathematical and Theoretical Biology at the University of Lisbon, 23-24 November 2009. The invited speakers are

Reinhard Buerger (U. Vienna, AT) Warren J. Ewens (U. Pennsylvania, USA) Mats Gyllenberg (U. Helsinki, FI) Vincent Jansen (Royal Holloway, UK) Sylvie MÃ©lÃ©ard (E. Polytechnique, FR) Hans Metz (U. Leiden, NL) Masayasu Mimura (Meiji U., JP) Jorge Pacheco (U. Lisboa and U. Minho, PT) Benoit Perthame (U. Paris, FR) Peter Schuster (U. Vienna, AT) Peter Taylor (Queens U., CA) Franjo Weissing (U. Groningen, NL)

Poster submissions till 31 October. For more information and registration, please visit http://www.cim.pt/-Darwin2009/ . The organizers: Fabio Chalub, JosÃ© Francisco Rodrigues, Peter Jagers and Eva Kisdi

(posted by Eva Kisdi)

kisdi@mappi.helsinki.fi kisdi@mappi.helsinki.fi

UNebraskaLincoln BIOT2009 Oct9-11 Travel 4

BIOT-2009 Student/Postdoc Travel Scholarships

We are pleased to announce Student/Postdoc Travel Scholarships to attend the 6th Annual Biotechnology and Bioinformatics Symposium (BIOT-2009). These travel scholarships are made available through a National Science Foundation award. All students and postdocs are welcome to apply. Please follow the application procedure below to apply for a travel scholarship.

Application Deadline: September 10 (Thu), 2009

Eligibility: Only current students (graduate or undergraduate) and postdocs are eligible for the awards.

Ask your current supervisors or PIs to send a short confirmation email for the applicant's current status (student or postdoc) to BiotechPSIOffice@unl.edu with "BIOT-2009 Scholarship Confirmation" in the subject line. The confirmation emails are due by September 10 (Thu), 2009.

Abstract Submission: Applicants are required to submit a one-page poster abstract, and if chosen, to attend the meeting and present the poster. If applicants have already submitted papers or two-page abstracts for oral presentation, no other abstract submission is necessary. The abstract (or paper) should have the applicant as the first author. In the comment section of the paper/abstract submission website, write "Student Scholarship" or "Postdoc Scholarship," depending on your qualification.

Email Application: In addition to the abstract submission, send an Email to BiotechPSIOffice@unl.edu with "BIOT-2009 Scholarship Application" in the subject line. In the Email body, include the following information: 1. Paper/abstract ID# 2. Full Legal Name 3. Home address 4. Country of citizenship (If you do not have a US SSN) 5. Email address 6. Name and Email of your supervisor/PI who will send the confirmation Email

Travel Scholarships: Travel scholarship amounts, based on actual expenses (including registration fee), will be awarded up to $1,500 depending on the quality and number of applications. Awardees will be notified via email no later than September 25 (Fri), 2009.

Registration: Registration and payment of the registration fee is required for all awardees. Note that the cancellation policy applies. For details, see BIOT-2009 website: http://www.biotconf.org/ **Foreign applicants, not in the US: Foreign individuals, not in the US, should email the BiotechPSIOffice@unlnotes.unl.edu their interest in the Travel Scholarships as soon as possible for additional information.

Applications that do not follow the above procedure will not be considered for the Travel Scholarship. Note also that we may invite a few awardees for oral presentation. For more information on BIOT-2009 visit our website at: http://www.biotconf.org/ Administrative Coordinator: Barbara Gnirk (bgnirk1@unl.edu)

Symposium Co-Chairs: Etsuko Moriyama (emoriyama2@unl.edu) Leen-Kiat Soh (lsoh2@unl.edu) Stephen Scott (sscott@cse.unl.edu)

emoriyama2@unlnotes.unl.edu

UParis-Diderot HumanEvolution Oct22-23

2d call ≪ Darwin's legacy : New Insights into Human Evolution ≫

The French Genetics Society (SFG : Société Française de Génétique) and The French Human Genetics Society (SFGH : Société Française de Génétique Humaine) are organizing a two-day meeting at the Buffon building, University Paris-Diderot, October 22-23, 2009 on the topics of : ≪ Darwin's legacy : New Insights into Human Evolution ≫ This meeting will provide a forum for the presentation of original and up-to-date scientific research in the fields of human population genetics, molecular evolution, comparative genomics, anthropology and paleogenetics. It will bring together leading evolutionary biologists and science historians to commemorate the Darwinian Revolution. Informations available on http://www.reaumur.org/article.php3?id_article=-737&id_rubriqueB Co-organizers: Denise Busson, Prof. Paris 6 Claudie Isnard-Lamour, Prof Paris 7 Christophe Terzian, Prof EPHE

Christophe Terzian <cterzian@univ-lyon1.fr>

GradStudentPositions

Barcelona EvolutionaryGenomics 14
CentralMichiganU SnailMicros 14
ColoradoStateU DroughtAdaptation 15
ETH Zurich Bioinformatics MolEvol 15
FortHaysStateU PlantAdaptation 16
KansasStateU EvolutionGenomics 17
Kiel Germany HostParasiteCoevolution 17
LavalU Stickleback BehaviourEvolution 18
MartinLutherU BeeQuantGenetics 19
MichiganStateU EvolGeneticsDevelopment 19
OhioStateU MarineInvertSystematics 20
Portugal Modelling 20
QueensCollege NY DiseaseEvolution 21
UAntwerp AvianBehavioralEvolution 22
UArkansas EntamoebaSystematics 23
UArkansas EntamoebaSystematics 2 23
UBasel SexualSelection 24
UBern BehaviorGenomics ReprodIsolation 24
UCaliforniaLosAngeles PlantEvolutionaryBiol 49
UFlorida SexualSelection Insects 25
UGroningen AvianEvolutionaryBiol 26
UGroningen BirdEggEvolution 27
UIdaha ConservationGenetics 2 28
UIdaho ConservationGenetics 29
ULaval SalmonidGenomics 30
ULaval SprucePopulationGenet 31
UOklahoma DaphniaEvolution 31
UOsnabruck Germany TermiteEvolution 32
UppsalaU SexRoleReversal 32
UStAndrews EnzymeEvolution 33
UTexasAustin EvolutionaryAdaptation 34
UVienna PlantEvolution 34
UZurich EvolvedPhysiology 35

Barcelona EvolutionaryGenomics

PHD IN EVOLUTIONARY GENOMICS

Universitat Pompeu Fabra, Barcelona, Spain

A PhD position (4 years) is available in the group of Evolutionary Genomics coordinated by M.Mar Albà at Universitat Pompeu Fabra (Barcelona, Spain) in the framework of the National Research Plan 2009-2012. The group is located in the recently built Barcelona Biomedical Research Park, an international Institute with over1,000 researchers working on different aspects of molecular biology and biomedicine.

Application deadline: November 30 2009 Starting data: September 1 2010

The project will investigate the mechanisms of emergence of novel genes in mammalian genomes using, primarily, computational genomics. The formation of novel genes in genomes is strongly linked to the emergence of new functions. A fraction of these novel genes is formed by gene duplication, but another fraction originates by alternative mechanisms. This last fraction comprises the so called orphan genes, which are genes for which no homologues can be found in other species. The number of orphan genes in any genomes is intriguingly high and many of these genes have an unknown origin. We have recently shown that a large portion of the primate orphan genes contain sequences derived from primate-specific transposable elements, suggesting that these elements play an important role in the emergence of new genes and molecular functions. In addition, we have found evidence that a number of the orphan genes are likely to have originated de novo from pre-existing non-coding genomic sequences (Toll-Riera et al., 2009, Mol. Biol. Evol. 26:603-612). The project will identify novel genes formed at different time periods during the evolution of mammals, investigate how they have originated, and assess the role of adaptive evolution in their retention.

The candidate should have a strong academic record and hold an MSc at the PhD starting time. An interest in sequence analysis and evolution is required. Programming skills will be a benefit.

To know more about our group please visit our web page: evolutionarygenomics.imim.es

To apply send an informal email to Mar Albà (malba@imim.es), including your CV, a short statement of your research interests, and the names of two references.

malba@imim.es

CentralMichiganU SnailMicros

MS Graduate Research Assistantship (Central Michigan University) ' Development and characterization of microsatellite DNA markers for imperiled physid snails

RESPONSIBILITIES: The successful applicant will conduct a two-year research project developing mi-

crosatellite DNA markers for physid snails. This project will be the first step toward testing the taxonomic validity of selected imperiled physid snail species in Canada. The successful applicant will work with Dr. Dave Zanatta (www.cst.cmich.edu/users/zanat1d/) to answer questions about the conservation genetics of physid snails, ultimately leading to a comprehensive thesis. Research assistantships will be available throughout the summers and teaching and/or research assistantships will be available through the school year.

QUALIFICATIONS: The successful applicant should be highly motivated and have a B.S. (or completion by May 2010) in biology, zoology, genetics or closely related field and should be able to work independently in the lab. Prior experience in a molecular lab developing microsatellite DNA libraries (cloning), PCR, and genotyping are necessary. Experience and interest in conservation biology and working with aquatic invertebrates and/or mollusks, is also an asset.

Minimum academic qualifications include 3.0 GPA (on a 4.0 system), GRE scores must be sent to CMU graduate school for approval. Additional graduate program information can be found at: http://-www.bio.cmich.edu/grad_app_admiss.htm (deadline for Teaching Assistantship applications is Feb 15 2009). Salary: approx $15,000 per year with full tuition waiver.

CLOSING DATE: Until filled. Selection will be made by Feb 1, 2010. Applications received by Dr. Zanatta prior to Jan 15, 2010 will be given full consideration. Applicants SHOULD NOT apply directly to CMU until hearing from Dr. Zanatta. The candidate will be expected to begin by June 1, 2010.

Send (email preferred) a cover letter explaining your interest and qualifications, resume (CV), copies of transcripts (unofficial ok), and the names and contact information of three references to :

Dr. Dave Zanatta Assistant Professor Biology Department Central Michigan University 186 Brooks Hall Mount Pleasant, MI 48859

email: zanat1d@cmich.edu <zanat1d@cmich.edu> office: 989-774-7829 lab: 989-774-7634 fax: 989-774-3462 Homepage: http://www.cst.cmich.edu/users/-zanat1d/ zanat1d@cmich.edu zanat1d@cmich.edu

ColoradoStateU DroughtAdaptation

PhD Position: evolutionary quantitative genetics

A PhD fellowship is available to work with Dr. John McKay at Colorado State University. We are looking for a highly motivated individual with a solid training in Evolution, Plant Physiology and Genomics and with the demonstrated ability to carry out outstanding research. The applied goal of the project is to improve the drought stress tolerance of winter wheat by incorporating germplasm primarily from the wild relative Aegilops tauschii. The fundamental goal of the project is to identify and physiologically characterize genes and genomic regions underlying variation in yield and its sensitivity to drought by combining plant breeding with genome-wide molecular techniques and whole-plant physiology.

The position is available January 2009, but the start is flexible. The successful applicant will participate in a short-course in breeding for drought adaptation, which will take place in June 2010. Salary and benefits are competitive, and CSU is an excellent academic environment for the study of plant biology. Our lab group has excellent interactions with colleagues in bioinformatics, plant physiology, ecology, evolutionary genetics and molecular biology. Fort Collins is located on the Front Range of the Rockies and is ranked highly among great places to live. This position is restricted to US citizens and permanent residents

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

www.mckaylab.colostate.edu
www.droughtadaptation.org "McKay,John" <John.McKay@ColoState.EDU>

ETH Zurich Bioinformatics MolEvol

Two PhD positions in Bioinformatics/ Molecular Evolution

Two three-year Ph.D. studentships are available at the Computational Biochemistry Research Group (CBRG), department of Computer Science at the Swiss Federal Institute of Technology (ETH Zurich), highly reputable internationally. CBRG is a member of the Swiss Bioinformatics Institute (SIB) and benefits from SIB training courses and networking.

The research focus will be to study selective pressures and other patterns in proteins with tandem repeats (which often play role as receptors, implicated in human

disease, and more). The project will involve modeling the evolutionary process at the codon level and developing/adapting machine-learning techniques to recognize patterns in complex multi-facet data. Planned collaborations with structural biologists (CNRS, Montpellier) promise an exciting case for motivated young scientists.

Successful candidates will have a strong background in bioinformatics, computer science, statistics, and/or computational biology. Fluency in a major scripting language and experience in software development is a must. Some background in biology is desirable, but interest in biology and bioinformatics is required. Candidates should be highly motivated and have the ability to work independently. As the research will involve a mix of disciplines, candidates with experience in several fields will be preferred (bioinformatics, genetics, protein structure, computational science, mathematics, physics, statistics). ETH Zurich boasts excellent facilities for studying and recreation. The working language in the laboratory is English, which is also widely used in Switzerland. Zurich is located less than one hour from the Alps, and is a small but vibrant city offering one of the best living standards in the world. Zurich is well connected to major European cities, and has a large international community.

Successful applicants will be supervised by Dr Maria Anisimova, whose interests include a variety of topics in Molecular Evolution and Bioinformatics.

To apply, please send a single PDF file to maria.anisimova@inf.ethz.ch containing: CV (with publication list if applicable)

a scanned academic transcript (certificate, list of grades in university courses)

a short statement of research interests, mentioning research topics of master/diploma theses (not exceeding two pages)

three references

Please mention ±PhD position± in the subject of your e-mail. The position is open until filled (but quick response is recommended). Start date: 1 November 2009 or within three months (negotiable)

Maria Anisimova <maria.anisimova@inf.ethz.ch>

FortHaysStateU PlantAdaptation

MS Assistantship in Plant Physiological Ecology Ecotypic variation of Big Bluestem along a precipitation gradient, testing for local adaptation in response to drought

Fort Hays State University, Department of Biological Sciences

We have a position available for a MS student to study plant physiological ecology of drought stress. The project will include studies of the responses of natural prairie ecosystems to variation in precipitation using the ecologically dominant prairie grass big bluestem (Andropogon gerardii) as a model. The work will be part of a project funded by the USDA Plant Biology Abiotic Stress program. The project will include common garden reciprocal transplant experiments and phenotypic characterization to test for the adaptive differentiation of natural populations of big bluestem across the precipitation gradient from southern Illinois to Colby, Kansas. Relevant measurements will include tiller density and height, flowering time/success, leaf mass area, gas exchange, chlorophyll fluorescence, and plant and soil water potential. There is also opportunity for the student to develop other measurements and hypotheses within the field treatments, including comparisons with closely-related sand bluestem (Andropogon hallii). This student will also interface with others in the collaborative project that are investigating the functional genetic variation and expression in big bluestem ecotypes and identifying genes that are responsive to drought. There will also be opportunities to interact with other researchers in the context of the Kansas State University Ecological Genomics Institute (www.ksu.edu/ecogen).

The student will be co-advised by Brian Maricle (brmaricle@fhsu.edu) Biology, Fort Hays State University, Hays, KS (http://www.fhsu.edu/biology/brmaricle/-) and Keith Harmoney at the KSU Agricultural Research Center, Hays, KS (kharmone@ksu.edu) and will work as part of a larger collaborative team with Loretta Johnson (KSU; http://www.k-state.edu/johnsonlab/), Ted Morgan (KSU; http:/-/www.k-state.edu/morganlab/Morganlab/lab.html), Sara Baer (Southern Illinois University; http://-www.plantbiology.siu.edu/Faculty/Baer/index.html), Karen Garrett (www.ksu.edu/pdecology) and Eduard Ahkunov (KSU; eakhunov@ksu.edu).

Applicants should have a demonstrated interest in plant physiological ecology and/or ecological genomics. Preference will be given to students who have experience or demonstrated potential in these areas.

Review of applicants will begin in October 2009, and will continue until the successful applicant is identified.

Applications should include a cover letter with a statement of research interests and timing of availability, a CV, and names and contact information for three professional references. Please send your application through e-mail to brmaricle@fhsu.edu. To ensure that your application is received, please include the following in the subject of your e-mail: Application for Ecotype Assistantship. Acceptance into this assistantship is also contingent on acceptance into the Fort Hays State University Graduate School. This entails a separate application; instructions can be found at: http://-www.fhsu.edu/gradschl/forms.shtml The starting date can be January or May 2010. Applicants will need to be able to begin on the project by May 2010. The position offers competitive salary and benefits.

brmaricle@fhsu.edu

KansasStateU EvolutionGenomics

GAANN PHD FELLOWSHIPS IN ECOLOGY, EVOLUTION AND GENOMICS IN CHANGING ENVIRONMENTS, KANSAS STATE UNIVERSITY, MANHATTAN

The Division of Biology at Kansas State University has been awarded new funding from the US Department of Education GAANN program to support up to seven Graduate Fellows for PhD research in the areas of Ecology, Evolution and Genomics (EEG). The Graduate Assistance in Areas of National Need (GAANN) program provides fellowships to assist graduate students with excellent academic records who can demonstrate financial need. EEG GAANN Fellowships include tuition and a stipend of up to $30,000 per year (based on financial need).

The Ecology, Evolution and Genomics GAANN draws on the strengths of our Ecological Genomics Institute (http://ecogen.ksu.edu), expertise in Grassland Ecology, and Konza Prairie Long Term Ecological Research (LTER) program (http://kpbs.konza.ksu.edu). Areas of study open to Graduate Fellows include:

-Molecular and Physiological Basis of Organismal Adaptation

-Genetic Architecture of Speciation

-Population Structure of Grassland Species

-Conservation Genetics

-Ecological Genomics

-Metagenomics

-Community Ecology

-Terrestrial and Aquatic Ecosystem Ecology.

GAANN awards are made to programs and institutions to sustain and enhance the capacity for teaching and research in areas of national need. The interdisciplinary GAANN program in Biology at Kansas State University will address the critical need to train biologists to be effective teachers and skilled researchers in diverse professional and cultural contexts. One outcome of the GAANN program will be to train graduate students who are capable of addressing important conceptual and practical issues in interdisciplinary research in the biological sciences.

The application deadline for admission in Fall 2010 is December 15, 2009. Applicants must be citizens or permanent residents of the United States or its territories. Individuals from groups underrepresented in science are particularly encouraged to apply! For application instructions and additional information,

visit: www.k-state.edu/eeg.

Doris R. Merrill, dmerrill@k-state.edu Program Coordinator EEG GAANN Integrative Biology Program Kansas State University Phone: (785) 532-3482, Fax: (785) 532-6653

dmerrill@ksu.edu dmerrill@ksu.edu

Kiel Germany HostParasiteCoevolution

PhD on host-parasite coevolution, Kiel, Germany

Summary: The PhD project aims at a comprehensive experimental test of the consequences of host-parasite co-evolution. It is based on a selection experiment under controlled laboratory conditions followed by extensive phenotypic and molecular analysis. The approach relies on a unique model system, consisting of the nematode Caenorhabditis elegans as a host and its microparasite Bacillus thuringiensis, which are both ideally suited to experimental analysis. The results of this project are expected to have an impact on four biological research themes that are of particular current interest: the animal innate immune system, bacterial virulence, life-history trade-offs, and the generation of biological diversity.

Supervision and location: The project is supervised by

Prof. Dr. Hinrich Schulenburg and funded by the German Science Foundation (position according to 13 TV-L/2). It is based in the recently founded Department of Evolutionary Ecology and Genetics at the University of Kiel, Northern Germany. The project is part of the German priority programme SPP 1399 on host-parasite coevolution and thus includes comprehensive interactions with various research groups across Germany and abroad. The department itself provides an international and interactive atmosphere, while Kiel University and connected institutes (e.g., Max Planck Institute in Ploen) offer a stimulating research environment with a particular focus on evolutionary biology and also C. elegans genetics. The city of Kiel is a medium-sized pleasant town located at the coast of the Baltic Sea. It is the capital of the most Northern state of Germany, Schleswig-Holstein. It offers many opportunities for leisure activities, including theatres, an opera, the Schleswig-Holstein classical music festival, the heavy metal festival in Wacken, sailing, surfing, cycling, and the famous festivities of the "Kieler Woche" V one of the largest sailing events in Europe.

Requirements for the position: Master or Diploma in Biology, high motivation, excellent background in evolutionary biology (especially host-parasite evolution) and statistics, handling of complex experimental set-up, teamwork, ideally some experience with C. elegans or bacteria, fluency in English.

Applications: Please send applications with CV, one-page statement of research interests, and two references, as a pdf-file by email to Hinrich Schulenburg (hschulenburg<at>zoologie.uni-kiel.de). Deadline for applications: 7th October 2009. Start of position: December 2009 or soon afterwards.

Women are especially encouraged to apply. Severely handicapped people will be preferentially considered in case of equivalent qualifications. For further details + questions, send an email to Hinrich Schulenburg (hschulenburg<at>zoologie.uni-kiel.de).

– Hinrich Schulenburg

NEW ADDRESS NEW ADDRESS

Zoological Institute Christian-Albrechts-Universitaet zu Kiel Am Botanischen Garten 1-9 24118 Kiel Germany Tel: +49-431-880-4143 Fax: +49-431-880-2403 Email: hschulenburg@zoologie.uni-kiel.de

Hinrich Schulenburg <hschulenburg@zoologie.uni-kiel.de>

LavalU Stickleback BehaviourEvolution

Graduate position: Integrative Biology of Behaviour in Sticklebacks

Application deadline: September 30, 2009

M. Sc. and Ph. D. positions are available in the Department of Biology at Laval University, located in Quebec City, Canada, in the field of Integrative Biology and Genomics of Behaviour. Our laboratory is part of the Institute of Integrative and Systems Biology (IBIS).

Our lab is interested in dominance behaviour, in the stress response and temperament in general, as well as in reproductive tactics. Chosen candidates will study the underlying molecular and hormonal causes of variation in behaviour in vertebrates. We favour an integrative approach by linking data from the same individual: gene expression in the brain (quantitative Real-Time PCR, microarrays), hormones, physiology and behaviour. Our model system is the threespine stickleback Gasterosteus aculeatus, a small fish studied in behavioural biology, which can be kept easily in the lab and whose genome is sequenced.

Our work is supported by NSERC. We study a natural stickleback population that can be sampled a few minutes from the University campus, in the magnificent St-Lawrence River. Laval University is one of the ten main canadian universities. Quebec City is dynamic with all the advantages of a large city while still allowing for very easy access to wilderness. The chosen candidates will be part of the Institute of Integrative and Systems Biology. They will have access to core genomics and molecular biology facilities, lab meetings, journal clubs and weekly seminars in Integrative and Systems Biology. Several ecologial genomics laboratories are part of the Institute, allowing for enriched interactions with members of the other laboratories working in this field.

Starting date: January 2010 or May 2010.

All chosen candidates will have to apply to external funding such as FQRNT and NSERC.

Contact me directly for informal enquires at:

Nadia.Aubin-Horth@bio.ulaval.ca

Nadia Aubin-Horth Department of Biology Institute of Integrative and Systems Biology Pavillon Charles-Eugene-Marchand 1030, Avenue de la Medecine Laval

University Quebec city (Quebec) G1V 0A6 Canada

Nadia.Aubin-Horth@bio.ulaval.ca Nadia.Aubin-Horth@bio.ulaval.ca

MartinLutherU BeeQuantGenetics

*** PhD Position: evolutionary quantitative genetics ***

A PhD position is available in the Molecular Ecology Research Group of the Institute of Biology at the Martin-Luther-University Halle-Wittenberg, in Halle (Saale), Germany (http://www.mol-ecol.uni-halle.de/-).

The project focuses on applicability of marker-assisted selection in bumblebee breeding. The main topic will be to derive and incorporate genomic marker information (microsatellites and SNPs) for disease resistance into breeding programs. The efficiency of marker-assisted selection will be tested when markers are used in one parent only (queens vs. males) or in both on traits that are expressed in individual workers as well as on the colony level. Marker-assisted selection should be compared to phenotypic selection, both at the individual and the colony level.

We are looking for a highly motivated student having a Masters degree or equivalent in the relevant field. He/she should work well both as a member of the group and independently. Prior laboratory experience is required, and skills in handling and maintaining social insect colonies as well as knowledge of statistical analyses are preferred. Applicants should have a broad biological background, with special emphasis in the fields of quantitative genetics and evolutionary biology. Working and teaching language is English.

To apply, please send letter of motivation including research interests, a C.V., and contact details for two or three references by e-mail (lattorff@zoologie.uni-halle.de). The position is open until filled, but for full consideration, apply by October 18th, 2009. The position is fix term for three years (~1,000 EUR/month). The preferred starting date is January, 1st 2010.

Halle hosts many excellent scientific institutions such as Helmholtz Centre for Environmental Research (UFZ), 3 Max-Planck Institutes and the Leibnitz Institute for Plant Biochemistry (IPB). Halle is the largest city of Sachsen- Anhalt with a good infrastructure, hosting 2 universities. Due to the high number of students Halle has a rich choice of social, cultural and sporting facilities (see www.halle.de).

For further information regarding the group and/or the project please contact Dr. Michael Lattorff Institute of Biology, Molecular Ecology Martin-Luther-University Halle-Wittenberg Hoher Weg 4 06099 Halle (Saale) Germany phone. +49-345-5526389 fax. +49-345-5527264 email. lattorff@zoologie.uni-halle.de www. http://www.mol-ecol.uni-halle.de/ Dr. Michael Lattorff Institute of Biology, Molecular Ecology Martin-Luther-University Halle-Wittenberg Hoher Weg 4 06099 Halle (Saale) Germany phone. +49-345-5526389 fax. +49-345-5527264 email. lattorff@zoologie.uni-halle.de www. http://www.biologie.uni-halle.de/zool/mol_ecol/ lattorff@zoologie.uni-halle.de lattorff@zoologie.uni-halle.de

MichiganStateU EvolGeneticsDevelopment

PhD Studentships in Evolutionary Genetics and Integrative Developmental Biology, Michigan State University, USA.

Four graduate positions in evolutionary genetics/developmental biology are available in the laboratories of Dr. Alex Shingleton and Dr. Ian Dworkin in the Department of Zoology and Program in Ecology, Evolutionary Biology and Behavior at Michigan State University. The positions are funded as part of three NSF grants working at the interface of evolution, development and genetics. The Shingleton and Dworkin laboratories work closely together and employ molecular, genetic, genomic, physiological and behavioral methods to address their research questions, using Drosophila as a model organism. More details on the research being conducted in the laboratories are available at www.msu.ed/ ~ shingle9 and www.msu.edu/~idworkin. Students will be immersed in an integrative and collaborative research experience within the diverse and dynamic life-science community at Michigan State University.

Potential projects for graduate students include:

1) Elucidating the molecular and developmental regulation of morphological scaling relationships. Previous research in the Shingleton lab has identified the insulin-signaling pathway as being differently regulated in organs that differ in their scaling relationship with body

size. The goal of the project is to elucidate the molecular basis for this differential regulation.

2) Exploring the evolution of wing-body scaling in Drosophila populations. This project involves applying artificial selection on scaling relationships in Drosophila and elucidating the genetic and developmental basis for the selection response.

3) Examining the role of conditional and pleiotropic genetic effects in the evolutionary process, and mapping genetic modifiers that contribute to these effects. Previous work (Dworkin et al. 2009) demonstrated that a genetic modifier of the allelic effects of a mutant results in profound difference in phenotypes. The student will fine map the genetic modifier and examine its potential pleiotropic contributions in natural populations.

4) Explore the effects of different genetic backgrounds on gene interactions and ordering of allelic series for mutations that affect wing development and shape. This work will examine the effects of a series of mutations in different "wild-type" genetic backgrounds, across several rearing environments (manipulations of diet and temperature).

The projects will suit students with an interest in evolutionary genetics and/or integrative developmental biology. The ideal candidate should have good general laboratory skills, with a firm grasp of basic statistical methods.

Michigan State University is a large land-grant institution with an outstanding faculty and inter-disciplinary programs at the departmental and university levels. Interested applicants are encouraged to review additional background on faculty and graduate programs in Zoology (http://www.zoology.msu.edu), and in the Ecology, Evolutionary Biology and Behavior (EEBB) program (https://www.msu.edu/~eebb).

Applicants should submit a statement of interest, a CV, GRE scores and their cumulative GPA along with names and contact information of three references (everything as one PDF document) to shingle9@msu.edu. Applications will be accepted until the positions are filled. The start date is September 2010, although applicants who wish to start sooner should also apply.

shingle9@msu.edu shingle9@msu.edu

OhioStateU MarineInvertSystematics

OhioStateU Evolution & Systematics of Marine Invertebrates

Ph.D. Position

I am seeking highly motivated prospective PhD students with a demonstrated ability to work independently to join my research group starting in September 2010. The work being done in my lab ranges from revisionary systematics to experimental and theoretical ecology to molecular systematics to cell ultrastructure. What unites these diverse studies is an emphasis on seeking historical explanations for the diversity of organisms. I am interested in recruiting students who will build on the results of our previous research into Cnidarians by developing their own projects in this area but am equally interested in students who are keen to develop projects in the general area of marine invertebrate systematics. Students who are interested in research that combines both lab and field work are especially encouraged to apply.

Guaranteed funding of $23,000/yr for a minimum of 5 years (plus tuition and partial coverage of health benefits) is available through a combination of Graduate Teaching Assistantships, Research Assistantships, and University Fellowships.

For more information on my lab, see my homepage: http://www.biosci.ohio-state.edu/~eeob/daly/-index.html For information on the Department of Evolution, Ecology, and Organismal Biology at Ohio State University including our Graduate Program, see: http://eeob.osu.edu/ For additional information or to apply please contact me by email and include a cover letter describing your background and why you are interested in my lab, a CV, GRE scores, unofficial copy of your transcripts and contact information for 3 references.

Meg Daly <daly.66@osu.edu>

Portugal Modelling

PhD position in seagrass lagoon-scape genetics

A PhD position is offered to work in the project âLandscape genetics of a coastal lagoon: an empirical and modeling approach using the seagrass /Zostera noltii/ in Ria Formosaâ financed by FCT (Portuguese Science Financing Agency). The successful candidate should hold a European or equivalent Master degree in biology/botany/oceanography/molecular biol-

ogy/mathematics or related field. Prior practical experience in ecological modeling and geographic information systems analysis is preferred, knowledge of population genetics theory and experience with molecular biology techniques (PCR, DNA extraction) is appreciated. The candidate should be motivated for computer analysis and modeling approaches, good team player, and proficient in English (written and oral).

The project focuses on applying innovative landscape genetics analysis to an important lagoon in Southern Portugal the Ria Formosa. The model species is the seagrass /Zostera noltii/ which covers 45% of the intertidal area of the lagoon, also there is the chance to work with /Syngnathus abaster/ a pipefish highly dependent on seagrass habitat.

The project wishes to answer to the following objectives: (a) detect landscape barriers to gene flow, created by either the structural dimension of the landscape or by the hydrodynamic properties in the channel system; (b) analyze the spatial autocorrelation of seagrass allocation strategies (sexual versus asexual population growth) and their relationships to patch size, fragmentation and isolation, as well as their proximity to disturbance sources (sedimentation associated with inlet delta); and (c) understand putative source-sink population dynamics, and its relation to habitat quality, that can be useful for identifying and guiding Natural Park management decisions about protection status of different areas. By fulfilling these goals it will be possible to produce spatial predictions of the metapopulation resilience.

The PhD subject will deal mostly with hydrodynamic modeling of dispersal inside the lagoon, working with an available hydrodynamic model, and integrating the results from modeling dispersal pathways, landscape attributes quantified within this project, and genetic differentiation, all under a Geographic Information Systems (GIS) framework.

The student will also learn the microsatellite analysis technique used to genotype the extensive collections of samples in this project, but is primarily expected to have some prior knowledge of GIS and to have a solid mathematical background.

Most of the work will be conducted at the Centre of Marine Sciences at University of Algarve, in Faro, Portugal, within the Marine Ecology and Evolution group (http://www.ccmar.ualg.pt/maree). The hydrological modeling tasks of this project will run at Porto in CEMAS (centre for modeling and analysis of environmental systems) at University Fernando Pessoa under the supervision of Prof. Pedro Duarte, and is expected that the applicant visits Porto for periods up to six months.

A research assistant grant at the master level is available for 3 years, with similar salary as PhD fellowships in Portugal (approximately 1000â¬$permonth$), $alth oughitisexpectedthatthecandidatehasasuffic$ $July$2010).

Project starts: First semester 2010 (exact date depends on contract release FCT)

For any inquiries please contact: Filipe Alberto

e-mail: falberto@ualg.pt <mailto:falberto@ualg.pt>

URL: http://ccmar.ualg.pt/maree/index.php?t=-falberto – Filipe Alberto Centro de CiÃncias do Mar-CIMAR laboratÃ³rio associado Universidade do Algarve campus de Gambelas 8005-139 Faro Portugal phone: (+351) 289800900 ask for ext:7355 http:/-/ccmar.ualg.pt/maree/index.php?t=falberto Filipe Alberto <falberto@ualg.pt>

QueensCollege NY DiseaseEvolution

Ph.D. Position: Queens College of the City University of New York

I am seeking Ph.D. students to join my research group starting in September 2010 to begin studies of the evolutionary ecology of emerging infectious diseases using a bacteriophage model system. A major research focus of the lab is to develop predictive models of infectious disease emergence based upon studies of phi6 phage able to infect novel host bacteria. I hope to recruit students who will build on the results of our previous phage research by developing their own projects in this area, but am equally interested in students who are keen to develop other projects in the general area of phage evolutionary ecology or systems biology.

Guaranteed funding of over $24,000/yr for a minimum of 5 years (plus tuition waiver and health insurance) is available through a combination of Graduate Teaching Assistantships, Research Assistantships, and University Fellowships. Every student admitted for doctoral study in the EEB subprogram will have financial support for five full years of study, as long as they remain in good academic standing and progress on schedule in their doctoral research.

Queens College is located in the borough of Queens, New York City, and is one of the most diverse municipalities in the world. Located minutes from downtown Manhattan, QC has available almost limitless cultural

opportunities despite a more suburban setting.

For additional information or to apply please contact me by email (john.dennehy@qc.cuny.edu) and include a cover letter describing your background and why you are interested in my lab, a CV, GRE scores, unofficial copy of your transcripts and contact information for 3 references.

For more information on my lab, see my homepage: http://dennehylab.bio.qc.cuny.edu/index.html – Dr. John J. Dennehy Assistant Professor of Biology Queens College and the Graduate Center of CUNY 65-30 Kissena Blvd. Flushing, NY 11367 john.dennehy@qc.cuny.edu Office SB E104 (718) 997-3411 Lab SB E117 (718) 997-3419 or 3420 http://dennehylab.bio.qc.cuny.edu/-index.html http://evilutionarybiologist.blogspot.com/ jdennehy@gmail.com

UAntwerp AvianBehavioralEvolution

The University of Antwerp is a knowledge centre with 3.600 co-workers that performs ground-breaking and innovative research of international standing. The university takes special care to ensure optimum support and supervision of students, and pays constant attention to educational innovation. The university is an autonomous pluralistic institution that is committed to the enhancement of an open, democratic and multicultural society, and it pursues an equal opportunities policy.

The university is seeking to fill the following vacancy (m/f) at the Department Biology-Ethology of the Faculty of Sciences:

Ph.D. student in the field of Avian Behavioral Ecology

Job description: The Ph.D. student will join a group of researchers working on all four major aspects of animal behaviour: causation, development, function and evolution. Recent work of the Ethology group (Head: Prof. Dr. Marcel Eens) is focusing on (1) the function and evolution of bird song with particular attention to costs and constraints that limit the expression of song; (2) the relationships between hormones, behaviour and life histories, including (hormone-mediated) maternal effects The project aims to study the functional and evolutionary consequences of hormone-mediated maternal effects in birds. Maternal effects are thought to have evolved to signal environmental conditions to the offspring ("weather-forecasting"), preparing the offspring for the post-hatching environment. The proximate effects of maternally derived hormones on offspring development have already been studied in great detail, but most of the studies have focused on branding the effects as positive or negative to the offspring. However, this view ignores that changes in offspring development may also provide costs to parents, e.g. via changes in the food demand. Furthermore, (hormone-mediated) maternal effects have the potential to generate crucial evolutionary trade-offs: "what's best for the parents may not be best for an individual offspring". Maternal yolk hormones may therefore not only serve as benign "weather-forecasters", signalling environmental conditions, but enable female birds to manipulate offspring in their interest. We therefore want to know how the effects of maternally derived steroid hormones on offspring development impinge on maternal/parental fitness, and whether maternal yolk hormones serve the evolutionary interests of offspring or mother/father.

Profile and requirements: * You hold a MSc degree in Biology or related fields * You have experience with animal research * You are interested in behavioural ecology and/or endocrinology

We offer: * An initial 1-year contract, extendable up to 4 years after positive evaluation * The position should yield a Ph.D. degree of the University of Antwerp * A dynamic research environment with significant freedom in developing your own research interests * The position can be taken up from November 2009, preferably before February 2010

Interested? Please send all application material including 1) your curriculum vitae 2) a brief (250 words) summary of your motivation and 3) a letter of reference as single PDF-file to wendt.muller@ua.ac.be <mailto:wendt.muller@ua.ac.be> .

Closing date: 30.09.09. Further information can be obtained from: Dr. Wendt Müller, wendt.muller@ua.ac.be <mailto:wendt.muller@ua.ac.be> , phone +32 32652292, http://www.ua.ac.be/wendt.muller < http://www.ua.ac.be/wendt.muller >

Wendt Müller University of Antwerp Department of Biology-Ethology Campus Drie Eiken C-127 Universiteitsplein 1 2610 Antwerp (Wilrijk), Belgium

e-mail: Wendt.Muller@ua.ac.be web: http://-www.ua.ac.be/wendt.muller

tel +32 32652292 fax +32 32652271

Muller Wendt <wendt.muller@ua.ac.be>

UArkansas EntamoebaSystematics

Graduate Student Position (PhD): In Molecular Systematics and Taxonomy of Entamoeba.

Department of Biological Sciences, University of Arkansas, Fayetteville.

PhD. position is available in the lab of Jeffrey Silberman to work on molecular and morphological characterization of Entamoeba that infect invertebrate hosts (with possible expansion to other little-studied host systems).

The project will focus on the molecular phylogeny (1 SSU) of invertebrate infecting Entamoeba accompanied by detailed morphological and life-history descriptions for alpha-taxonomy. Culturing of organisms from infected hosts will be attempted/optimized. Gene sequences will be obtained either from cultured organisms or from 'environmental' PCR from host gut-content DNA. Evolutionary relationships and history will be inferred from molecular phylogenies. Acquisition of multiple genes from each new isolate will be encouraged with the goal of generated a robust, rooted phylogeny.

Taxonomic revision and criteria for species designation and taxonomy of these parasites will be critically evaluated.

Starting date: October 1 2009 or until a suitable candidate is identified.

Contact: Applicants should send a letter of interest, current curriculum vitae, and contact information for three references to:

Dr. Jeffrey D Silberman: Email: jeff@uark.edu

Applicants must meet the admission criteria of the Graduate School at the University of Arkansas and the criteria of the Department of Biological Sciences: http://www.uark.edu/depts/gradinfo/recruit/-applying.html http://biology.uark.edu/ [Min. GPA = 3.0] [Min. TOEFL = 550 (paper), 79 (internet-based), 213 (computer-based)] [GRE required] More information on test requirements can be found at http://test.uark.edu/ . Jeffrey Silberman University of Arkansas Department of Biological Sciences SCEN 738 Fayetteville, AR 72701 Tel: 479-575-2618 (o) Tel: 479-575-8621 (l) Fax: 479-575-4010 email: jeff@uark.edu

jeff@uark.edu

UArkansas EntamoebaSystematics 2

Graduate Student Position (PhD): In Molecular Systematics and Taxonomy of Entamoeba.

Department of Biological Sciences, University of Arkansas, Fayetteville.

PhD. position is available in the lab of Jeffrey Silberman to work on molecular and morphological characterization of Entamoeba that infect invertebrate hosts (with possible expansion to other little-studied host systems).

The project will focus on the molecular phylogeny (1 SSU) of invertebrate infecting Entamoeba accompanied by detailed morphological and life-history descriptions for alpha-taxonomy. Culturing of organisms from infected hosts will be attempted/optimized. Gene sequences will be obtained either from cultured organisms or from environmental PCR from host gut-content DNA. Evolutionary relationships and history will be inferred from molecular phylogenies. Acquisition of multiple genes from each new isolate will be encouraged with the goal of generating a robust, rooted phylogeny.

Taxonomic revision and criteria for species designation and taxonomy of these parasites will be critically evaluated.

Starting date: October 1 2009 or until a suitable candidate is identified.

Contact: Applicants should send a letter of interest, current curriculum vitae, and contact information for three references to:

Dr. Jeffrey D Silberman: Email: jeff@uark.edu

Applicants must meet the admission criteria of the Graduate School at the University of Arkansas and the criteria of the Department of Biological Sciences: http://www.uark.edu/depts/gradinfo/recruit/-applying.html http://biology.uark.edu/ [Min. GPA = 3.0] [Min. TOEFL = 550 (paper), 79 (internet-based), 213 (computer-based)] [GRE required] More information on test requirements can be found at http://test.uark.edu/ . jeff@uark.edu

UBasel SexualSelection

PhD position on 'Sex allocation, sexual selection and sexual conflict in simultaneous hermaphrodites' (earliest starting date is December 2009), Evolutionary Biology, Zoological Institute, University of Basel, Switzerland (http://evolution.unibas.ch).

A full-time 3-year PhD position is available in the group of Dr. Lukas Scharer (http://evolution.unibas.ch/-scharer/). The research in my group focuses on the evolutionary ecology of reproduction in simultaneous hermaphrodites, using a highly suitable model, the free-living marine flatworm Macrostomum lignano. Our research integrates a diversity of approaches, including controlled laboratory experiments, field work, molecular developmental biology, experimental evolution, quantitative genetics, genomics, molecular phylogenetics and comparative methods.

The aims of the advertised PhD position are to better understand mechanisms of post-copulatory sexual selection (i.e. sperm competition and cryptic female choice) and resulting sexual conflicts in simultaneous hermaphrodites. Moreover, current evolutionary theory predicts that sexual selection can profoundly influence the evolution of sex allocation (i.e. how much a hermaphrodite invests in male and female reproduction), and mating partners may experience sexual conflicts over the optimal sex allocation of the partner. Only limited empirical data is currently available to test these ideas. To produce such data the successful candidate will carry out laboratory experiments, molecular paternity analyses, and field work at the Mediterranean Sea.

The Scharer group belongs to the Evolutionary Biology at the Zoological Institute, University of Basel, a very stimulating and highly international research environment with English as the predominant language. The other groups focus on host-parasite interactions (Ebert), speciation in fishes (Salzburger), evolution of the immune system (Du Pasquier), behavioral ecology of birds (Amrhein), parent-offspring conflicts (Kölliker), and the evolutionary impact of transposable elements (Walser) (see http://evolution.unibas.ch/-research.htm). Our Institute has very strong backgrounds in experimental design, statistics, population genetics, quantitative genetics, genomics and molecular biology. It is an ideal place for a PhD candidate interested in evolutionary biology.

The successful candidate should be independent, dedicated, inquisitive, creative, and collaborative. Moreover, he/she should have a keen interest in evolutionary biology and be willing to learn about experimental design and proper statistical analysis. Previous experience in molecular biology is an advantage, but not a prerequisite. A MSc or equivalent education level is required for this position and the very handsome salary is in accordance to the standards of the Swiss National Science Foundation.

Basel is the third largest city of Switzerland and attractively situated at the foot of the Jura mountain range. It has the beautiful river Rhine, and directly borders both Germany and France, thus offering rich culinary, cultural, and outdoor possibilities.

To apply please send a letter of motivation, a CV, a copy of your MSc-thesis (if available), and contact details of 2 referees to lukas.scharer@unibas.ch (electronic applications in a single file are preferred). Reviewing of applications starts on October 10, but candidates will be considered until the position is filled.

For more details about our research please visit http:/-/evolution.unibas.ch/scharer/ . Lukas Scharer

Evolutionary Biology Zoologial Institute University of Basel Vesalgasse 1 4051 Basel Switzerland

Tel: ++41 61 267 03 66 Fax: ++41 61 267 03 62 Email: lukas.scharer@unibas.ch Homepage: http://evolution.unibas.ch/scharer/index.htm lukas.scharer@unibas.ch lukas.scharer@unibas.ch

UBern BehaviorGenomics ReprodIsolation

PhD position - University of Bern, Switzerland

Behavior and genomics of reproductive isolation and hybridization in voles

I am looking for a PhD candidate to work on a project combining fieldwork in hybrid zones, breeding and mate choice experiments, and genomic analyses in the common vole (Microtus arvalis). You will trap voles in or around Switzerland to expand information on hybrid zones among evolutionary lineages, establish and maintain a small breeding colony of voles in the laboratory, and perform mate choice experiments in order to determine the level of pre- and postzygotic reproductive

isolation. Together with other members of the group, you will analyze the genomic consequences of partial reproductive isolation and characterize genes of special interest with state-of-the-art genome sequencing technologies and classical population genetics marker systems.

I am seeking a highly-motivated, independent candidate with excellent organizational skills. The ideal candidate has experience with fieldwork and behavioral experiments with small mammals, a solid background in evolutionary biology and population genetics, and some experience with molecular laboratory work. Experience with bioinformatics is a plus but not essential. A degree equivalent to a biology diploma or M.Sc., and a valid drivers license is required. Good knowledge of written and spoken English is expected. Some knowledge of German or French would be beneficial for living in Switzerland but it is not necessary. The working language in our group is English.

The CMPG offers a stimulating research environment with excellent facilities for laboratory work and computational analyses. We are also part of the Swiss Institute of Bioinformatics (SIB, http://www.isb-sib.ch/-). Information on the research group, the University of Bern, or the beautiful city of Bern and its magnificent surroundings can be obtained from http://-cmpg.unibe.ch/ and http://bern.ch/.

The position is funded by the Swiss National Science Foundation for three years, and the anticipated starting date is January 1st 2010. For informal inquiries, please contact me directly by email.

Please send your application including CV, list of publications, a letter outlining your past research experience and particular motivation for this position (max. 2 pages), and contact details of 2-3 referees in a *_single pdf file_* to gerald.heckel@iee.unibe.ch

PD Dr. Gerald Heckel Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution University of Bern Baltzerstr. 6 CH-3012 Bern Switzerland Tel.: +41 (0)31 631 30 29 Fax: +41 (0)31 631 31 88 Email: gerald.heckel@iee.unibe.ch http://cmpg.unibe.ch/people/heckel.htm Member of the Swiss Institute of Bioinformatics http://www.isb-sib.ch Gerald Heckel <gerald.heckel@iee.unibe.ch>

UCaliforniaLosAngeles PlantEvolutionaryBiol

ASSISTANT RESEARCHER POSITION

in Plant Evolutionary Biology/Molecular Ecology

Department of Ecology and Evolutionary Biology, UCLA

An Assistant Researcher position is available in the lab of Victoria Sork for a research scientist who will oversee and participate in on- going projects, including: phylogeography and environmental genomics of oaks; coevolution of fungal-algae in the lichen, Ramalina menziesii; and molecular ecology of pollen and seed dispersal. Major duties include molecular laboratory work, data management and statistical analysis, and manuscript and grant preparation. Other duties include: overseeing day-to-day management of laboratory including purchasing supplies and equipment; insuring proper operation and maintenance of laboratory equipment; working with undergraduate research assistants; and occasional training of grad students. In addition to weekly lab meetings and discussions, UCLA offers an exciting environment for evolutionary biologists, ecologists, and computational biologists through its myriad seminars, colloquia, and informal activities across campus. Requirements for the position include: a PhD in biology; experience with DNA sequencing and microsatellite markers; statistical skills in population genetics and genomics; and good project management skills. Please apply by September 30, 2009, by sending your c.v., cover letter, and a statement of research interests and experience to Sork Research Position, c/o Ms. Bobbi Fenske, LSSA Personnel Manager, 621 Charles E. Young Drive, Box 951606, Los Angeles, CA 90095-1606. Screening of applications will begin September 8, 2009, and will continue until filled. The position could start as early as October 2009, but the start date is flexible. The initial appointment is for one year, with renewal based on performance. Salary is commensurate with years of post-doctoral experience and education and in accordance with University policy, starting around $55,000-$60,000. For more information, please contact Victoria Sork (vlsork@ucla.edu). UCLA is an Equal Opportunity/Affirmative Action Employer.

Victoria Sork <vlsork@ucla.edu>

UFlorida SexualSelection Insects

A M.S. position is available under the supervision of Dr. Christine W. Miller at the University of Florida. The position is funded by the National Science Foundation

for two years and will begin in June of 2010.

The focus of the larger NSF-funded project is the influence of natural environmental variation on the expression and evolution of ornaments, weapons, and behaviors of sexual selection. The M.S. thesis work will include one or two summertime field seasons in New Mexico and some year-round field work in Florida. The student will also conduct extensive greenhouse breeding of the insects in Florida for behavioral and morphological study. The focal research organism is a cactus bug, Narnia femorata (Hemiptera: Coreidae). Males in this species compete over territories on the fruit of prickly-pear cactus and have enlarged hind legs used in these competitions.

Applicants should possess a B.A. or B.S. in Biology or a closely related field and have a strong background in evolutionary biology and behavior. Selection will be based largely on interest and enthusiasm for the research topic, academic achievements, reference letters, and previous research experience.

To be considered for this position, please send a cover letter outlining your interests and research background, a curriculum vitae (including GPA and GRE scores), and contact information for three professional references (name, email, phone, address) as either a PDF or MS Word file to cwmiller@ufl.edu with "Sexual selection M.S. position" in the subject line. Informal inquiries are welcome.

More information on research in the laboratory of Dr. Christine W. Miller and the Entomology and Nematology Department at UF are available at www.millerlab.net. Review of applications will begin September 15, 2009 and will continue until September 25th , or until an outstanding candidate is found.

Christine W. Miller University of Florida Entomology & Nematology Dept. PO Box 110620, Bldg 970 Natural Area Dr. Gainesville, FL 32611-0620 Phone: (352) 273-3917 Fax: (352) 392-0190 Email: cwmiller@ufl.edu<mailto:cwmiller@ufl.edu> Website: www.millerlab.net< http://www.millerlab.net/ >

"Miller,Christine Whitney" <cwmiller@ufl.edu>

UGroningen AvianEvolutionaryBiol

TheResearch Group Animal Ecology, Centre for Ecological and Evolutionary Studies(CEES), Faculty of Mathematics and Natural Sciences of the University of Groningen,has a Âvacancy for a full-time PhDposition:

Â PhD position:fitness under competition Â

Thisis a PhD position for a person who loves to do intensive fieldwork on birds ina clear theoretical context. The project aims to understand the role of ecological-factors in determining the survival cost of parents of raising a family. Althoughthis survival cost is central to life history theory, paradoxically, it hasbeen difficult to demonstrate it in the field. One aspect that has been largelyoverlooked is that this cost not only depends on individual work load, but alsoon the competitive environment an individual is living in. The basic idea forthis project is that if individuals have to work harder to raise a brood, they losecompetitive ability by which they may have reduced survival in highlycompetitive environments. Â

Background: This PhD project ispart of a large research program onÂfitness consequences ofÂindividual trait variation in the great tit in The Netherlands. In our16-year population study in a spatially fragmented population of great tits thefocus has been on density dependence and quantifying selection pressures onreproductive traits. Using an experimental approach we studied how offspring dispersaland fitness was related to brood size, brood sex ratio and to local sex ratioand density in the fragments.

This project: takes up the challenge toquantify how ecological settings interact with the cost of reproduction and addressesthe question: âIs parental competitiveability affected by reproductive rate?âWe learned that the socialenvironment did affect both offspring and parental fitness. An intriguingresult was that the cost of reproduction was affected by the social environment, withparents raising experimentally enlarged broods showing higher mortality in morecompetitive situations. This important effect could be the motor behindselection for reduced reproductive rates under high competition (densitydependent reproduction), which may have large repercussions for future fitness.The differential mortality took place in the second half of the winter leadingto the hypothesis that raising large families did not have direct survivaleffects but affected the competitive ability of the parents leading to lowersurvival later at times of higher competition.

To test this idea we will 1) manipulate the local social environment in termsof competition in our subpopulations and measure how fitness costs andbenefits of reproductive rate are affected, 2) quantify resources, their use bythe tits, sex specific dispersal and survival of both offspring and parents inrelation to the local social environment and the reproductive rate in thefield. 3) test the competitive ability of the parents in

a semi-lab situation,and, 4) manipulate important resources for the birds (nest boxes) in the secondhalf of the non-breeding season to study if and how competitive ability ofparents raising large families are affected. With this approach we will study anew mechanism that may lead to adaptive density dependent reproductive rates,as well as the costs of reproduction more in general.

Research group: The PhD will workin the animal ecology research group which is part of the research instituteCenter for Ecological and Evolutionary Studies (CEES) of Groningen University,The Netherlands. Prof. Dr. Joost M. Tinbergen, Dr. Christiaan Both and Prof Dr.Ir Jan Komdeur will supervise the work, and in the field Richard Ubels, JoostTinbergen and a second PhD student will take part in the experimental work inthe Lauwersmeer.

Information about the positioncan be obtained from: Joost Tinbergen (++(31)-50-3632065, j.m.tinbergen@rug.nl), Christiaan Both(++(31)-50-3632235, c.both@rug.nl) or JanKomdeur

(++(31)-50-3632056,j.komdeur@rug.nl),

Â

Candidates must have a degreein biology, with specialisation in ecology, and a driverâs license. We arelooking for an enthusiast researcher with ample experience in field research onbirds (colour ring reading!). Theoretical interest in evolutionary ecologicalresearch is a prerequisite and it is an advantage if candidates have provenwriting skills (viz. research papers).

Â

Informationabout the position can be obtained from: Joost Tinbergen (++(31)-50-3632065, j.m.tinbergen@rug.nl), Christiaan Both(++(31)-50-3632235, c.both@rug.nl) or JanKomdeur (++(31)-50-3632056, j.komdeur@rug.nl),

http://www.rug.nl/biologie/onderzoek/-onderzoekgroepen/dieroecologie/index http://-www.rug.nl/biologie/onderzoek/onderzoekinstituten/-cees/index

Â

Conditions of employment

— / —

UGroningen BirdEggEvolution

The research groups Animal Ecology and Microbial Ecology of the Centre for Ecological and Evolutionary Studies (University of Groningen, the Netherlands) have a vacancy for a PhD-position:

Project “How microbes shape bird eggs: matching pathogen risk and protection”

Microbes are everywhere. On birds, in birds, and around birds. Birds and eggs need to protect themselves from pathogenic influences, but may also benefit from the microbial communities that they house. This project explores how environmental conditions shape variation in microbial communities and thereby have evolutionary consequences for the protective systems of birds against microbes. We use the egg-nest unit as a simple model system to study the association between microbial communities (of the nest environment) and antimicrobial defenses (of the eggs). Inside an egg, invading microbes encounter a nutrient-rich environment. To protect the developing embryo from infection and death the egg employs antimicrobial defenses. When compared with the complex immune system of birds, the antimicrobial defense of eggs is simple. It consists of physical barriers (shell and membrane) and a chemical defense composed of several antimicrobial proteins. The project consists of two parts: 1. experimentally manipulating the nest microbial community and looking at effects on the antimicrobial defenses of eggs in captive birds, and 2. performing a comparative study on eggs of wild birds across a range of environmental conditions. Molecular tools from microbial ecology as well as immunological assays will need to be further developed and fine-tuned for this bird-project. This project fits in a larger research program focused on understanding how environmental pathogen pressure and avian immune defenses interact and vary across space and time.

REQUIREMENTS We are looking for an enthusiastic and broad-minded candidate interested in integrating microbial and animal ecology. Ideally, you are a microbial ecologist with a passion for birds, or an animal ecologist with a special interest in microbes. A background in veterinary or animal science is also possible. You have experience with microbiological and biochemical laboratory work. Affinity with work on birds, in captivity and in the field, will be an advantage.

INFORMATION For more information please contact Dr. Irene Tieleman or Dr. Joana

Salles (J.Falcao.Salles@rug.nl), or check: http://-www.rug.nl/biologie/onderzoek/onderzoekgroepen/-eep/index http://www.rug.nl/biologie/onderzoek/-onderzoekgroepen/dieroecologie/index http://-www.rug.nl/biologie/onderzoek/onderzoekgroepen/-microbieleoecologie/index http://www.rug.nl/-biologie/onderzoek/onderzoekinstituten/cees/index

CONDITIONS OF EMPLOYMENT The University of Groningen offers a PhD-fellowship (ca. ?1600 per month) for a period of four years that should be completed with the defense of a PhD-dissertation. After one year, the performance of the candidate will be evaluated to decide whether there is sufficient progress to expect a successful completion of the PhD-thesis within the remaining three years. A training program is part of the PhD-trajectory. You and your supervisors will design a plan for additional education and supervision tailored to your specific needs. Your supervisors will be Dr. B. Irene Tieleman and Dr. Joana F. Salles.

APPLICATION Applicants should send a 1-page statement of research interests, motivation for this project and academic/professional goals; a complete CV; copies of publications; and names and contact information of two referees who can supply letters of recommendation upon our request.

Please send applications by email before 15 October 2009 to: Dr. B. Irene Tieleman (B.I.Tieleman@rug.nl), please mention MICROBIRD in the subject.

B.I.Tieleman@rug.nl B.I.Tieleman@rug.nl

UIdaha ConservationGenetics 2

University of Idaho ' Tropical Agricultural Research and Higher Education Centre (CATIE) San Juan ' La Selva Biological Corridor, Costa Rica Team PhD Assistantship Announcements

Interdisciplinary PhD Research Assistantships in Ecology, Conservation Biology, Sustainable Rural Livelihoods and Resilience of the San Juan ' La Selva Biological Corridor, a crucially important Mesoamerican landscape. Four Ph.D. research assistantships will be available to join a collaborative team working on aspects of conservation and sustainable rural livelihoods in the San Juan ' La Selva Biological Corridor, a crucially important human-dominated landscape managed to provide ecological connectivity between the protected areas of southeastern Nicaragua and those of Costa Ricas Central Volcanic Cordillera.

The linked dissertation projects will work in the context of an outstanding biological corridor management initiative that seeks to attain conservation goals while meeting the challenges posed by a dynamic agro-export sector and a growing low-income rural population. With funding from the National Science Foundation[1]s Integrative Graduate Education and Research Traineeship program (IGERT), the individual fellows will pursue disciplinary research important for the overall theme, and work together to identify and address interdisciplinary issues critical for development of effective corridor policy, management planning and implementation. The team will interact with members of five other IGERT-sponsored student/faculty teams pursuing similar objectives in other ecosystems in which sustainability and conservation in the face of changing conditions and pressures is desired.

PhD Assistantship in sustainable rural livelihoods of small farmers and agricultural workers in a major Mesoamerican biological corridor. Seeking a highly motivated and qualified student to research rural livelihood dynamics of smallholders and landless people in the corridor, and to determine the extent to which these are shaped by market forces and the overall political-legal and institutional framework. A mix of quantitative and qualitative methods will be used to determine livelihood security and potential trade-offs between conservation and development goals, and to identify viable options for minimizing the trade-offs. In addition, the student will conduct collaborative research to examine interdisciplinary aspects of conservation in the dynamic human dominated landscape that constitutes the corridor with team members in fields such as bat conservation biology, reproductive ecology of tree species, and forest ecology. Contact Dietmar Stoian (stoian@catie.ac.cr) and Leontina Hormel (lhormel@uidaho.edu).

PhD Assistantship in ecology and conservation genetics of pollination and seed dispersal mutualisms involving bats and trees. Seeking a highly motivated and qualified student to research conservation ecological questions of fundamental importance to the functioning of this major Mesoamerican biological corridor, using nectarivorous and frugivorous bats and their mutualistic tree species as a model system. Habitat and resource use by bat species in logged and fragmented lowland rain forest and adjacent agricultural habitats will be characterized and bat movement patterns determined in relation to different types of human impact. Modeling techniques will be used to explore the implications of the results for corridor management for functional connectivity for flying vertebrates. In ad-

dition, the student will conduct collaborative research to examine interdisciplinary aspects of conservation in the dynamic human dominated landscape that constitutes the corridor with team members in fields such as reproductive ecology of tree species, forest ecology and sustainable rural livelihoods. Contact Lisette Waits (lwaits@uidaho.edu) and Fabrice DeClerck (fdeclerck@catie.ac.cr) .

PhD Assistantship in reproductive ecology of bat-pollinated and bat-dispersed tree species. Seeking a highly motivated and qualified student to research conservation ecological questions of fundamental importance to the functioning of this major Mesoamerican biological corridor, focusing on the reproductive ecology (from pollination to seedling establishment) of bat-pollinated and bat-dispersed tree species in logged and fragmented lowland rain forest and adjacent agricultural habitats. Modeling techniques will be used to explore the implications of the results for corridor management for functional connectivity for bat-dependent tree species. In addition, the student will conduct collaborative research to examine interdisciplinary aspects of conservation in the dynamic human dominated landscape that constitutes the corridor with team members in fields such as bat conservation biology, forest ecology and sustainable rural livelihoods. Contact Bryan Finegan (bfinegan@catie.ac.cr) and Lisette Waits (lwaits@uidaho.edu)

— / —

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

UIdaho ConservationGenetics

University of Idaho NSF IGERT PhD Assistantship Announcements Palouse Prairie Research Team

Interdisciplinary PhD Research Assistantships in Conservation Biology, Sustainable Production and Resilience of the Palouse Prairie Ecosystem. Up to five Ph.D. research assistantships will be available to join a collaborative team working on aspects of conservation of the endangered Palouse Prairie ecosystem in the context of bioregional planning in southeastern Washington State and Northern Idaho. The linked dissertation projects will work in the context of expected exurban development and sustainable agricultural production in the region. With funding from the National Science Foundation[1]s Integrative Graduate Education and Research Traineeship program (IGERT), the individual fellows will pursue disciplinary research important for the overall theme, and work together to identify and address interdisciplinary issues critical for development of effective planning and policy. The team will interact with members of five other IGERT-sponsored student/faculty teams pursuing similar objectives in other ecosystems in which sustainability and conservation in the face of changing conditions and pressures is desired.

PhD Assistantship in Soil Biogeochemistry. Seeking a highly motivated and qualified student to pursue the study of soil-plant relations and feedbacks in the endangered Palouse Prairie. The student will contribute to our understanding of resiliency in this unique ecosystem that is increasingly threatened by invasive weed species and urban sprawl. Research will focus on: 1) the importance of soil and site properties in determining the likelihood of invasion, and 2) the impact of invasive species on processes that control carbon storage and nutrient availability. In addition, the student will conduct collaborative research to examine interdisciplinary aspects of conservation of Palouse Prairie within a dynamic, human dominated landscape with team members in fields such as entomology, conservation/restoration plant ecology, virus ecology, and rural and community economics. Contact Jodi Johnson-Maynard (jmaynard@uidaho.edu).

PhD Assistantship in Entomology and Landscape Genetics. Seeking a highly motivated and qualified student to pursue the study of populations of native insects linked to the ecological communities specific to the Palouse Prairie, now existing exclusively as widely distributed small remnants. Target populations will be key pollinators, specialist herbivores affecting predominant plant species and other indicator species. Research will focus on: 1) determining the genetic diversity and structure of arthropod populations, 2) examining how behavioral and ecological correlates of genetic structure influence level of landscape connectivity, and 3) assessing elements required to sustain connectivity as part of conservation plans. In addition, the student will conduct collaborative research to examine interdisciplinary aspects of conservation of Palouse Prairie within a dynamic, human dominated landscape with team members in fields such as soil science, conservation/restoration plant ecology, virus ecology, and rural and community economics. Contact Sanford D. Eigenbrode (sanforde@uidaho.edu <mailto:sanforde@uidaho.edu>) and Lisette Waits (lwaits@uidaho.edu).

PhD Assistantship in Conservation/Restoration Plant

Ecology. Seeking a highly motivated and qualified student to pursue restoration ecology research within the Palouse Prairie and related canyon grassland systems of Northern Idaho. The field research will develop restoration methods appropriate for a range of plant communities at various stages of secondary succession to enhance resilience of those plant communities. The outcome of the research will include development of a decision tool to assist those actively involved in restoration. Research may include: 1) sequence of introduction of native species, 2) seeding techniques, 3) invasive plant management, 3) species selection for seed mixes that may incorporate native annuals, and 4) feasibility of establishment of biological soil crust. In addition, the student will conduct collaborative research to examine interdisciplinary aspects of conservation of Palouse Prairie within a dynamic, human dominated landscape with team members in fields such as soil science, entomology, virus ecology, and rural and community economics. The student must have a strong desire for collaboration with other students within or attached to the IGERT program. Contact Tim Prather (tprather@uidaho.edu).

PhD Assistantship in Rural and Community Economics. Seeking a highly motivated and qualified student to pursue the study of rural community economics and social dynamics found in the Palouse Prairie region, including both patterns of decline and revitalization. The student will contribute to our understanding of patterns and perceptions affecting rural community

— / —

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

ULaval SalmonidGenomics

Ph.D. POSITION IN SALMONID ECOLOGICAL GENOMICS AND EVOLUTION

I am currently looking for an outstanding Ph.D. candidate with solid laboratory and bioinformatics skills, to be involved in our long-term research program on the ecological genomics of sympatric forms of whitefish (Coregonus spp.) engaged in the early stages of speciation process. This multidisciplinary project is funded by NSERC (Canada) and part of the research program of the Canadian Research in Genomics and Conservation of Aquatic Resources.

The combined use of gene mapping, population genomics and transcriptomics recently allowed the identification of over 500 genes representing a vast array of physiological functions that are candidates for the adaptive divergence and reproductive isolation of these sympatric forms. By means of the latest technological developments (e.g. next-generation sequencing and high-throughput genotyping), the selected candidate could address some of the following questions that we are particularly interested in: What are the size, distribution and nature of genomic islands of divergence that are being maintained in the face of ongoing gene flow? Can natural selection be strong enough to maintain species cohesiveness by favouring the spread of alleles that are advantageous within a same form (limnetic or benthic)? Are adaptations to similar ecological niches that evolved independently due to the same mutations? Do alleles conferring their specificity to limnetic and benthic whitefish emerge from standing genetic variation or new mutations? What are the relative contributions of regulatory and structural changes to the speciation process of whitefish?

I am primarily looking for a candidate that would present the profile for quickly applying for a Vanier Canada Graduate Scholarships (Vanier CGS) http://www.vanier.gc.ca/hp-pa-eng.shtml. This very highly competitive scholarship program is designed to attract and retain in Canada world-class doctoral students by offering a substantial financial award to assist them during their studies at Canadian universities. Vanier Scholars are expected to demonstrate leadership skills and exceptional standard of scholarly achievement in natural sciences and engineering. Canadian and international students are eligible to be nominated for a Vanier Scholarship, which is valued at $50,000 per year for up to three years.

As the first step of the selection process must be completed before October 2nd, interested candidates should very quickly contact me by e-mail with a cover letter describing research interests, a complete CV, grade records,and names of three references sent to: Louis.Bernatchez@bio.ulaval.ca

To know more about … Quebec City: http://www.quebecregion.com/e/ Universite Laval : http://www.ulaval.ca/ Canadian Research Chair in Genomics and Conservation of Aquatic Resources (and a list of our publications): http://www2.bio.ulaval.ca/louisbernatchez/presentation.htm

Louis BernatchezInstitut de Biologie Intégrative et des Systèmes (IBIS) Université Laval Québec

(QC)CanadaTél.: 1 418 656-3402Téléc.: 1 418 656-7176Courriel: Louis.Bernatchez@bio.ulaval.ca Web: http://www.bio.ulaval.ca/louisbernatchez/ Louis Bernatchez <Louis.Bernatchez@bio.ulaval.ca>

ULaval SprucePopulationGenet

Hello,

Our group at Laval University in Québec City would like to post an offer for a graduate student scholarship in Forestry (Population genetics of wood properties in white spruce).

Graduate assistantship (M. Sc.) Population genetics of wood properties in white spruce. Center for Forest Research and Institute for Integrative and Systems Biology (IBIS) Laval University (Quebec, Canada) A graduate assistantship is available for a Master's degree in forest sciences at Laval University to investigate the genetic variability of wood properties among populations of white spruce trees (Picea glauca). The project is a partnership between the Canadian Wood Fibre Center (CWFC) (Dr J. Beaulieu), Laval University (Dr J. MacKay) and the Ministry of Natural Resources and Fauna of Quebec. The impact of genetics on the variability of wood properties will be investigated by comparing populations from several distinct eco-regions. The specific goals are as follows:

* Quantify the variability of wood fibre traits among white spruce populations from different ecoregions in Quebec;

* Investigate correlations between wood fibre traits and growth conditions such as the site index and stand structure in order to develop predictive models for wood quality;

* Verify the degree of relatedness between sampled trees by using DNA markers in order to: i) assess the potential impact of genetic relatedness on correlations between traits and growth conditions or ii) use it as a variable in the models.

Laboratory work mainly includes DNA extractions and genotyping of several markers to estimate the degree of relatedness between trees from different ecoregions. Statistical analysis of wood and fibre property data will assess if significant variation can be attributed to the origin of the trees (ecoregions) and to develop mathematical models to predict wood properties. The results will find application in applied tree breeding programs. A stipend of 16000 $ (CAN) per year is available for a two year period starting as early as January 2010. Laval University is a French language institution which welcomes many international students, and offers high quality graduate training and access to modern and well-equipped laboratories in the areas of forest genetics and genomics within the Institute for Integrative and Systems Biology (IBIS). Contact Dr John Mackay, by email john.mackay@sbf.ulaval.ca (Department of wood and forest sciences, Laval University, Quebec, Quebec, Canada, G1K 7P4, http://www.arborea.ulaval.ca/-project_team/principal_investigators/john_mackay/-index.html).

If you need any additional information, please do not hesitate to contact me.

Sincerely yours,

Claudia Careau Administrative assistant Centre for Forest Research Charles-Eugene-Marchand Building, office 2155 1030 avenue de la Médecine Laval University Quebec, Quebec G1V 0A6 Phone: 418-656-3703 Fax: 418-656-7493

claudia.careau@sbf.ulaval.ca

UOklahoma DaphniaEvolution

Graduate Research Assistantship (GRA)/Ph.D. student position available: A Ph.D. student position is available in my laboratory to work on a new 3-year NSF-funded project entitled, -environment interactions V impact of cultural eutrophication on Daphnia tracked by genomics, physiology, and resurrection ecology.

In a planned 36-month project in collaboration with colleagues at Oklahoma State University and Indiana University, the PIs will use an integrated approach involving genetic/genomic, physiological, and ecology methods to examine how cultural eutrophication (i.e., enrichment of freshwater systems with nutrients such as phosphorus) influences evolutionary changes in organisms. The waterflea, Daphnia pulex, which plays a major role in freshwater food webs (i.e. it eats algae/bacteria and in turn is fed upon by fish), will serve as the model organism. Daphnia are ideal for such studies because they produce resting eggs that can lay dormant in lake sediments for long periods of time. Decades-old eggs can be induced to hatch (i.e. ecology) and viable DNA can be extracted from eggs that are

centuries old. Moreover, the D. pulex genome has been sequenced and genetic/genomic methods (i.e. gene expression) are in place to study how changes in eutrophication (phosphorus-level) patterns over the past century have influenced how an organism like a daphniid can respond to ecosystem/environmental change. Results from this cross-disciplinary study will provide an excellent example of how man-made environmental changes (via eutrophication) influence natural (freshwater) ecosystems.

For more details and information, please contact:

Dr. Lawrence J. Weider, Professor of Zoology Director, The University of Oklahoma Biological Station (UOBS) University of Oklahoma Norman, OK 73019 Phone: 1-405-325-4766 or 325-7438 FAX: 1-405-325-0835 ljweider@ou.edu<mailto:ljweider@ou.edu> http://-www.ou.edu/uobs/weider.html "Weider, Lawrence J." <ljweider@ou.edu>

UOsnabruck Germany TermiteEvolution

The Department of Biology at the University of Osnabrück (Germany) invites applications for a

PhD Position (E13/2) Caste differentiation in termites

The department is seeking highly motivated candidates with experience and research interests in the area of molecular evolutionary ecology. Ideally, the candidate should be familiar with Quantitative Realtime PCR and RNA Interference. The applicant should have a strong background in evolutionary biology, preferentially working with social organisms (vertebrates, or invertebrates). The student will have the opportunity to travel to Australia.

The position is available starting Nov 2009 for three years. Review of applications will occur until the position is filled.

The University of Osnabrück is committed to equal opportunity in employment and gender equality in its working environment. We strongly encourage applications from qualified women. Applications from appropriately qualified handicapped persons are also encouraged.

Applicants should send by email (Judith.Korb@biologie.uni-osnabrueck.de) a cover letter, CV, statement of research interests and skills, and names, telephone numbers, and email addresses of three references. Alternatively, it can be posted to the Dean of the Department of Biology/Chemistry, University of Osnabrück, Barbarastraße 11, D-49069 Osnabrück, Germany. Applications for this position are required by Sept 30th 2009. For further information please contact Prof. Dr. Judith Korb, e-mail: Judith.Korb@biologie.uni-osnabrueck.de

Publications on the system from our group include the following. Others can be found on our website: http://www.biologie.uni-osnabrueck.de/-Verhaltensbiologie/Korb/index_en.html Korb J, Weil T, Hoffmann K, Foster, K R, Rehli, M (2009) A gene necessary for reproductive suppression in Termites. Science 324:758 Weil T, Korb J, Rehli M (2009) Comparison of queen-specific gene expression in related lower termite species. Mol. Biol. Evol. 26 1841-1850 Korb J, Hartfelder K (2008) Life history and development - a framework for understanding developmental plasticity in lower termites. Biol. Rev. 83:295-313 Weil T, Rehli M, Korb J (2007) Molecular basis for the reproductive division of labour in a lower termite. BMC Genomics 8:e198

Prof. Dr. Judith Korb Behavioral Biology University of Osnabrueck Barbarastr.11 D-49076 Osnabrueck Germany

Phone: ++(49) (0)541 9693496 Fax: ++(49) (0)541 9692862 email: judith.korb@biologie.uni-osnabrueck.de

"Korb, Judith" <Judith.Korb@Biologie.Uni-Osnabrueck.DE>

UppsalaU SexRoleReversal

Postgraduate (PhD) position (doktorandtjänst) in Animal Ecology

The Department of Ecology and Evolution at the University of Uppsala seeks a new PhD candidate for the project "The evolution of sex-role reversal in seed beetles".

Recent research on sexual selection and mating system evolution have shown that the evolution of sex differences can be more complex than previously appreciated. Although this does not undermine our general understanding of the evolutionary mechanisms involved, several areas are poorly understood. For example, the study of sexual selection in females has received little attention and our understanding of the evolution of sex-

role reversal is incomplete. Seed beetles (Bruchidae) is a model system which is very amenable for doing experimental work. This project will study a seed beetle genus (Megabruchidius) in which the conventional sex-roles are reversed, such that females search for mates, court males actively and males seem discriminating. Topics may include describing the economics of this mating system, studying sexual selection in females, quantifying Bateman gradients and will include a long-term experimental evolution study. A comparative approach is also possible, as we harbor several closely related species with conventional sex-roles in the laboratory. The ultimate goal is to develop an understanding of the evolution of sex-role reversal in this system.

The successful candidate should have a MSc (or equivalent) in biology/ecology and a strong interest in evolutionary biology and behavioral ecology. The candidate will join a collaborative and growing research group, currently consisting of 1 other PhD student, 2 postdoctoral associates, one senior scientist (Göran Arnqvist) and several affiliated members of the lab. Göran Arnqvist will function as a supervisor (see < http://www.ebc.uu.se/zooeko/GoranA/GA.html >http://www.ebc.uu.se/zooeko/GoranA/GA.html) and the candidate will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (see < http://www.ebc.uu.se/index_eng.php >http://www.ebc.uu.se/index_eng.php). This position is financed for four full years, and the successful candidate will receive a postgraduate fellowship the first year (15.500 SEK/month) and a postgraduate position year 2-4 (20.400 - 23.600 SEK/month).

Applications should include (1) personal information/background, (2) complete CV (3) a description of undergraduate training, (4) an authorized copy of the undergraduate degree and (5) the names and email addresses of two-three referees. Applications should be sent to Göran Arnqvist, Dept. of Animal Ecology, EBC, Norbyv. 18D, University of Uppsala, SE-752 36 Uppsala, Sweden. Please feel free to contact Göran Arnqvist by email (Goran.Arnqvist@ebc.uu.se) or by phone (+46-18-4712645) for more information. Closing date for applications is October 1, 2009, and the starting date is as soon as possible (Nov/Dec 2009).

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

Email: Goran.Arnqvist@ebc.uu.se Phone: +46-(0)18-471 2645 Cell phone: +46-(0)70-2935032 Fax: +46-(0)18-471 6484 Homepage with PDF downloads and more at: http://www.ebc.uu.se/-zooeko/GoranA/GA.html goran.arnqvist@ebc.uu.se goran.arnqvist@ebc.uu.se

UStAndrews EnzymeEvolution

PhD project: Modelling the Evolution of Enzyme Catalysis

supervisor: Dr John Mitchell, Biomolecular Sciences, University of St Andrews funding details: Competition Funded Project - UK/EU Students only closing date: 30 Sept 2009

Contact: jbom@st-andrews.ac.uk +44-1334 467259

In this project, we will develop a computational model for how enzyme mechanisms evolve. Our group's previous work has developed reaction step fingerprints containing information about how the bond order, charge, and chemical connectivity change in each reaction step in our MACiE database of enzyme-catalysed reactions. The fingerprints provide a fine-tuneable means of quantifying mechanism-based similarities between enzyme-catalysed chemical reactions, which can also be used for clustering. First, the pairwise similarities between the steps in two reactions are computed. A global alignment between the two series of steps is then performed using the Needleman-Wunsch algorithm, just as for sequence alignment in bioinformatics. Existing evolutionary models are designed for comparing DNA or protein sequences, and consider insertions, deletions and mutations as the units of evolutionary change. However, an evolutionary model for reaction mechanisms must be adapted in order to compare chemical reactions.

We will create a simulation using a population of model enzyme-catalysed reactions, mimicking a state early in evolutionary history, and allow them to evolve in EC space. The reactions will consist of steps and be represented, in a manner familiar from genetic algorithms, by "chromosomes" describing the chemical properties of each step. Parameters will control the likelihood of different kinds of evolutionary event, such as a change of substrate with the same underlying chemical mechanism, taking place. The simulations will be calibrated, and then compared with the results from a study of real-world convergent and divergent evolution.

– Dr John Mitchell Biomolecular Sciences University of St Andrews North Haugh St Andrews Scotland KY16 9ST United Kingdom +44-(0)1334-467259

jbom@st-andrews.ac.uk jbom@st-andrews.ac.uk

UTexasAustin EvolutionaryAdaptation

The Juenger, Hawkes, and Keitt Labs in the Section of Integrative Biology at the University of Texas at Austin invite prospective students to apply for graduate studies under the nexus of a newly-funded 4-year project exploring switchgrass (Panicum) ecological and evolutionary responses to climate change, funded by the National Science Foundation. The project will blend genomic, experimental and modeling approaches to address spatial and temporal variation in switchgrass biomass production across North America. Switchgrass is a biofuel candidate species already in production. The ideal student would engage in an interdisciplinary program of training and research taking advantage of the breadth of expertise available among the participating labs. Co-advising arrangements are strongly encouraged. Research assistantships will be available to qualified applicants, although it is expected that students would also gain teaching experience though teaching assistantships during part of their tenure. Students may apply through UT's graduate programs in Ecology, Evolution and Behavior (EEB), Plant Biology or Computational Sciences, Engineering and Mathematics (CSEM).

Interested students should contact one or more of the PI's as soon as possible. Please include a PDF file with a CV, GRE scores and a statement of research interests.

For more information on graduate programs visit: http://www.biosci.utexas.edu/graduate/-eeb/ http://www.biosci.utexas.edu/graduate/-plantbio/ http://www.ices.utexas.edu/cam/ For more information on our research programs visit: http://www.keittlab.org/ http://-www.biosci.utexas.edu/IB/faculty/JUENGER.HTM http://www.biosci.utexas.edu/ib/faculty/hawkes/-lab/ Thomas Juenger University of Texas at Austin Section of Integrative Biology 1 University Station, C0930 Austin, Texas 78712 512-232-5751

tjuenger@austin.utexas.edu
tjuenger@austin.utexas.edu

UVienna PlantEvolution

PhD position in plant molecular cytogenetics/genome evolution

One full-time PhD position in plant molecular cytogenetics/genome evolution is available for 3 years in the Department of Systematic and Evolutionary Botany, University of Vienna, Austria starting November 2009.

The position is part of the FWF (Austrian Science Fund) project "Origin and genome evolution of chromosomal races in the polyploid complex of Prospero autumnale (Hyacinthaceae)". The project focuses on a chromosomally highly variable monocotyledonous plant complex which comprises diploids with different base chromosome numbers (x = 5, 6, 7), as well as numerous auto- and allopolyploids. Essentially, every known form of chromosome mutation has been detected in this group. A thorough investigation of the cytological features of this remarkable group employing repetitive DNA analyses and the interpretation of changes in a sound phylogenetic context will allow addressing evolutionary questions concerning the origins, mechanisms, directions and frequencies of chromosomal changes. Ultimately it will allow establishment of the role of chromosome change in race formation and speciation.

The project is based on an integrative approach utilizing molecular cytogenetic and molecular biology techniques, bioinformatics (analyses of deep-sequencing data) and molecular phylogenetic approaches. Project will be performed in international collaboration with the groups in UK (Dr. A. Leitch, Dr. I. Leitch, Dr. J. Parker), and in Czech Republic (Dr. J. Macas).

The successful candidate should hold a European or equivalent Master degree in biology/botany/molecular biology or related field. Prior practical experience in plant cytogenetics (chromosome preparation, FISH) and basic molecular biology techniques (PCR, DNA labeling, cloning) is preferred. The candidate should be motivated, good team player, and proficient in English (written and oral).

Please send an application including CV, a list of publications, a brief outline of research experience and scientific interests (max. one page), and two reference letters. Review of applications will begin immediately and continue until 1st of November 2009.

For further information or to apply for the posi-

tion please contact: Dr. Hanna Schneeweiss University of Vienna Rennweg 14, A-1030, Vienna, Austria hanna.schneeweiss@univie.ac.at Many thanks,

Hanna Schneeweiss

Hanna Schneeweiss Department of Systematic and Evolutionary Botany, University of Vienna, Rennweg 14, A-1030 Vienna Austria

Tel. 0043 1 4277 54149 Fax 0043 1 4277 9541 hanna.schneeweiss@univie.ac.at http://-www.botanik.univie.ac.at/systematik/personnel/-weiss.htm

Hanna Schneeweiss <hanna.schneeweiss@univie.ac.at>

UZurich EvolvedPhysiology

Hormones, Metabolism and Behavior:

Interactions and Causal Relationships

We are looking for a PhD candidate to study causal influences of hormones on alternative male reproductive tactics in the African striped mouse (Rhabdomys pumilio). The main aim of our research group is to understand the evolved physiological mechanisms that allow animals to behave adaptively in a changing environment. In the proposed study we want to test for a causal influence of hormones on social behavior while taking into account interactions between the different hormones and resting metabolic rate. The study will be based at the University of Zurich and all experiments will be conducted with a captive colony, for which the PhD student will be responsible. The study will use methods of hormone manipulations via implants, hormone measurements, measurements of oxygen consumption (RMR) and behavioral observations. See the summary below.

We are seeking a highly-motivated, independent candidate with excellent organizational skills. The ideal candidate has a background in evolution, animal behavior, behavioral endocrinology, or physiology, some experience with animal handling, laboratory work, and experience in experimental design and statistical analysis of data. A degree equivalent to a diploma or MSc in Biology is required. Good knowledge of written and spoken English is essential. The working language in our group is English. Some knowledge of German would be beneficial for living in Switzerland but is not necessary.

The PhD student will be responsible for the captive colony of striped mice (1 room), including cleaning of cages and all other aspects of animal care. Management of a captive colony of rodents includes euthanizing striped mice to keep the size of the colony down and after experiments. The student will have to visit of course of laboratory animal care at the University of Zurich, paid by us.

The student will be supervised by Dr. Carsten Schradin and be part of the research group studying striped mice (see www.stripedmouse.com). The student will be based at the Department of Animal Behavior at the Zoological Institute of the University of Zurich (www.zool.uzh.ch). Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities (http://www.zuerich.com)

The position is funded for two years, and the salary follows the Swiss National Science Foundation scale (CHF 39 600 for the first year, CHF 42 600 for the second year). The student is expected to apply for funding for a third year and for research expenses from other foundations, for example from the Forschungskredit, a foundation based at the University of Zurich (http://www.researchers.uzh.ch/promotion/-forschungskredit.html). The student will get full support from Dr. Carsten Schradin when applying for additional grants.

The earliest starting date is January 2010.

Deadline for application is the 8th of October, and interviews will take place at the end of October. If not enough suitable applicants applied by this deadline, a second call will be released and interviews will then take place January 2010.

Please send your application including a CV (as PDF), PDFs of publications (published, in press or in preparation), PDF of your diploma or master thesis, a letter outlining your past research and particular motivation for this position (max. 2 pages), as well as contact details of 2 referees to carsten.schradin@zool.uzh.ch.

PD Dr. Carsten Schradin Research Associate, Zoological Institute, Department of Animal Behavior, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland. Tel: +41 - (0)44 635 5486 Fax: +41 - (0)44 635 5490 (Tel. secretary: +41 - (0)44 635 5271)

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

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

visit http://www.stripedmouse.com

Summary

The newly established field of endocrine ecology has increased our knowledge about how physiological mechanisms enable animals to be successful and survive in challenging environments. However, so far most studies are correlative, especially in mammals. If experiments are conducted, interactions between hormones are normally not taken into account, nor are the possible effects of hormones on other important physiological parameters such as metabolic rate. Since 2001 we have conducted field studies on the African striped mouse (Rhabdomys pumilio) in the Succulent Karoo desert. The striped mouse is now one of the best studied mammal species in the field of endocrine ecology, enabling the

— / —

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

Jobs

ArizonaStateU LabTech ConservationGenetics 37
BlackHillsStateU SystematicBotanist 37
ClarkU VertebrateEvolutionaryBiol 38
CollegeCharleston Chair in BioinformaticsComputBiol 38
CollegeCharleston Genomics 39
EAWAG Switzerland EvolutionaryTheory 39
FU Berlin Germany MicrobialEcologyEvolution ... 40
GeorgiaInstTech EvolutionaryBiol 41
HarvardU EvolutionOfPrimateBehavior 41
London TemporaryEditor Trends in Ecology Evolution 42
LouisianaStateU ResearchTech EvolutionaryGenomics 42
LouisianaStateU ResearchTech EvolutionaryGenomics 2 43
LyonU EvolutionaryBiology 43
LyonU EvolutionaryBiology 2 44
MasseyU Bioinformatics 44
MaxPlanckInst Seewisen TechAssist EvolutionaryGenetics 45
Muenster Germany EvolutionaryFunctionalGenomics 46
NorthernArizonaU MicrobialEvol 46
NSFProgramDirector BiologicalInformatics 47
PennsylvaniaStateU Lecturer EvolBioAnthropology 48
Smithsonian MolSystematics 48
TrinityU SanAntonio LabTech BehaviourEvol 48
UBristol Tech EvolutionaryBiology 49
UCaliforniaLosAngeles PlantEvolutionaryBiol 49
UMassachusetts Amherst EvoDevo 50
UMass Amherst ScaleInsectSystematics 51
UNorthCarolina Wilmington PlantSystematics 51
UNotreDame DiseaseDynamics 52
UOulu PopulationGenetics 52
UPennsylvania Evolution 52
UPittsburgh EvolutionBiol 53
URichmond DiseaseEvolution 53
USouthernCalifornia ComputationalBiol 54
UToronto Scarborough AnimalBiodiversity 55
UWesternSydney Biodiversity 55
WashingtonStateU EvoDevo 56
WashingtonStateU EvoDevo 2 56
WashingtonU EvolutionaryBiol 57
WillametteU MicrobialEvolution 57

ArizonaStateU LabTech ConservationGenetics

The Dowling lab in the School of Life Sciences at Arizona State University invites applications for a Research Specialist. The individual will assist with multiple aspects of research focused on conservation of native fishes of the southwestern United States. Applicants are expected to have a B.Sc. degree or higher in biology, with laboratory experience preferred. The principal duties of the individual pertain to the collection and organization of data and lab management. Applicants should be proficient with basic molecular procedures (DNA/RNA extraction, PCR, electrophoresis, molecular cloning, sequencing). Precision and reliability are essential. Duties will also include contributing to lab management such as oversight of undergraduate student workers, safety awareness, ordering, chemical inventories and the repair of minor equipment. Computer literacy is expected.

Salary will be commensurate with experience. Additional information on the position and instructions for application are provided at the following web address:

< https://www.asu.edu/go/employment/?auth=guest >

Go to job #23074. The closing date is 21 September 2009. If you have any additional questions email me at thomas.dowling@asu.edu.

Thomas E. Dowling Faculty Leader and Professor of Genomics, Evolution, and Bioinformatics School of Life Sciences PO Box 874501 Arizona State University Tempe AZ 85287-4501

Office: 480-965-1626 Fax: 480-965-6899 email: thomas.dowling@asu.edu

thomas.dowling@asu.edu

BlackHillsStateU SystematicBotanist

Position description: The Department of Biology at Black Hills State University is seeking a broadly trained systematic botanist for a tenure track position at the Assistant Professor level to begin in August 2010. Assigned responsibilities require a Ph.D. in Botany, Biology, or related field, excellent communication skills, and advanced knowledge of plant systematics. Postdoctoral experience is recommended but not required.

Black Hills State University houses the Center for the Conservation of Biological Research (http://www.bhsu.edu/Default.aspx?alias=-3Dwww.bhsu.edu/ccbr) and BHSU Herbarium (http://herbarium.bhsu.edu/). CCBR is a fully staffed and modern molecular genetic lab that exists to support genetic and genomic research at BHSU and in the greater Black Hills and Great Plains regions. The Herbarium houses ~45,000 specimens and features the world's largest collection of the distinctive vascular flora of the ecologically unique Black Hills of South Dakota and Wyoming.

The successful candidate will be expected to develop a research program that promotes undergraduate and graduate (Master's students) research training and utilizes the resources provided by CCBR and the BHSU Herbarium. BHSU is proud of its academic programs at all levels; thus, the successful candidate will also be expected to teach with excellence at the undergraduate and graduate levels. Applicants should provide CV, graduate transcripts, a letter detailing research interests and accomplishments, future research plans, teaching experience and philosophy, and future teaching goals, reprints of recent papers, and three letters of reference. Reprints and reference letters should be sent directly to: Dr. Garth Spellman, Systematic Botanist Search Committee, 1200 University Street, Unit 9073, Black Hills State University, Spearfish, SD 57799 or emailed to Garth.Spellman@bhsu.edu. Applications for this position must be made online at http://yourfuture.sdbor.edu and all documents, except reprints and reference letters, should be attached electronically. Review of applications will begin November 13th, 2009 and applications will be accepted until the position is filled.

Official description: Black Hills State University is a multi-purpose regional institution located in Spearfish, South Dakota, a community of approximately 12,000, in the heart of the scenic northern Black Hills. The University offers over 56 academic programs at the associate, bachelors, and masters degree levels. With a current enrollment exceeding 4,000 students, Black Hills State University is the largest university in the region. The university's location provides the ideal environment for combining outdoor recreation and collegiate educational opportunities in a dynamic setting.

The Biology Department offers a Bachelor's Degree in Science and a MS in Integrative Genomics. The Department supports twelve faculty with modern research and teaching facilities. A new science building is planned for 2011.

– Garth M. Spellman, Ph.D. Assistant Professor of Vertebrate Zoology MSIG Program Director 1200 University Street, Unit 9053 Biology Department Black Hills

State University Spearfish, SD 57799-9053

ph:605-642-6043 garthspellman@bhsu.edu http://-www.bhsu.edu/artssciences/asfaculty/gspellman/-Welcome.html Garth.Spellman@bhsu.edu Garth.Spellman@bhsu.edu

ClarkU VertebrateEvolutionaryBiol

The research area for this position is open and could include evolutionary biology. Review of applications will begin on October 30.

Thank you very much for your assistance.

Sincerely,

David Hibbett

– David S. Hibbett Professor Biology Department Clark University Worcester, MA 01610 USA tel: (508) 793-7332 fax: (508) 793-7174 lab web site: http://-www.clarku.edu/faculty/dhibbett/ —

Vertebrate Biologist, Clark University, Worcester, Masschusetts

Vertebrate Biology Faculty Position. The Department of Biology at Clark University, Worcester MA (www.clarku.edu/departments/biology/), invites applications for a tenure track appointment at the rank of Assistant Professor, to begin Fall, 2010.The successful candidate will be expected to develop an externally-funded research program in any area of vertebrate biology involving Ph.D. and undergraduate students. The candidate will teach a comparative and/or human anatomy course(s), as well as courses in their area of expertise. Electronic copies of a CV, research and teaching interests, three publications and three letters of reference should be received by the Search Committee prior to October 30, 2009 for full consideration (vert@clarku.edu). Please see (http://www.clarku.edu/biologysearch) for full position description. Inquiries should be directed to dhibbett@clarku.edu <mailto:sfoster@clarku.edu> . AA/EOE. Minorities and women are strongly encouraged to apply.

David Hibbett <DHibbett@clarku.edu>

CollegeCharleston Chair in BioinformaticsComputBiol

We are recruiting a person for an endowed chair in Bioinformatic/Computational Biology at the College of Charleston. The successful candidate would also have a joint appointment at the Medical University of South Carolina. Scientists interested in evolutionary biology are strongly encouraged to apply for this position. The ad that ran in Science a couple of weeks ago is included below:

Applications and nominations are invited for the *Endowed Chair in Bioinformatics/Computational Biology* at the College of Charleston. This is one of two appointments to be made within the Center for Economic Excellence in Marine Genomics, a partnership between the College and the Medical University of South Carolina. Rank is open for this position, but it is anticipated that the appointment will be made at the level of Associate Professor or Professor. The appointment will be in the Department of Biology at the College with a joint appointment at the Medical University. For information about the department, see _www.cofc.edu/biology < http://www.cofc.edu/-%7Ebiology >_.

The successful applicant will have a demonstrated track record as a collaborative scholar, a strong commitment to teaching and mentoring graduate and undergraduate students, and, ideally, will also have experience with the mechanisms for enhancing research value through partnerships with private industry. Experience as a research team leader/program director is highly desirable. The successful candidate will provide academic and program leadership in biological informatics conducted at the College of Charleston, Medical University of South Carolina, and their federal and state partners. To facilitate this role, the successful candidate will be housed at the Hollings Marine Laboratory (http://-www.hml.noaa.gov/), a multi-institutional research facility located near the College's Grice Marine Laboratory a short distance from downtown Charleston. An important focus would be the application of genomic, proteomic, and systems biology approaches to increasing understanding of the interactions of marine organisms with their environment and the relationships between the oceans and human health. The successful candidate will lead an existing team of programmers

and will drive the conceptual and theoretical interpretation of experimental results.

More information about this position can be obtained at the Department of Biology's website: _www.cofc.edu/biology/hiring.html < http://-www.cofc.edu/biology/hiring.html >_ or the chair of the search committee, Dr. Allan Strand (email provided below). Applicants should send a statement of research interests and accomplishments, a /Curriculum vitae/, and the names and contact information for at least three references in electronic format to: * *StrandA@cofc.edu Nominations should be sent directly to the search chair. Applications and nominations will be held in confidence to the extent possible. Review of applications is currently ongoing and will continue until the position is filled.

– Allan Strand, Biology College of Charleston Charleston, SC 29424

Allan Strand <stranda@cofc.edu>

CollegeCharleston Genomics

Assistant Professor, Genomics

Assistant Professor. The Department of Biology, College of Charleston, invites applications for a tenure-track position in Genomics at the Assistant Professor level to begin August, 2010. Candidates must possess a Ph.D. in the biological sciences or a closely related field, a strong commitment to teaching, and an active research program.

The particular area of research in genomics and the organism(s) are open, but the selected candidate will be expected to assist with the training of graduate students in the Marine Biology program < http://-www.cofc.edu/marine > . Teaching responsibilities may include undergraduate courses in genetics and molecular biology, and a graduate course that complements current genomics offerings in the Marine Biology master's program.

The College of Charleston is a public liberal arts and sciences institution of 12,000 students, with MS degrees in Marine Biology and Environmental Studies, and a commitment to excellence in teaching and research. Information about the Biology Department is available online < http://www.cofc.edu/biology > .

Applicants should submit a curriculum vitae, statement of teaching and research interests, copies of relevant publications, and three letters of reference to:

Chair, Marine Genomics Search Committee Department of Biology College of Charleston Charleston, SC 29424

or (preferred) electronically to genomic-ssearch@cofc.edu

Screening of applications will begin September 15 2009. The College of Charleston is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

"Murren, Courtney J" <MurrenC@cofc.edu>

EAWAG Switzerland EvolutionaryTheory

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

Our Fish Ecology & Evolution Department located in Kastanienbaum near Lucerne has a job opening for a

Research group leader (PhD, Tenure Track) in Theoretical Evolutionary Ecosystem Ecology

Suitable candidates should have an excellent research record in theoretical ecology, post-doctoral research experience and are ready to apply for external research funding. We are looking for candidates who are interested in how eco-evolutionary dynamics shape the emergence, functioning and future of ecosystems.

The ideal candidate will thrive on the unique opportunities for collaboration with the diverse research groups in the Eawag Center for Ecology, Evolution & Biogeochemistry (CEEB) and at Eawag in general. These diverse groups investigate physical and chemical ecosystems processes, biogeochemistry, food web ecology, community ecology, evolutionary ecology and ecological genetics.

The Group Leader is expected to:

* Establish an independent and collaborative research group dedicated to the investigation of eco-evolutionary dynamics at the ecosystem level * Collaborate with empirical research groups at CEEB * Supervise PhD and Masters students * Contribute to Eawag's mandate in teaching and expert consulting

The Department of Fish Ecology and Evolution houses 5 research groups in diverse areas of ecology, evolution and conservation. It is closely affiliated with the Institute of Ecology & Evolution, University of Bern (Prof. Ole Seehausen), and collaborates with other Eawag departments, other groups at the Instutute of Ecology & Evolution, groups at the ETH-Zurich, and internationally. As a top research institute, Eawag provides excellent support for high-quality research and a stimulating research environment in close proximity to the University of Bern and the ETH-Zurich. Eawag has world-class research infrastructure and provides excellent support for developing research in evolutionary biology, experimental ecology and ecosystem research.

Eawag's Center for Ecology, Evolution & Biogeochemistry aims to develop a strong nucleus of research groups integrating evolutionary biology with ecosystems science by linking evolutionary processes, studied at population and community level, to the structure and functioning of aquatic ecosystems.

The application deadline is 31.10.2009 with the earliest possible start date of 1.3.2010. The working language in the department and at CEEB is English. Please send a CV and application letter (including your research interests and the names and contact information for 3 references) as a single PDF file to: Eawag, Sandra Isenring, Human Resources, Ueberlandstrasse 133, CH-8600 Duebendorf, Switzerland or by email to recruiting@eawag.ch. Women are especially encouraged to apply. Visit www.eawag.ch for more information about Eawag and http://www.eawag.ch/-organisation/abteilungen/fishec/index_EN for more information about our department.

For questions about the position email Prof. Ole Seehausen (ole.seehausen@eawag.ch).

Ole.Seehausen@eawag.ch Ole.Seehausen@eawag.ch

FU Berlin Germany MicrobialEcologyEvolution

We are searching for two scientists (Wissenschaftlicher Mitarbeiter Vgr. IIa BAT i.d.F.d. Anw.-TV FUB; roughly equivalent to 'research assistant prof' in the U.S.) to join our team at FU Berlin. Please quote the respective reference number when applying. Preferred start date is October 15, 2009.

Position 1 (Ecologist/ Evolutionary ecologist), Reference code 21223700/20/09

Postdoctoral staff scientist, 42 months (3.5 years; full salary)

Research: We seek an ecologist who uses soil fungi, including arbuscular mycorrhizal fungi or pathogenic fungi, to test general ecological and/ or evolutionary principles and theories.

Excellent knowledge of English and quantitative/ statistics skills are desired, and the willingness to work (and publish) as part of a team. The applicant should also be interested in helping to write grants to external funding agencies, and ideally already has experience in this regard.

Teaching: The incumbent is required to teach in the area represented by the lab (ecology); the teaching load is 4 credits/ week during the semester. Therefore there should be an interest in teaching, mainly for the BSc degree in Biology, but also for the MSc in Ecology, Evolution and Biodiversity.

Position 2 (Molecular Microbial Ecologist), Reference code 21223700/19/09

Postdoctoral staff scientist, 4 years (full salary).

Research: Molecular microbial ecology. Candidate should have excellent quantitative/ statistical skills in the analysis of molecular microbial community data. It is expected that the candidate will contribute to research on arbuscular mycorrhizal fungi in the lab. The incumbent should have first-hand knowledge of soil molecular microbial ecology.

Excellent knowledge of English and quantitative/ statistics skills are desired, and the willingness to work (and publish) as part of a team. The applicant should also be interested in helping to write grants to external funding agencies, and ideally already has experience in this regard.

Teaching: The incumbent is required to teach in the area represented by the lab (ecology); the teaching load is 4 credits/ week during the semester. Therefore there should be an interest in teaching, mainly for the BSc degree in Biology, but also for the MSc in Ecology, Evolution and Biodiversity.

In your application to the above positions you may want to include the following in addition to your cv and publication list:

- state how you see yourself fit into the lab

- give details on your research interests and plans

- give the names and email addresses of three references

Send applications by email as a single pdf

(matthias.rillig@fu- berlin.de), or by mail to:

Prof. Dr. Matthias C. Rillig Freie Universität Berlin Plant Ecology Altensteinstr. 6 D- 14195 BERLIN, Germany

Inquiries are also welcome.

jeff.powell@fu-berlin.de jeff.powell@fu-berlin.de

GeorgiaInstTech EvolutionaryBiol

Dear Evoldir,

This ad will be posted soon in Science. Relevant evolutionary biologists are encouraged to apply. I'm happy to answer questions about the positions or living/working in Atlanta.

The Georgia Institute of Technology is one of the top ranked educational/research institutions in the country and ranked as one of the best places to work. As part of significant growth in the biological sciences, the School of Biology is seeking applications for a tenure-track position in experimental Molecular Cell Biology, with particular interest in the areas of epigenetics, macromolecular assemblies, cell-cell and cell-matrix interactions, stem cell or developmental biology. We also invite applications for two tenure-track positions for experimentalists working with Microbial Systems (prokaryotic or eukaryotic), especially in the areas of molecular biology/synthetic biology/genetics or ecology/evolution/environmental microbiology. Candidates will be favored whose research integrates well with the department's existing strengths in molecular and cell biology, ecology and evolutionary biology, and computational biology (www.biology.gatech.edu). Georgia Tech is an interdisciplinary environment where faculty are strongly encouraged to interact with others from sciences, engineering and computing.

It is anticipated that these positions will be filled at the junior level but outstanding senior candidates with exceptional records are encouraged to apply. Candidates should forward a letter of application, full curriculum vitae, statement of research interests and plans, and contact information for four references to cell@biology.gatech.edu or microsearch@biology.gatech.edu. Review of applications begins October 1, 2009.

jts

J.T. Streelman Associate Professor School of Biology Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332-0230 404-385-4435 (office) 404-385-4436 (lab) 404-385-4440 (fax) E-mail: todd.streelman@biology.gatech.edu http://www.biology.gatech.edu/faculty/todd-streelman/ todd.streelman@biology.gatech.edu todd.streelman@biology.gatech.edu

HarvardU EvolutionOfPrimateBehavior

TENURE TRACK JOB IN PRIMATE BEHAVIOR HARVARD UNIVERSITY

The Department of Human Evolutionary Biology at Harvard University is seeking to make a full-time tenure-track appointment at the assistant or untenured associate professor level in the field of non-human primate behavior, and seeks candidates who will complement the current strengths of the program. We are particularly interested in candidates whose interests in behavior extend to cognitive evolution, ecology, genetics, or physiology, and whose primate behavioral studies are explicitly related to human evolution. A strong doctoral record is required and the Department seeks candidates with exceptional promise as scholars and teachers to offer courses at the undergraduate and graduate levels. The Department administers a large and successful undergraduate concentration in Human Evolutionary Biology, hence excellence in undergraduate teaching is a priority. Our Doctoral program stresses integration of laboratory and field research and the cooperative training and mentoring of Ph.D. candidates. Harvard University is an Equal Opportunity/Affirmative Action employer, and applications from women and minorities are particularly encouraged. The appointment is expected to begin on July 1, 2010. Interested candidates should send a CV, example publications, teaching evaluations if available, and the names and addresses of three potential references, by November 13, 2009 to: Prof. Richard Wrangham, Search Committee Chair, Department of Human Evolutionary Biology, Harvard University, 11 Divinity Avenue, Cambridge, MA 02138 USA, or by email to mlynch@fas.harvard.edu.

Charles Nunn <cnunn@oeb.harvard.edu>

London TemporaryEditor Trends in Ecology Evolution

Editor for Trends in Ecology & Evolution (12 month maternity cover)

We are seeking to appoint an editor to cover maternity leave on Trends in Ecology & Evolution, which is the leading international review journal dealing with all aspects of ecology and evolution. The job involves acquiring, managing and developing the very best editorial content, making use of a network of contacts in academia, as well as exploiting information gathered at international conferences, to ensure the title maintains its market-leading position. The role will be based in the Camden office in London and is for a period of 12 months with a likely starting date of 18th December 2009.

Our ideal candidate will be versatile, creative and enthusiastic, capable of maintaining the fast moving and highly cited status of the journal. Good interpersonal skills are essential because the role involves working as an integral part of a journal team, networking in the wider scientific community as well as collaborations with other parts of the business.

Furthermore, you will have excellent time-management and organisational skills to create and maintain a smooth-running and efficient continuous publication process. You will need a PhD in a relevant discipline, and ideally some post-doctoral experience. Previous publishing experience is not necessary - we will make sure you get the training and development you need - and we offer excellent financial and career rewards.

This is an ideal opportunity to stay close to the cutting edge of science research whilst developing a new career in a dynamic publishing environment.

Please apply online at: https://reedelsevier.taleo.net/careersection/11/jobdetail.ftl?lang=en_gb&job=SCI0002T

Elsevier Limited. Registered Office: The Boulevard, Langford Lane, Kidlington, Oxford, OX5 1GB, United Kingdom, Registration No. 1982084 (England and Wales).

"Lythgoe, Katrina (ELS-LON)" <K.Lythgoe@elsevier.com>

LouisianaStateU ResearchTech EvolutionaryGenomics

Job:

LouisianaStateU.ResearchTech.EvolutionaryGenomics

Research Associate 2 Department of Biological Sciences

One or more Research Associate 2 positions are in the lab of Andrew Whitehead at Louisiana State University. The ideal candidate will be a recent graduate (B.S. or M.S.) who is planning on continuing with graduate school, but whom would like to take a year off before they start a Ph.D. program. The Whitehead lab specializes in Ecological and Evolutionary Genomics research, with more specific focus on discovering the genomic basis of acclimation and adaptation differences among populations and species of killifish. The technician will have excellent opportunities to learn cutting-edge genomics techniques, assist with data analysis, and will be included on publications. Required Qualifications: Bachelor's degree in a Biological Science or related field and 2 years related laboratory experience; experience with PCR and DNA sequencing, as well other molecular biology techniques. Responsibilities: extract and amplify RNA/DNA; perform microarray hybridizations and scanning to assay transcriptomic responses to ecological stress, and to assay evolved differences among populations and species. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is September 14, 2009 or until a candidate is selected.

Please send a letter indicating your interest and background, and attach your CV, to Dr. Andrew Whitehead at andreww@lsu.edu

LSU SYSTEM IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Andrew Whitehead Assistant Professor Department of Biological Sciences Louisiana State University

mail 202 Life Sciences Building Louisiana State University Baton Rouge, LA 70803 USA

e-mail andreww@lsu.edu

web http://www.biology.lsu.edu/webfac/awhitehead/frontpage%20template.htm office A114 Life Sciences Annex (225) 578-8210

Thanks!

Andrew

Andrew Whitehead, Asst. Professor

Dept. of Biological Sciences, LSU

office: 225-578-8210, lab: 225-578-2688, fax: 225-578-2597

NEW lab webpage: http://www.biology.lsu.edu/-webfac/awhitehead/frontpage%20template.htm

Andrew Whitehead <andreww@lsu.edu>

Assistant Professor Department of Biological Sciences Louisiana State University

mail 202 Life Sciences Building Louisiana State University Baton Rouge, LA 70803 USA

e-mail andreww@lsu.edu

web http://www.biology.lsu.edu/webfac/awhitehead/-frontpage%20template.htm office A114 Life Sciences Annex (225) 578-8210

Andrew Whitehead <andreww@lsu.edu>

LouisianaStateU ResearchTech EvolutionaryGenomics 2

LouisianaStateU.ResearchTech.EvolutionaryGenomics

Research Associate 2 Department of Biological Sciences

One or more Research Associate 2 positions are available in the lab of Andrew Whitehead at Louisiana State University. The Whitehead lab specializes in Ecological and Evolutionary Genomics research, with more specific focus on discovering the genomic basis of acclimation and adaptation differences among populations and species of killifish. The technician/s will have excellent opportunities to learn cutting-edge genomics techniques, assist with data analysis, and will be included on publications. Required Qualifications: Bachelor's degree in a Biological Science or related field and two years related laboratory experience; experience with PCR and DNA sequencing, as well as other molecular biology techniques. Responsibilities: extract and amplify RNA/DNA; perform microarray hybridizations and scanning to assay transcriptomic responses to ecological stress, and to assay evolved differences among populations and species. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is September 18, 2009 or until a candidate is selected.

Apply online at: www.lsusystemcareers.lsu.edu. Position #032065 and #032859.

LSU SYSTEM IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Quick link to ad URL: https://-lsusystemcareers.lsu.edu/applicants/-Central?quickFind=51158 Please direct questions to Andrew Whitehead: andreww@lsu.edu

http://www.biology.lsu.edu/webfac/awhitehead/-frontpage%20template.htm Andrew Whitehead

LyonU EvolutionaryBiology

Dear all,

I am contacting you about our department, the Institut de Genomique Fonctionnelle de Lyon. This department (in French terms a âmixed unitâ (UMR) with CNRS, INRA, ENS de Lyon and Lyon University as trustees) presently comprises 10 research groups (see the list below) working in the fields of integrative biology, developmental biology and evolution.

As we will be moving to a new building in mid 2011, we will have the space to accommodate 9 new research groups working in these fields. Our aim is to build a powerful interdisciplinary laboratory addressing whole-organism level research, with a special focus on animal-based research.

I would like to know if you would be interested to apply to this call. We would really be very pleased to consider your application. Please note that there will be a call in 2009 as well as another one in 2010 and a last one in 2011.

Please do not hesitate to contact me if you have any questions. I hope to hear from you soon,

Best wishes,

Vincent LAUDET

Current groups of the IGFL

Vincent LAUDET: Molecular zoology Catherine HÃNNI: Paleogenetics and molecular evolution Jean-Nicolas VOLFF : Evolutionary genomics of vertebrates Jacques SAMARUT: Oncogenesis and development Frederic FLAMANT: Neurodevelopment Philippe DURAND : Functional genomics of reproduction Jean-Marc VANACKER : Orphan nuclear receptors physiopathology Pierre JURDIC: Cell biology and bone

physiopathology FranÃBLEICHER: Odontoblast physiopathology Laurent VIRIOT : Evo-Devo of dentition in vertebrates

–

Pr. Vincent Laudet Directeur Institut de Genomique Fonctionnelle de Lyon UMR 5242 du CNRS

Equipe de Zoologie Moleculaire Universite de Lyon - INRA IFR 128 BioSciences Lyon-Gerland Ecole Normale Superieure de Lyon 46, allee d'Italie 69364 Lyon Cedex 07 France Tel: 33 (0)4 72 72 81 90 Mobile: 33 (0)6 16 41 73 34 Fax: 33 (0)4 72 72 89 92 E-mail: Vincent.Laudet@ens-lyon.fr

Discover our new master ! http://-masterbiosciences.ens-lyon.fr Frederic Brunet <Frederic.Brunet@ens-lyon.fr>

LyonU EvolutionaryBiology 2

I put as a plain text the document that was supposed to be attached in the message sent yesterday.

JUNIOR/SENIOR GROUP LEADER POSITIONS

AT IGFL IN LYON, FRANCE

The Institut de Génomique Fonctionnelle de Lyon (IGFL) is a research institute run by the French Centre National de la Recherche Scientifique (CNRS), the Ecole Normale Supérieure de Lyon (ENS Lyon), the Institut National de la Recherche Agronomique (INRA) and the Université Claude Bernard Lyon 1 (UCB). The IGFL will be moving during mid 2011 to a new 3200 m2 building, in a location adjacent to the actual ENS Lyon scientific campus, which comprises more than 1000 scientists, carrying out research in all areas of biology.

The IGFL currently consists of 10 research groups and will eventually bring together 18 research groups, representing a total of approx. 200 persons who will conduct fundamental research in integrative biology, developmental biology, evolutionary sciences and bioinformatics/modelisation at the genomic scale. The research groups strongly interact with medical and agronomical research via regional, national and international networks (for more information please visit us online at http://igfl.ens-lyon.fr/).

The IGFL, in view of its new facilities, is recruiting outstanding scientists for junior/senior group leader positions. The IGFL welcomes projects addressing whole-organism level research, with a special focus on animal-based research.

Groups will benefit from easy access to state-of-the-art core services, including cell and small animal imaging, transgenic animal facilities (mouse, fish, drosophila), paleogenomics, bioinformatics, mass spectrometry, proteomics, transcriptomics, FACS sorting, histology and electron microscopy.

Applications should include curriculum vitae, a short description of achievements and records of self-financing, a proposed research program of approx. 10 pages and contact details for 3 professional references.

Applications should be sent to : direction.igfl@ens-lyon.fr

The closing dead line is October 20th 2009. Short-listed candidates will be called for interviews in December 2009.

Frederic Brunet <Frederic.Brunet@ens-lyon.fr>

MasseyU Bioinformatics

The Institute of Molecular BioSciences at Massey University, New Zealand is offering a Summer Scholarship available from November 2009 to February 2010. We are looking for a motivated student, either an upper undergraduate (B.Sc., B.Sc. (Hons) or equivalent) or recent graduate (M.Sc. or equivalent), looking to improve their skills in bioinformatics and next generation sequencing.

The Scholarship will be held over the Southern Hemisphere's summer. As such, this is a great opportunity to extend your research training, while taking advantage of the many travel opportunities that New Zealand has to offer. Palmerston North is close to the North Island's central mountains, with many options for hiking, adventure sports and experiencing New Zealand's unique culture.

The project on offer is:

Interrogating the Transcriptome of a Plant-Fungal Symbiote using Next- Generation Sequencing With Dr Murray Cox, Massey University, New Zealand

This study will determine the biological and evolutionary factors underlying the symbiotic relationship between a fungal endophyte (Epichloë festucae fl1) and its ryegrass host (Lolium perenne). Fungal endophytes

produce a range of secondary metabolites that help protect their host plants from insect attack, and this particular relationship is especially important for the management of pasture quality. However, the molecular basis of plant-fungal symbiosis is not well understood. Dr Murray Cox and Professor Barry Scott are currently employing a second-generation sequencing technology (Solexa) to study the molecular causes of this interaction. By sampling E. festucae grown in planta, we will obtain the transcriptomes (i.e., mRNA complements) of both plant and fungus. By comparing differential gene expression in wildtype E. festucae relative to a parasitic mutant, we aim to identify which genes have evolved to control and maintain this symbiosis between plant and fungus.

Note: This project will provide computational biology training for a young scientist. There is no laboratory component, and the scholarship recipient will need advanced computational skills, as s/he will be handling substantial quantities of second-generation sequencing data, as well as analyzing the entire gene complements of two non-model organisms. The recipient will need some knowledge of UNIX and programming, or willingness and an aptitude to obtain these skills.

Scholarships are for a nominal period of 12 weeks, from 16th November 2009 to 12th February 2010 (dates may be negotiable), have a total value of NZD$6,000, and will be awarded on the basis of academic merit. New Zealand citizens and permanent residents are strongly encouraged to apply, but all applications will be considered. Please send a cover letter, CV, and the names of two references to Ann Truter (a.truter@massey.ac.nz) by 25 September 2009. Further details can be found at:

http://tiny.cc/sumsch —- Dr Murray Cox Massey University E m.p.cox@massey.ac.nz T +64-6-356 9099 ext. 2570 W http://massey.genomicus.com mpcox@u.arizona.edu mpcox@u.arizona.edu

MaxPlanckInst Seewisen TechAssist EvolutionaryGenetics

The Max Planck Institute for Ornithology in Seewiesen (near Munich, Germany) is an international research institute, focusing primarily on experimental and theoretical research in the fields of evolutionary ecology, genetics and neurobiology.

For our department Behavioural Ecology & Evolutionary Genetics(Prof. Dr. Bart Kempenaers) we are looking for a full-time position as a

Technical Assistant (f/m)

Job description: You will assist scientific research on the Evolutionary Ecology of Animal Personality. You will primarily conduct field and laboratory work as well as be involved in administrative and organizational tasks.

Job requirements: Preferably you have a Bachelor or MSc-degree in biological or medical sciences, or you possess the required skills by previous experience. You are interested in scientific research and capable of both working independently and in a team, and have a driver license. Our research is internationally oriented, and you therefore need to speak fluent English. It is essential that you have proven experience with catching and ringing small passerine birds, and conducting behavioral observations in the wild. Ideally you are familiar with database management.

We offer a stimulating and diverse job with a long-term perspective at an internationally-oriented modern research institute.

Payment is according to the German public pay scale (TVöD) and depends on the applicants qualifications up to remuneration grouping 8 TVöD. In addition, general public service benefits are granted. The position is offered initially for 2 years with the option to become permanent.

Working time can be agreed flexibly given that the Max Planck Society is committed to improve the balance of family and work.

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

If you are attracted by this challenge at our institute, please send your application with CV before 09 October 2009 to:

Max-Planck-Institute for Ornithology Tel.: 08157-932-232 Carmen Dobus email: cdobus@orn.mpg.de Eberhard-Gwinner-Straße Internet: www.orn.mpg.de D-82319 Seewiesen (Starnberg)

Sascha Boerckel Personalleitung Max-Planck-Institut für Ornithologie Eberhard-Gwinner-Straße Haus 4 82319 Seewiesen Tel.: 08157932-411 Fax.: 08157932-209 E-Mail: boerckel@vw.orn.mpg.de

Sascha Boerckel <boerckel@vw.orn.mpg.de>

Muenster Germany EvolutionaryFunctionalGenomics

Junior Group Leader (W1) in

Evolutionary Functional Genomics

The Faculty of Biology at the University of Münster (Germany) invites applications for a Junior Professorship (W1 salary scale; equivalent to a non-tenure track assistant professorship or lecturer) in Evolutionary Functional Genomics. The position will start 1st January 2010 or later. Appropriate laboratory space and access to a technology platform for state-of-the-art genomics techniques (Integrated Functional Genomics (IFG)) is provided.

The successful candidate will lead an independent junior group with a strong research program in a cross-disciplinary field combining evolution and physiology. He/she will study adaptations to biotic and/ or abiotic stressors on micro- or macro-evolutionary scales, making use of modern functional genomics techniques. Molecular techniques may include large-scale study of natural genetic variation (such as re-sequencing, SNP analysis etc.) and dynamic aspects of gene activity (transcriptomics, DNA methylation profiling etc.) to address the genetic basis and physiological consequences of evolutionary change. The position includes teaching (in English or German) at the undergraduate (Bachelor) and graduate (Master) level in the candidate's field of expertise.

The position is initially for three years with a possible renewal for another three years. The position comes with substantial funding (positions for a postdoc and a technician, start-up and base funding). The successful candidate is expected to participate in ongoing collaborative research efforts of the Faculty of Biology and encouraged to acquire additional extramural funding. Applicants must have a PhD or doctorate in a biological or related discipline. Postdoctoral experience and a strong publication record are expected.

The University of Münster seeks to increase the proportion of female staff members in the faculty and therefore encourages interested female candidates to apply. Handicapped candidates with equivalent qualifications will be given preference.

For further information, please contact Prof. Joachim Kurtz (Email: joachim.kurtz@uni-muenster.de; phone: +49 251 83 24 661). To apply for this position, please send a Curriculum Vitae in English, including a publication list, a summary of scientific achievements, teaching experience, acquired funding and a description of research plans, to arrive by 31st October 2009. This should be sent as both a pdf and a hard copy to:

Dekan des Fachbereichs Biologie

Westfälische Wilhelms-Universität

Schlossplatz 4, D-48149 Münster, Germany

Email: dekanat.bio@uni-muenster.de

Prof. Dr. Joachim Kurtz

University of Muenster Institute for Evolution and Biodiversity, Animal Evolutionary Ecology Group Hueffer-str. 1, DE-48149 Muenster, Germany Phone: + 49 251 83 24661 Fax: + 49 251 83 24668 joachim.kurtz@uni-muenster.de http://www.uni-muenster.de/Evolution/- joachim.kurtz@uni-muenster.de joachim.kurtz@uni-muenster.de

NorthernArizonaU MicrobialEvol

Job Title: Research Specialist - Northern Arizona University Job ID#: 558109 Full Time

Special Information This position is grant funded and subject to the availability of funds. Not subject to layoff or recall status.

Job Description The Center for Microbial Genetics and Genomics at Northern Arizona University is seeking a mid-level Research Specialist to assist with basic and applied research in microbial pathogen molecular genetics. Target qualifications include laboratory animal care, basic microbiology, and molecular genetics methods (fluorescent DNA genotyping, sequencing, real-time PCR analysis, and fragment cloning). Ability to interact in a research-driven team environment is essential. This position will require working in a BSL-3 environment with bacterial pathogens such as Yersinia pestis and Francisella tularensis. Candidates should have at least a Bachelor's degree in an appropriate field, with any of the above listed experiences.

Primary duties. * Perform daily care and maintenance of laboratory mice and rats. * Conduct pathogen challenge experiments under BSL3 conditions. * Assist with the development of fluorescent genotyping assays (MLVA, TaqMan) to genetically characterize a variety of microbial pathogens. * Supervise the efforts of 1-4

junior level laboratory staff and students. * Compile and write reports, SOPs, publications and grants.

Minimum Qualifications * Bachelor's degree in Biology or related field AND two years of related research experience: OR * An equivalent combination of experience, training, and/or education AND * Willingness and ability to pass a Department of Justice Select Agent Program Security Risk Assessment.

Preferred Qualifications * Experience working with rodents in a BSL-3 laboratory environment * Experience with molecular genetic techniques such as PCR, primer design, fluorescent DNA analysis, sequencing, cDNA library construction and cloning, and DNA extraction and purification. * Experience with statistical analysis of genotype data * Certified as an Assistant Laboratory Animal Technician (ALAT) with the American Association of Laboratory Animal Science (AALAS). * Strong writing, editing, and oral communication skills and the ability to communicate effectively with individuals from diverse backgrounds. * Supervisory experience

Knowledge, Skills and Abilities. * Knowledge of policies and regulation related to the care and use of laboratory animals. * Ability to safely handle rodents in a research setting. * Candidate must be well-organized, with an eye for detail * Ability to work within groups and effectively communicate, both verbally and in writing. * Ability to work with people from culturally diverse backgrounds. * Willingness and ability to participate in occupational health monitoring required by Northern Arizona University.

General Information * This position has been identified as a safety/security sensitive position. Therefore, per AZ Revised Statute, Northern Arizona University requires satisfactory results for the following: a criminal background investigation, employment history investigation, degree verification (in some cases) and fingerprinting. * Additionally, as an employer in the state of Arizona, NAU is required to participate in the federal E-Verify program that assists employers with verifying new employees' right to work in the United States. * This position will remain open until filled.

Annual Salary $32,677-36,000 * Northern Arizona University will implement a furlough plan, requiring employees to take time off without pay during fiscal year 2010 (July 1, 2009 - June 30, 2010). The required amount will be prorated for new employees based on the date of hire and the following criteria: * Employees whose salaries are less than $40,000 per year will take 1 furlough day (8 hours for full time employees and prorated for part time employees) * Employees whose salaries are $40,000 or more per year will take 3 days (24 hours for full-time employees and prorated for part time employees) * Employees who are funded 90% or more by sponsored project funds (not including TRIF) are not required to take furlough time.

More information about NAU's furlough program can be found at http://hr.nau.edu/m/content/view/1070/-647/ . FLSA Status Exempt

Benefits This is a Classified Staff (CLS) position. NAU offers an excellent benefit package including generous health, dental and vision insurance; participation in the Arizona State Retirement System; paid vacation and 10 holidays per year; and tuition reduction for employees and qualified family members. More information on benefits at NAU is available at www.nau.edu/hr. Classified Staff employees are in a probationary status for their first six months at NAU.

Application Deadline Open until further notice.

How to Apply

— / —

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

NSFProgramDirector BiologicalInformatics

Dear SSE Member,

NSF Announcement for Permanent Program Director Position in Advances in Biological Informatics

The National Science Foundation (NSF) is looking to fill a permanent position of Program Director in the Advances in Biological Informatics (ABI) program, Division of Biological Infrastructure (DBI). ABI seeks to encourage new approaches to the analysis and dissemination of biological knowledge for the benefit of both the scientific community and the broader public. The ABI program is especially interested in the development of informatics tools and resources that have the potential to advance, or transform, research in biology supported by the Directorate for Biological Sciences at the National Science Foundation. The Program Director for the ABI Program is responsible for the planning and administration of the program within the framework of legislation, agency policies, missions, objectives, and resources. This is an exciting opportunity for experienced individuals to have a

profound impact on furthering the biological sciences in the U.S. Details of the position and its responsibi lities can be found at http://jobview.usajobs.gov/-GetJob.aspx?OPMControl=1663370 . Details about the ABI program can be found at http:/-/www.nsf.gov/funding/pgm_summ.jsp?pims_id=-5444&org=DBI&from=home Deadline for applications is 15 October 2009.

Please direct questions about the position to Peter Arzberger, Division Director, DBI, parzberg@nsf.gov or Peter McCartney, Program Director, ABI, pmc-cartn@nsf.gov

Judy Stone (Secretary of SSE) and SSE Executive Council - jstone@colby.edu

Judy Stone via Bill Dahl <wdahl@botany.org>

PennsylvaniaStateU Lecturer EvolBioAnthropology

Lecturer in Biological Anthropology

The Department of Anthropology at The Pennsylvania State University invites applications for a one-year, full-time, fixed term appointment as lecturer in biological anthropology, beginning August 16, 2010. Ph.D. required; teaching experience, and documentation of high course evaluations necessary; experience in the development of online courses desirable. The successful candidate will be part of a dynamic department and will add to our mission by teaching three courses per semester, one of which will be an introductory survey course in biological anthropology. Other courses to be taught will be an introductory course in anthropological genetics, and two high-level undergraduate courses in an area of specialization or interest. Development of an online version of the introductory survey course will count as teaching one course in one semester. Renewal of contract for subsequent years may be considered. Applicants should send a cover letter, curriculum vitae, evidence of exceptional teaching experience and skills, and names and contact details of three references by January 15, 2010 to Faye Maring at fmaring@la.psu.edu . Electronic submission of application is strongly preferred. If you are unable to submit your application electronically, please mail to Faye Maring, Department of Anthropology, The Pennsylvania State University, 414 Carpenter Building, University Park, PA 16802. Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

fmaring@la.psu.edu fmaring@la.psu.edu

Smithsonian MolSystematics

MOLECULAR SYSTEMATICS TECHNICIAN

National Museum of Natural History and Laboratory of Analytical Biology, Smithsonian Institution

The Ant Lab at the Smithsonian Institution (http://-entomology.si.edu/SIAntLab.html) is looking for a temporary contractor (3-4 months with possibility of extension) to assist in molecular systematic research on fungus-growing ants in the genus Trachymyrmex. The work will be carried out primarily at the Smithsonians Laboratory of Analytical Biology (LAB) facility in Suitland, MD. Skills required include experience with molecular laboratory techniques (including DNA extraction, PCR, and DNA sequencing) and an ability to work independently. This position is available immediately. To apply, please send a copy of your CV and contact information for at least two references to Ted Schultz (schultzt@si.edu) or Scott Solomon (solomons@si.edu).

Ted R. Schultz, Ph.D. and Scott E. Solomon, Ph.D. Department of Entomology Smithsonian Institution POB 37012 NHB, CE516, MRC 188 Washington, DC 20013-7012

“Solomon, Scott” <SolomonS@si.edu>

TrinityU SanAntonio LabTech BehaviourEvol

A full-time laboratory technician position is available in the labs of Dr. Mark Brodl and Dr. Michele Johnson at Trinity University in San Antonio, Texas. This technician will coordinate and implement research activities in both behavioral evolution (Johnson lab) and plant cell and molecular biology (Brodl lab). The ideal candidate will have a B.S. or B.A. in biology, biochemistry, or a related field, and a minimum of one year of prior experience working in a research laboratory.

Primary duties include assisting faculty and students

in experimentation and data collection in the lab and field, ordering laboratory supplies, maintaining stock solutions, general care of laboratory animals, and maintaining laboratory records. Facility with basic laboratory equipment, ability to use basic tools in molecular biology (nucleic acid manipulation, etc.), ability to adhere to safety requirements, excellent organizational and interpersonal skills, and the ability to handle multiple priorities are required.

Salary for this position is $11.12/hour.

To apply, please send the following materials to Dr. Michele Johnson at michele.johnson@trinity.edu<mailto:michele.johnson@trinity.edu> CV or resume, including contact information for 3 references, and a cover letter explaining why you are interested in the position. Also, please submit the following form to Trinity University Human Resources: http://iraa.trinity.edu/iraa/Documents/hr_docs/ONLINE/Application%20for%20Employment.NEW2Onlinepdf.pdf Review of applications will begin immediately. Women and minority candidates are strongly encouraged to apply. Trinity University is an Equal Opportunity Employer.

Michele A. Johnson, Ph.D. Assistant Professor Trinity University Department of Biology One Trinity Place San Antonio, TX 78212

office phone: 210-999-8918 email: michele.johnson@trinity.edu webpage: www.trinity.edu/mjohnso9/< http://www.trinity.edu/mjohnso9/ >

Michele.Johnson@Trinity.edu
Michele.Johnson@Trinity.edu

UBristol Tech EvolutionaryBiology

NERC-funded Technician position available in Biological Sciences, University of Bristol

Limits to evolution along ecological gradients in rainforest Drosophila

Applications are invited for a Research Technician to work on a NERC-funded project with Dr Jon Bridle. This research will combine ecological and quantitative genetic studies of natural populations to test population genetic models for limits to adaptation at range margins. It will focus on estimating adaptive divergence, gene flow, population density, and fitness along several ecological gradients between high and low altitude rainforest in northern Queensland. Addressing these issues is crucial for assessing dangerous levels of environmental change.

The research involves collaboration with Profs Mark Blows (Queensland), Ary Hoffmann (Melbourne), and Nick Barton (Vienna), and will require spending extended periods in the field, and approximately six months per year in Australia.

Successful applicants will need a strong commitment to research, a background in ecology and evolutionary study, and the ability and desire to work under difficult field conditions, as well as in conducting detailed laboratory experiments, sometimes during unsociable hours. Experience in working with insects and in molecular genetics, particularly SNP or microsatellite genotyping is essential.

A full driving license is essential. The position will be for 36 months, with a start time during January 2010, and is open to applicants of all nationalities.

Informal enquires are welcome (jon.bridle@bristol.ac.uk).

The deadline for applications is 30th October 2010. Please see https://www.bris.ac.uk/boris/jobs/ads?ID=83427 for full details of the procedure.

Dr Jon Bridle School of Biological Sciences University of Bristol Bristol BS8 1UD

Tel. 0117 928 7482 Fax. 0117 331 7985 jon.bridle@bristol.ac.uk

Jon Bridle <jon.bridle@bristol.ac.uk>

UCaliforniaLosAngeles PlantEvolutionaryBiol

RESEARCHER SCIENTIST / SENIOR POST-DOC POSITION

in Plant Evolutionary Biology/Molecular Ecology

Department of Ecology and Evolutionary Biology, UCLA

A RESEARCH SCIENTIST position is available in the lab of Victoria Sork for a PhD scientist who will oversee and participate in on- going projects, including: phylogeography and environmental genomics of oaks; coevolution of fungal-algae in the lichen, Rama-

lina menziesii; and molecular ecology of pollen and seed dispersal. Major duties include molecular laboratory work, data management and statistical analysis, and manuscript and grant preparation. Other duties include: overseeing day-to-day management of laboratory including purchasing supplies and equipment; insuring proper operation and maintenance of laboratory equipment; working with undergraduate research assistants; and occasional training of grad students. In addition to weekly lab meetings and discussions, UCLA offers an exciting environment for evolutionary biologists, ecologists, and computational biologists through its myriad seminars, colloquia, and informal activities across campus. Requirements for the position include: a PhD in biology; experience with DNA sequencing and microsatellite markers; statistical skills in population genetics and genomics; and good project management skills. Please apply by September 30, 2009, by sending your c.v., cover letter, and a statement of research interests and experience to Sork Research Position, c/o Ms. Bobbi Fenske, LSSA Personnel Manager, 621 Charles E. Young Drive, Box 951606, Los Angeles, CA 90095-1606. Screening of applications will begin September 8, 2009, and will continue until filled. The position could start as early as October 2009, but the start date is flexible. The initial appointment is for one year, with renewal based on performance. Salary is commensurate with years of post-doctoral experience and education and in accordance with University policy, starting around $55,000-$60,000. For more information, please contact Victoria Sork (vlsork@ucla.edu). UCLA is an Equal Opportunity/Affirmative Action Employer.

Victoria Sork <vlsork@ucla.edu>

UMassachusetts Amherst EvoDevo

Assistant Professor Position in Evolutionary Developmental Biology (Evo/Devo)

The Department of Biology at the University of Massachusetts Amherst (< http://www.bio.umass.edu/biology >www.bio.umass.edu/biology) invites applications for a tenure-track assistant professorship in the area of Evolutionary/Developmental Biology (Evo/Devo). The UMass Biology Department provides an interactive and broad research environment, with faculty research spanning levels of biological organization. Especially strong research clusters focus on the areas of Neural Developmental, Cell Biology, Plant Biology, Functional Morphology, and Evolution. Successful candidates will have a Ph.D., postdoctoral experience, and the potential to develop and maintain an extramurally funded research program. New faculty members will have the opportunity to participate in strong graduate training programs in Molecular and Cellular Biology (< http://www.bio.umass.edu/mcb >www.bio.umass.edu/mcb), Organismal and Evolutionary Biology (< http://www.bio.umass.edu/oeb >www.bio.umass.edu/oeb), Plant Biology (< http://www.bio.umass.edu/plantbio >www.bio.umass.edu/plantbio), and Neuroscience and Behavior (< http://www.umass.edu/neuro >www.umass.edu/neuro).

The candidate should have a strong record of research examining molecular/cellular mechanisms of development that are of fundamental importance for evolutionary biology. We are interested in candidates whose research addresses issues such as the origin and diversification of body plans, the functional divergence of regulatory pathways into novel developmental systems, or the evolution of body structures. Work with model systems, including nematodes, flies, or fish is encouraged, but outstanding applicants who work on other systems will also be considered. Successful candidates should compliment and bridge current departmental research strengths in neural development, evolutionary biology, and functional morphology.

Evaluation of applications will begin on October 5, 2009 and continue until the position is filled. Position to be filled contingent upon University funding.

Please send application materials to: Evo/Devo Search #R36699, Biology Department, Attn: Karen Nelson, 611 North Pleasant Street, University of Massachusetts, Amherst, MA 01003. Application materials should include a curriculum vitae, research plan, teaching statement, plus the names, phone numbers, and email addresses for 3 referees. 3 letters of recommendation can either be included in the packet or sent electronically to: evodevosearch@bio.umass.edu . The University is part of the 5 College Consortium (< http://www.fivecolleges.edu/ >www.fivecolleges.edu) in the beautiful Pioneer Valley in Western Massachusetts, just 2 hours from Boston and 3 hours from New York City.

The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. The Biology Department is aggressive in its efforts to hire candidates who will enhance the diversity and general balance of the faculty and the sciences.

Duncan J. Irschick Associate Professor Department of Biology 221 Morrill Science Center University of Massachusetts at Amherst Amherst MA 01003

Phone: 413 545 1696; FAX: 413 545 3243 E-mail: irschick@bio.umass.edu http://www.bio.umass.edu/biology/irschick/

Duncan J Irschick <irschick@bio.umass.edu>

UMass Amherst ScaleInsectSystematics

Research Fellow in Scale Insect Systematics University of Massachusetts Amherst

A position is available for a research fellow in the Department of Plant, Soil and Insect Sciences. The position is funded for three years. The successful candidate will implement the goals of a USDA-AFRI project entitled "Molecular identification and cryptic diversity of armored scale insects intercepted in plant quarantine." This will involve managing an active laboratory, a growing insect collection, and an expanding database, under the supervision of the principal investigator.

Specific duties will include preparing DNA, conducting PCR reactions, preparing microscope slides, analysis of DNA sequence data, database management, training and supervision of laboratory assistants, and participation in writing-up of results. The position will involve some travel to scientific meetings and workshops.

Minimum requirements are a bachelor's degree in the life sciences or a related field, experience with DNA-based or specimen-based scientific research, and excellent organizational skills. Experience with database management or bioinformatics would also be an asset but is not required.

The position will have full benefits and a salary of $29,000 - $35,000 per year, depending on qualifications and experience.

To apply, send a CV, cover letter, and the names and contact information for three references, to Dr. Benjamin Normark by September 30, 2009. E-mail (preferred): bnormark@ent.umass.edu. Post: Dept of PSIS, Fernald Hall, University of Massachusetts, Amherst, MA 01003-9320. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

–

Benjamin Normark

Associate Professor Department of Plant, Soil, and Insect Sciences Fernald Hall University of Massachusetts Amherst, MA 01003 USA

office phone and voice mail: +1-413-577-3780 fax: +1-413-545-2115

bnormark@ent.umass.edu bnormark@ent.umass.edu

UNorthCarolina Wilmington PlantSystematics

ASSISTANT PROFESSOR PLANT BIOLOGIST

The Department of Biology and Marine Biology at the University of North Carolina Wilmington (UNCW) invites applications for a tenure-track position beginning in August 2010. Candidates with research interests in plant systematics or any area of plant metabolism at the molecular, cell or organismal level, are particularly encouraged to apply. Duties will include undergraduate and graduate teaching, maintaining an active research program, and directing graduate students. Graduate curricula in Biology include Masters programs in Biology and Marine Biology as well as a Ph.D. program in Marine Biology. Candidates must have a Ph.D. and post-doctoral experience. State of the art science buildings, an extensive vascular plant and algal herbarium and the Center for Marine Science provide excellent support for research. For additional information on faculty and programs see: www.uncw.edu/bio and www.uncw.edu/cmsr. To apply, complete the online application process at http://consensus.uncw.edu by electronically submitting separately (1) a letter of application including brief statements of teaching and research interests, (2) a curriculum vitae, and (3) contact information for three references. MS Word or PDF attachments are preferred. For questions about the position, contact Dr. Michael J. Durako, Search Chair, durakom@uncw.edu or (910) 962-2373. For questions about the online application process, contact Ms. Tracie Chadwick, chadwickt@uncw.edu or (910) 962-3536. Priority consideration will begin November 16, 2009. UNC Wilmington actively fosters a diverse and inclusive working and learning environment and is an equal opportunity employer. Qualified men and women from all racial, ethnic, or other minority groups are strongly encouraged to apply.

Dr. Marcel van Tuinen, Assistant Professor 1051 Friday Hall, Department of Biology & Marine Biology, University of North Carolina at Wilmington, office: 910-962-

2178

"Van Tuinen, Marcel" <vantuinenm@uncw.edu>

UNotreDame DiseaseDynamics

Assistant Professor of Disease Ecology and Assistant/Associate Professor of Epidemiology. University of Notre Dame, Notre Dame, Indiana

Assistant Professor of Disease Ecology. The Department of Biological Sciences seeks faculty candidates who use integrative approaches to study mechanisms that influence disease transmission and/or dynamics. Candidates with cross-disciplinary interests in areas of infectious disease ecology including epidemiology, theoretical modeling, ecological processes, or evolutionary pathways that influence disease pathogens or their vectors are encouraged to apply. The successful candidate will be expected to establish a vigorous externally-funded research program that will complement an active interdisciplinary research community with foci in the ecology, evolution, genetics, and functional genomics of pathogens, their insect vectors, and vertebrate hosts. Apply or inquire at: disease9@nd.edu

Assistant/Associate Professor of Epidemiology. The Department of Biological Sciences seeks faculty candidates who use epidemiological approaches to study diseases of importance to global health. The position is at the Associate Professor level but highly qualified applicants at any level will be considered. Applicants who use theoretical modeling or field-based systems to study disease control or transmission for any pathogen or vector that are of concern in lower or middle-income countries are encouraged to apply. The successful candidate would be expected to establish a vigorous externally-funded research program that complements an active interdisciplinary research community focusing on tropical infectious diseases, especially those transmitted by arthropod vectors. Apply or inquire at: epidem9@nd.edu

Both individuals will participate in the broad initiatives of the Eck Institute for Global Health (http://www.nd.edu/ ~ eigh) and contribute to the undergraduate and graduate teaching mission of the department. The department houses state-of-the-art genomics, bioinformatics, and imaging cores, specialized BSL-3 containment laboratories, insect rearing and research facilities, and an AAALAC-accredited animal facility. Information on department and other college faculty and facilities can be found at http://biology.nd.edu and http://science.nd.edu. Opportunities also exist for collaboration with faculty at the adjoining Indiana University School of Medicine-South Bend. Review of applications will commence on 1 November 2009 and continue until suitable candidates are identified. Qualified individuals should send (pdf format requested) a cover letter, curriculum vitae, separate statements of research and teaching interests, and three letters of reference to the email addresses above.

The University of Notre Dame, an international Catholic research university, is an equal opportunity employer.

Yolonda Wiens <Yolonda.R.Wiens.2@nd.edu>

UOulu PopulationGenetics

Population/evolutionary genetics tenured professorship, Oulu, Finland

At the Biology Department of the University of Oulu, (http://www.oulu.fi/english/) is now open, with deadline for applications on October 12th, 2009 at 4.15 pm (Finnish time, late applications cannot be considered). Please see the following website for information on the position (in English).

http://www.hallinto.oulu.fi/yhallint/kuulutus/-11092009_Prof_genetics_66.rtf for further information, please contact Outi.Savolainen@oulu.fi

Department of Biology PO Box 300 FIN-90014 University of Oulu Finland phone +358-8-5531782

Outi Savolainen <Outi.Savolainen@oulu.fi>

UPennsylvania Evolution

TENURE-TRACK FACULTY POSITION IN EVOLUTIONARY BIOLOGY

The Department of Biology at the University of Pennsylvania invites applications for a tenure-track position in evolutionary biology. We anticipate hiring at the Assistant Professor level, but highly qualified senior applicants will also be considered. We seek an integrative scientist who uses modern approaches to elucidate evo-

lutionary processes, broadly defined. Areas of interest include, but are not limited to, evolutionary and ecological genetics and genomics, evolution of behavior, evolution of development, evolution of complex traits (including morphological and physiological traits), and evolution of epigenetic mechanisms.

We are open to applications from scientists studying any organism and at any level of biological organization. The ideal applicant will show strong potential for interaction across the diverse disciplines represented in the Department. Apply at facultysearches.provost.upenn.edu/applicants/Central?quickFind=37232 and include curriculum vitae, statements of research and teaching, and representative reprints or manuscripts. Applicants at the Assistant Professor level should also submit the names and contact information for three individuals who will provide a letter of recommendation.

Review of applications will begin in late October, and continue until the position is filled.

The University of Pennsylvania is an equal opportunity, affirmative action employer. Women and minority candidates are strongly encouraged to apply.

Any inquiries may be addressed to Paul Schmidt at schmidtp@sas.upenn.edu.

UPittsburgh EvolutionBiol

TWO FACULTY POSITIONS

Biological Sciences

The Department of Biological Sciences at the University of Pittsburgh invites applications for two full-time tenure-track faculty appointments (Ecology & Evolution; Biological/Biomedical Sciences), pending budgetary approval. Appointments are anticipated to begin in September 2010 and will continue to advance our goal of establishing a broad-based interactive community of scientific researchers in modern biology. We encourage candidates working in any area of biological sciences to apply, we especially encourage applications from those working in the following areas:

I. Ecology & Evolution

* Community, Ecosystem or Global Change ecology * Theoretical ecology or evolution * Genomic, Phylogenetic, Molecular or Developmental evolution * Animal, Plant or Microbial systems

II. Biological or Biomedical Sciences

* Microbiology, including host-pathogen interactions * Systems biology * Cell and Developmental Biology, including neurobiology and physiology * RNA biology * Macromolecular Structure/Function We anticipate making both appointments at the ASSISTANT PROFESSOR level. The successful candidates must have a Ph.D. and extensive postdoctoral experience and will be expected to establish extramurally funded research programs, train graduate students, and actively participate in undergraduate education and research. To ensure full consideration, applications should be received by November 1, 2009. Applicants should email a single PDF document identifying the search they would like to be considered for in the subject line and containing a curriculum vitae, a statement of research accomplishments and goals, and a brief description of teaching interests to biojobs@pitt.edu. In addition, applicants should arrange to have at least three letters of reference sent to:

Search Committee Department of Biological Sciences University of Pittsburgh Pittsburgh, PA 15260 (412) 624-4266

Further information on the Department of Biological Sciences is available at: http://www.pitt.edu/˜biology. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

Tia-Lynn Ashman Professor Department of Biological Sciences 4249 Fifth Ave. & Ruskin University of Pittsburgh Pittsburgh, PA 15260-3929 phone: 412-624-0984 fax: 412-624-4759 web: http://www.pitt.edu/-˜ biohome/Dept/Frame/Faculty/ashman.htm "Ashman, Tia-Lynn" <tia1@pitt.edu>

URichmond DiseaseEvolution

Colleagues,

The University of Richmond is seeking an epidemiologist at the Assistant Professor level to join the Department of Biology. Some details of the position are below, additional information and the on-line application is available at: https://www.urjobs.org/. This position might be of interest to individuals working on questions concerning evolution of pathogens or evolutionary epidemiology.

Thanks for your time, Malcolm

Malcolm Hill, Ph.D. Associate Professor and Chair Department of Biology University of Richmond Richmond, VA 23173 804-287-6628 —-

The Department of Biology invites applications for a tenure-track position in epidemiology at the assistant professor level, beginning fall 2010. We seek an individual who uses mathematical modeling or statistical methods to investigate aspects of epidemiology including, but not limited to, infectious disease, molecular epidemiology, environmental health or public health. Prior teaching experience and a dynamic research program that would actively engage undergraduates and attract extramural funding is desired. Teaching expectations include introductory courses, upper level electives, and interdisciplinary teaching associated with our Integrated Quantitative Science minor.

Applicants should visit https://www.urjobs.org/ to complete a brief application. Applicants will also be asked to supply electronically a letter of application, a curriculum vitae, statement on teaching philosophy and experience, a statement describing the applicant's research agenda, and pre-prints/reprints. Applicants should arrange for three letters of recommendation, including at least one that addresses teaching effectiveness and potential, to be sent electronically to psmallwo@richmond.edu or via regular mail to Peter Smallwood, Department of Biology, University of Richmond, VA 23173. The review of applications begins October 15, 2009.

The University of Richmond is committed to developing a diverse workforce and student body and to being an inclusive community. We strongly encourage applications from candidates who will contribute to these goals. For more information on the department, resources, and teaching assignment, see (http:/-/biology.richmond.edu/).

Department of Biology: The Gottwald Center for the Sciences houses the Departments of Biology, Chemistry and Physics and had an extensive renovation/expansion of laboratory and teaching facilities completed in 2005. Approximately 50 biology majors graduate each year, many of whom go on to attend top graduate and medical schools. The department offers courses and research opportunities in the areas of cell and molecular biology, developmental biology, ecology, evolution, genetics, immunology, invertebrate biology, microbiology, neurobiology, and organismal biology. There is also a concentration in Neuroscience, a major in Environmental Studies, and a major in Biochemistry and Molecular Biology. Our Director of Pre-Health Education advises students interested in health-related careers. Four Laboratory Directors are responsible for laboratory preparation and teaching of some non-majors biology courses, as well as assisting with our introductory biology courses. A full-time Director of Biological Imaging manages our microscopy suite (SEM, TEM, and confocal microscopes). The university also maintains an animal facility, greenhouse and herbarium, DNA sequencer, and equipment related to computer imaging technology, PCR, digital gel documentation, etc., which are available for student and faculty use. On campus field sites including Westhampton Lake and Westhampton Woods are available for class or personal research projects. In addition, the University is near a diversity of habitats, including the James River, the Blue Ridge Mountains, and the Atlantic Ocean.

mhill2@richmond.edu mhill2@richmond.edu

USouthernCalifornia ComputationalBiol

The Molecular & Computational Biology Program at the University of Southern California invites applications for a tenure-track Assistant Professor in Molecular or Evolutionary Genomics. We seek an innovative, productive scientist using cell and molecular biology approaches, evolutionary principles, or computational tools to address basic questions at a genomic level. We especially welcome applicants working at intersection of these disciplines.

For additional information please visit our website: http://college.usc.edu/bisc/people/jobsearch.cfm Review of applications will begin immediately. Please send a curriculum vitae, a statement of research objectives, and three letters of recommendation to: msearch@usc.edu or, if necessary, Eleni Yokas, Search Committee, Department of Biological Sciences, RRI201, University of Southern California, Los Angeles, CA 90089-2910.

USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups, are encouraged to apply.

bradfole@usc.edu bradfole@usc.edu

UToronto Scarborough AnimalBiodiversity

Assistant Professor in Animal Biodiversity & Biogeography University of Toronto Scarborough

The Department of Biological Sciences invites applications for a tenure stream position in Animal Biodiversity & Biogeography. The position is at the rank of Assistant Professor and begins July 2010. The successful applicant will be expected to establish a strong, externally funded research program and to supervise graduate students. Candidates whose research incorporates evolutionary perspectives and an active field program are especially encouraged to apply. The successful applicant will join a multi-disciplinary department and will be expected to interact with existing research clusters (e.g., Biological Dynamics of Environmental Change, Integrative Behaviour & Neuroscience, and/or Physiology). More information about departmental research can be found at www.utsc.utoronto.ca/biosci .Applicants should have post-doctoral experience and strong evidence of excellence in research. The successful candidate will have a strong commitment to excellence in teaching at both the undergraduate and graduate level and the ability to contribute to a planned graduate program in Conservation and Biodiversity. Salary will be commensurate with qualifications and experience.

Applications must include a CV, statements of research and teaching interests and three representative publications. Applications must be submitted online at http://www.jobs.utoronto.ca/faculty.htm (Job #0900626). Applicants should also arrange that letters of reference from three referees familiar with the candidate's research be sent directly to: Professor Greg Vanlerberghe, Chair, Department of Biological Sciences, University of Toronto Scarborough, 1265 Military Trail, Toronto, ON M1C 1A4, Canada or e-mailed to biology-general@utsc.utoronto.ca All materials must be received by Oct 19th, 2009.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. The University is responsive to the needs of dual career couples. The University of Toronto offers the opportunity to conduct research, teach, and live in one of the most diverse cities in the world. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Jessica Barnett Assistant to the Chair Dept. of Biological Sciences University of Toronto Scarborough Room SW421B 1265 Military Trail Scarborough, Ontario M1C 1A4 416-287-7399; FAX 416-287-7676

Jessica Barnett <jbarnett@utsc.utoronto.ca>

UWesternSydney Biodiversity

Ref 708/09 Lecturer/Senior Lecturer in Terrestrial Ecology Centre for Plants and the Environment College of Health and Science

An exciting opportunity exists to join the Centre for Plants and the Environment. We are seeking an energetic scientist with a sound research track record and established or emerging international reputation in terrestrial ecology. The Centre's research is framed around 3 central themes - Climate Change, Ecological Systems and Biodiversity, and Sustainable Plant Production. Applications from candidates with interests in biotic interactions and biodiversity or community and/or ecosystem dynamics who can enhance current research strengths and foster links between research and teaching around these themes will be particularly welcome. The Centre is equipped with state-of-the-art research equipment and infrastructure and is currently developing facilities that will enable integrated investigation of the impact of rising atmospheric CO2 concentrations and climate change on tree structure and function, along with effects on soil microbial communities and nutrient/carbon cycling processes and plant-insect interactions. Current facilities and those under construction include: whole-tree climate-controlled chambers, climate-controlled glasshouse, growth room and growth chamber facilities, rainout shelters, Eddy flux towers and Australia's first forest Free Air CO2 Enrichment experiment in native woodland. These will be supported by excellent new laboratory facilities for plant biology and biochemistry, soil science, microbiology, molecular biology and plant- insect interactions, along with a next-generation DNA sequencing facility. The successful applicant will be expected to conduct research within the Centre for Plants and the Environment and contribute to teaching in the School of

Natural Sciences.

Remuneration Package: Academic Level B $88,749 to $104,683 p.a.; Academic Level C $107,853 to $123,724 p.a.(comprising Salary Academic Level B $74,994 to $88,556 p.a.; Academic Level C $91,266 to $104,831 p.a., 17% Superannuation and Leave Loading)

Position Enquiries: Professor John Cairney, +61 (02) 4570 1404, or j.cairney@uws.edu.au

Closing Date: 7 October 2009

How to Apply: Go to the web site http://-uws.nga.net.au/cp/ and scroll to the job reference 708/09. Click on the reference number and follow the instructions at the bottom of the page on 'How To Apply'.

Dr Markus Riegler Centre for Plants and the Environment School of Natural Sciences University of Western Sydney Locked Bag 1797 Penrith South DC NSW 1797 Australia email: m.riegler@uws.edu.au office: +61-(0)2-4570 1229 fax: +61-(0)2-4570 1314

"be part of symbiosis research"

M.Riegler@uws.edu.au M.Riegler@uws.edu.au

WashingtonStateU EvoDevo

Evolutionary Developmental Biology Assistant/Associate/Professor School of Biological Sciences, College of Sciences Washington State University Search #5231

The School of Biological Sciences at Washington State University, Pullman, Washington, invites applications for a full-time, permanent, tenure-track faculty position in Animal Evolutionary Developmental Biology to begin August of 2010. Rank for this position is open at Assistant, Associate Professor or Professor. Candidates should have a record that demonstrates relevant ability in animal organismal and evolutionary biology, collaborative research and training, and that complements our faculty's strengths in organismal and evolutionary biology, molecular evolution, population and ecological genetics, systematics, ecology, and physiology. Applicants must show evidence, commensurate with rank, of outstanding teaching and the development and maintenance of an internationally recognized, extramurally-funded empirical research program in animal evolutionary developmental biology. Candidates who are pursuing rigorous, theory-driven empirical research using sophisticated analytical tools are encouraged to apply.

Required qualifications include an earned doctorate at time of application, a record of research accomplishment commensurate with rank in evolutionary developmental biology of animals, evidence of a commitment to teaching excellence in undergraduate and graduate courses and effective communication skills. Successful candidates will be expected to develop and maintain a vigorous, independent research program supported by extramural funding, train graduate and undergraduate students, participate in graduate and undergraduate teaching, and advance the college's commitment to diversity and multiculturalism.

To apply, send a letter of application addressing qualifications, a curriculum vitae, and teaching and research statements. In addition, please provide the names, addresses, and contact information of at least three references that can address research history and teaching and communication skills. Review of applications begins October 18, 2009. Send all materials electronically (PDF) to:

Evolutionary Developmental Biology Search Committee c/o Linda Larrabee larrabee@wsu.edu Phone: (509) 335-5768

Full notice of vacancy can be viewed at http://-/www.hrs.wsu.edu/employment/fapvacancies.aspx EEO/AA/ADA

For information on the status of your application, please contact Linda Larrabee at (509) 335-5768 or larrabee@wsu.edu.

"Larrabee, Linda" <larrabee@wsu.edu>

WashingtonStateU EvoDevo 2

Evolutionary Developmental Biology Assistant/Associate/Professor School of Biological Sciences, College of Sciences Washington State University Search #5231

The School of Biological Sciences at Washington State University, Pullman, Washington, invites applications for a full-time, permanent, tenure-track faculty position in Animal Evolutionary Developmental Biology to begin August of 2010. Rank for this position is open at Assistant or Associate Professor or Professor. Candidates should have a record that demonstrates relevant ability in animal organismal and evolutionary biology,

collaborative research and training, and that complements our faculty's strengths in organismal and evolutionary biology, molecular evolution, population and ecological genetics, systematics, ecology, and physiology. Applicants must show evidence, commensurate with rank, of outstanding teaching and the development and maintenance of an internationally recognized, extramurally-funded empirical research program in animal evolutionary developmental biology. Candidates who are pursuing rigorous, theory-driven empirical research using sophisticated analytical tools are encouraged to apply.

Required qualifications include an earned doctorate at time of application, a record of research accomplishment commensurate with rank in evolutionary developmental biology of animals, evidence of a commitment to teaching excellence in undergraduate and graduate courses and effective communication skills. Successful candidates will be expected to develop and maintain a vigorous, independent research program supported by extramural funding, train graduate and undergraduate students, participate in graduate and undergraduate teaching, and advance the college's commitment to diversity and multiculturalism.

To apply, send a letter of application addressing qualifications, a curriculum vitae, and teaching and research statements. In addition, please provide the names, addresses, and contact information of at least three references that can address research history and teaching and communication skills. Review of applications begins October 25, 2009. Send all materials electronically (PDF) to:

Evolutionary Developmental Biology Search Committee c/o Linda Larrabee larrabee@wsu.edu Phone: (509) 335-5768

Full notice of vacancy can be viewed at http:/-/www.hrs.wsu.edu/employment/fapvacancies.aspx EEO/AA/ADA

For information on the status of your application, please contact Linda Larrabee at (509) 335-5768 or larrabee@wsu.edu.

"Larrabee, Linda" <larrabee@wsu.edu>

WashingtonU EvolutionaryBiol

Spencer T. Olin Professor in Evolutionary Biology

The Department of Biology, Washington University in St. Louis, seeks applications for an endowed professorship, made possible by a gift from the Spencer T. and Ann W. Olin Foundation. We seek an innovative and accomplished scientist whose research interests are in evolutionary biology. We encourage applicants at both the associate and full professor level and from all areas of evolutionary biology, including evolutionary genomics, population genetics, evolution/development and evolutionary ecology. Research approaches could be theoretical, experimental or involve natural systems. This endowed professorship will be supported with a generous allotment of space and start-up funds. The tenured Spencer T. Olin Professor will establish a vigorous teaching and research program and will interact with faculty across the Biology department and within the Division of Biology and Biomedical Sciences. Opportunities exist for interaction with the Washington University Center for Genome Sciences, the Donald Danforth Plant Science Center, the Missouri Botanical Garden, the St. Louis Zoo and the Washington University Tyson Research Center, a 2,000-acre field station located 20 miles from the Danforth Campus.

Consideration of applicants will begin on November 2, 2009 and continue until the position is filled. Letters of application, accompanied by curriculum vitae, statements of research and teaching interests, reprints of up to three selected papers, and the names and affiliations of three persons who can be contacted for letters of recommendation can be sent either electronically or by mail to:

Spencer T. Olin Professor Search Department of Biology Campus Box 1137 One Brookings Drive St. Louis, MO 63130-4899 spencertolinsearch@biology2.wustl.edu

Women and members of minority groups are encouraged to apply. Washington University is an Affirmative Action Employer.

Judy Musick <jmusick@biology2.wustl.edu>

WillametteU MicrobialEvolution

Willamette University's Biology Department welcomes applications for a tenure-track position at the rank of assistant or associate professor to begin August 2010. We are seeking a broadly-trained microbiologist who is strongly committed to excellence in both teaching and research in a liberal arts college environment. The ideal candidate will contribute expertise in microbial

genomics, microbial ecology, biogeochemistry, or microbial evolution and diversity, offer advanced electives in his/her field, and participate in our introductory biology and general education curriculum.

Applicants must have a PhD in the biological sciences, post-doctoral research experience, and are expected to establish an active research program involving undergraduates. Competitive start-up packages are available. Candidates wishing to be considered at the associate level must show an exceptional record of scholarly achievement and excellence in pedagogy consistent with their rank.

For more information about the Department of Biology, please visit www.willamette.edu/cla/biology . To Apply: Applicants should submit the following materials electronically in MS Word or PDF formats to micbiol@willamette.edu:

Cover letter describing the candidate's interest in the position Curriculum vitae Research statement Teaching statement Diversity statement Candidates whose research interests complement the existing faculty expertise in ecology, evolution, and molecular genetics, will be preferred. The teaching statement should identify courses of interest and describe the candidate's teaching experience and philosophy. The statement on diversity will describe the candidate's experience with and perspective on diverse populations, both in the classroom and in the community.

Candidates must solicit three reference letters that address both research and teaching potential. Reference letters should be sent directly from recommenders to:

David Craig, Search Chair Biology Department Willamette University 900 State Street Salem, OR 97301

Inquiries may be addressed to: David Craig, dpcraig@willamette.edu.

About Willamette: Founded in Salem in 1842 as the first university in the West, Willamette takes full advantage of its location in the heart of the Willamette Valley, across the street from the state capitol and a one-hour drive from Portland, Eugene, the Oregon Coast and the Cascade Mountains. Willamette is a selective institution with a national student body of roughly 1700 undergraduates in the College of Liberal Arts along with graduate programs in law, management, and education. The academic profile of our undergraduates is strong, with a median solid-subject high school GPA of 3.75 and combined SAT score of 1850. Recent students have received prestigious NSF, Watson, Truman, Fulbright, and Goldwater fellowships. For more information please visit www.willamette.edu . Application Deadline: For full consideration, applications should be received by September 28, 2009. Review will continue until the position is filled.

Willamette University also appreciates the completion of our Confidential Applicant Information form, which assists in the evaluation of our recruitment efforts, which will remain in confidential files in the Human Resources Office. You may download the form and submit it electronically to Human Resources at humanresources@willamette.edu.

Believing that diversity contributes to academic excellence and to rich and rewarding communities, Willamette University is committed to recruiting and retaining a diverse faculty, staff and student body. We seek candidates, particularly those from historically under- represented groups, whose work furthers diversity and who bring to campus varied experiences, perspectives and backgrounds.

Christopher Irwin Smith Assistant Professor Department of Biology Willamette University Salem, OR 97301 ph: 503-370-6181 fax: 503-375-5425

email: csmith@willamette.edu csmith@uidaho.edu chris_smith@post.harvard.edu

http://www.willamette.edu/~csmith/ChrisSmith.htm csmith@willamette.edu csmith@willamette.edu

Other

Adaptation videos photos 59
BAC outsourcing 59
Bootstrap nonlinear PCA 59
Bootstrapping nonlinear PCA 2 60
cpDNA from NCBI 60
DPGP 40Drosophila genomes 60
Ecuador FieldAssist AvianEvolution 60
First edition Origin 61
Fish life tables 61
Fluorescent labeled dUTP 61
Foshan China PopulationGenomics Dec1-7 CallForSpeakers 61
Glaciation GeneticDiversity 62
Glaciation GeneticDiversity answers 62
Hybaid Multiblock computer 63
Link genetic distance 63
Longworth traps wanted 64
Microarray service facilities 64
Network Of Life 64
PopExpansion NeutralityTests 64
RoyalSociety 65
Software Metapop update 65
StAndrews DarwinDay videos 66
Student paper award 66
Teaching simulation programs 67
Transgenic Drosophila 67
Tree reliability answers 67
Tree reliability tests 68
UGuelph DarwinArtExhibit Oct9-30 69
Visible Implant Elastomer for reptiles answers 69

Adaptation videos photos

Dear evoldir,

our biology department is having a stand at a science fare and our subject is about evolution and adaptations in nature. Our main goal is to inspire young students to study biology.

As part of the stand we want to have photos and videos showing examples of different kinds of adaptations and evolutionary strategies. If anyone can recommend cool photos and videos that we can show we would be very grateful.

Best wishes,

Jon

Jon Bråte PhD student

Microbial Evolution Research Group (MERG) Department of Biology University of Oslo P.b. 1066 Blindern N-0316 Oslo Norway Phone: +47 22855083

jon.brate@bio.uio.no jon.brate@bio.uio.no

BAC outsourcing

Dear all,

we are planning to get a BAC library on a microcrustacean made. Does anybody have experience with getting this commercially done and could recommend a company to us? I am happy to assemble all answers and put them on evoldir.

Many thanks in advance!

Kind regards,

Isa Schon Royal Belgian Institute of Natural Sciences, Brussels, Belgium isa.schoen@naturalsciences.be

Dr Isa Schön Royal Belgian Institute of Natural Sciences Freshwater Biology Vautierstraat 29 B - 1000 Brussels Belgium Tel.: + 32 2 62 74 312 Fax : + 32 2 62 74 113

Isa Schön <Isa.Schoen@naturalsciences.be>

Bootstrap nonlinear PCA

Dear Evoldir members,

I would greatly appreciate if someone of you knows how to perform a bootstrap in SPPS for nonlinear principal component analysis. Ive already obtained the component loadings and the variance accounted for (68%), but I dont have a clue how to assess the stability of the solution. Any idea about this is welcome.

Best regards,

Carmen

carmen_burghelea@yahoo.es

Bootstrapping nonlinear PCA 2

Dear Evoldir members,

I will greatly appreciate if someone of youcould help me withthe steps to perform a bootstrap inR forcategorical principal component analysis= CATPCA(nonlinear PCA). I want to evaluate thestability of the CATPCA-solution. Any information would be helpful.

Reply to: bcarmen@uvigo.es

Thanks!

Carmen

cpDNA from NCBI

Dear EvolDir members,

I would like to collect all the protein-coding genes(CDS) of chloroplast genomes of several taxon from NCBI, could someone use or recommend some program to conduct this problem automatically?

Sincerely,

Bojian Zhong

bjzhong@gmail.com

Fudan University, China

Bojian Zhong <bjzhong@gmail.com>

DPGP 40Drosophila genomes

DPGP announces the availability of Release 1.0 of "50 D. melanogaster genomes"

The Drosophila Population Genome Project released today the reference version (Release 1.0) of the initial sample of Drosophila melanogaster genomes sequenced by the DPGP using first generation (single-end and 36 bp) Solexa/Illumina technology and assembled using maq 0.6.8.

The sample consists of the sequences for the 5 major chromosome arms (X, 2L, 2R, 3L and 3R) for 37 inbred genomes from Trudy Mackay's set of inbred lines sampled in Raleigh, NC and a set of sequenced chromosomes (7 chrXs, 6 chr2s and 5 chr3s) from a sample of Malawi isofemale lines that were inbred using balancers. The data for each chromosome arm are in FASTQ format and list of the regions of residual heterozygosity and identity by descent are attached. Repeated sequence are filtered (set to "N"). The "raw data" are available in the NCBI Short Read Trace Archive. The average coverage of the unique portions of all these genomes is >10X.

Release 1.0 data can be accessed at < http://-www.dpgp.org/ >.

chuck <chlangley@ucdavis.edu>

Ecuador FieldAssist AvianEvolution

Field assistant to study a cooperative breeding system in South America

We are looking for a highly motivated field assistant to join us working on the breeding system of the endangered El Oro parakeet (Pyrrhura orcesi). The apparently cooperative breeding system is studied for the first time in this species. Until now cooperative behaviour has been seldom observed in parakeets and our work focuses on the factors underlying the development of delayed dispersal and cooperative breeding. More details about the project can be looked up at: www.biologie.uni-freiburg.de/data/bio1/schaefer/ .

Fieldwork will take place at Buenaventura reserve (www.fjocotoco.org) near Pinas, southwest Ecuador. Fieldwork includes capturing birds with mist nets and inside artificial nest boxes, taking morphometric measurements and blood samples, banding of birds and field observation of parakeet flocks. The parakeet flocks are distributed throughout the whole reserve and adjacent areas, therefore long and exhausting daily treks across the foothills of the Andes are unavoidable. Fieldwork will be done during rainy season and we will work 5-6 days a week. Moreover, batteries (~3kg) for nest cameras have to be changed every two days. The project will cover the costs for flight and accommodation at the reserve. If required, a letter of recommendation will be draw up. The position is available from January until end of April 2010.

If interested please send an email with a short CV and application letter (why you are +interested) to: nadine.klauke@biologie.uni-freiburg.de

Nadine Klauke <nadine.klauke@biologie.uni-freiburg.de>

Best regards,

Julien

julien.chopelet@ucd.ie

chopeletjulien@hotmail.com

First edition Origin

Dear All:

We in Vancouver have been running a year-long series of events to commemorate Darwin (www.vanevo.ca).

On Nov. 24th, the anniversary of the publication of the Orgin, the Vancouver Aquarium (www.vanaqua.org) will be hosting an evening titled "On the Origin of Whales." They would like to showcase a first edition of the book. Does anyone know where I would go to get one on loan?

Cheers,

Arne Mooers –

Dr. Arne Mooers Biological Sciences, Simon Fraser University Burnaby, BC Canada V5A 1S6 tel. +1 778 782 3979 skype: arnemooers http://www.sfu.ca/~amooers (lab) http://www.sfu.ca/fabstar (evolution@sfu) http://www.scientists-4-species.org (endangered species) http://www.vanevo.ca (Vancouver Evolution Festival)

Arne Mooers <amooers@sfu.ca>

Fish life tables

Dear Evoldir list,

I am looking for life table data for both sex changing (protogynous or protandrous) and gonochoristic marine fish. I need the type of life history data that would go into a Leslie matrix. Ideally, this would be age-specific abundance, survival (lx) and fecundity (bx) values for both sexes, as well as information about the transition between sexes. These data are hard to get, so stage-specific data would help. If you can point me toward any published or unpublished data that might be relevant it would help a lot.

Fluorescent labeled dUTP

Dear List: I am interested in incorporating fluorescent dUTP into a PCR reaction in order to perform genotype screening for polymorphic loci. I have a protocol for this using rhodamine green (Molecular Probes), but this product is no longer available. Possible replacements include ChromaTide Alex Fluor 488-5-dUTP 1 mM in TE buffer (Invitrogen, catalogue number: C-11397) or Fluorescein-aha-dUTP (Invitrogen, catalogue number: F32767).

Has anyone tried either of these for this application? If so what concentrations were used in the PCR reactions? Anything else I should know?

Thanks! Steve

Steve Kimble PhD student, Department of Forestry and Natural Resources Purdue University skimble@purdue.edu sjkimble@gmail.com 205.337.4843

sjkimble@gmail.com

Foshan China PopulationGenomics Dec1-7 CallForSpeakers

Population Genomics - 3rd World Congress of Gene, 1-7 December, 2009, Foshan, China

http://www.bitlifesciences.com/wcg2009/default.asp
Call for speakers and co-Chair for a new session on "Population Genomics"

This Session will cover the following potential topics: - Concepts and approaches in population genomics - Genome-wide association studies in humans for identifying disease susceptibility loci - Candidate gene and genome-wide association studies in plants and animals - Application of genomics in conservation of biodiversity - Signatures of selection in natural populations

The speakers will enjoy a special-rate package, and only need to pay $1000 instead of $1749. The package includes the following:

1) All Program 2) Lunch during the conference 3) Reception Banquet 4) Coffee Break 5) Handbook and other conference materials of WCG 2009. 6) A Free Paper Abstract in the Handbook of WCG 2009. 7) Breakfast and Supper during the conference 8) 3 Days five-star Hotel during the conference

If you are interested in giving a talk, please submit the title of your talk to Ms. Angela Wang (angela@genecongress.com) or Prof. Om Rajora (Om.Rajora@unb.ca)

orajora@unb.ca

Glaciation GeneticDiversity

Dear colleagues,

I am hoping someone on the EvolDir site will be able to help me out. I wish to simulate the impacts of glaciation on the spatial distribution of genetic diversity, but am uncertain what programs are availble for such a purpose.

Specifially, I wish to simulate the impacts of a population bottleneck (maintained for 'x' generations) and subsequent population expansion on the spatial distribution of genetic diversity (Ho, R) for a multiple microsatellite markers. Supposedly, this is too complicated a process for EASYPOP. Ideally the simulation program would be able to model either a one dimensional stepping stone model, and/or leptokurtic dispersal.

I have no leads at this time, so any advice is greatly appreciated.

Best wishes,

Dan Hasselman

Dan Hasselman Marine Gene Probe Lab Dalhousie University Halifax, NS B3J 4J1

dhasselm@dal.ca

Glaciation GeneticDiversity answers

I posted a request last week on evoldir for advice regarding modelling options for exploring the impacts of post-glacial range expansion on the spatial distribution of genetic diversity under a variety of dispersal models. I received numerous helpful replies which I have coalated below.

Here is the original post:

Dear colleagues,

I am hoping someone on the EvolDir site will be able to help me out. I wish to simulate the impacts of glaciation on the spatial distribution of genetic diversity, but am uncertain what programs are availble for such a purpose. Specifially, I wish to simulate the impacts of a population bottleneck (maintained for 'x' generations) and subsequent population expansion on the spatial distribution of genetic diversity (Ho, R) for a multiple microsatellite markers. Supposedly, this is too complicated a process for EASYPOP. Ideally the simulation program would be able to model either a one dimensional stepping stone model, and/or leptokurtic dispersal.

I have no leads at this time, so any advice is greatly appreciated.

Best wishes,

Dan HasselmanDan Hasselman Marine Gene Probe Lab Dalhousie University Halifax, NS B3J 4J1 dhasselm@dal.ca

Here are the responses, which I have edited to maintain anonymity:

1) You could try splatche (v. 1.1) (for SPatiaL And Temporal Coalescences in Heterogenous Environment), developed by Excoeffier and colleagues

2) You can do this in SimCoal2 (Excoffier's group; http://cmpg.unibe.ch/software/simcoal2/) or Dick Hudson's ms (upon which SimCoal is partly written).

3) I think IBDSim is the simulation program you're looking for. http://kimura.univ-montp2.fr/ ~ rousset/-IBDSim.html 4)One simulation program that will likely do what you want is called SIMDIV that was written by Jody Hey. There is not a paper describing the program, but you can find documentation, and down-

load the program, from Jody Hey's website (http://-lifesci.rutgers.edu/~heylab/). You can specify many parameters including: time since divergence, Ne of populations before and after divergence, growth rates of populations before and after divergence, etc... It is fairly comprehensive.

5) See Carr and Marshall. 2008. Intraspecific phylogeographic genomics from multiple complete mtDNA genomes in Atlantic cod. Genetics 180: 381-389.

6)I list a bunch of simulation programs in http://-simupop.sourceforge.net/Main/Features (people may have other suggestions) and you may find one of them (perhaps Bottleneck?) usable. If none of them works for your application, please be assured that simuPOP can certainly simulate the evolutionary process that you need, provided that you know exactly what to simulate, and you or someone in your group can program in Python. Your email did not describe your simulation in detail, but I guess you can use a demographic model with bottleneck and migration (http://simupop.sourceforge.net/-manual/build/4_userGuide.html#demographic-changes), and self-defined statistics (http:/-/simupop.sourceforge.net/manual/build/-4_userGuide.html#statistics-calculation-operator-stat and http://simupop.sourceforge.net/manual/build/-6_userGuide.html#output-statistics because I am not sure what your Ho and R are). The landscape genetics example in the simuPOP online cookbook (http:/-/simupop.sourceforge.net/cookbook/pmwiki.php/-Cookbook/LandscapeGenetics) might help. Please feel free to join the simuPOP mailinglist and discuss your simulation there.

7)It sounds like what you're interested in is very similar to: Jesus, F. F., J. Wilkins, and J. Wakeley, 2006. Expected coalescence times and segregating sites in a model of glacial cycles. Genetics and Molecular Research 5:466-474. The software is available at John Wakeley's website. Its in C and you'll need to know some of the language in order to get it up and running.

8)Hickerson MJ has published a few papers on this in Evolution over the last 3 years that might help.

9)If you have a Mac, you can try my own software "Marlin" which provides a graphical user interface for creating spatially explicit simulations, and which can only model colonizations with different dispersal models. Otherwise, I would recommend QuantiNemo, upon which my program is based, but which is also available for Windows and Linux.

dhasselm@dal.ca

Hybaid Multiblock computer

I am looking to purchase a computer for a Hybaid MultiBlock System Version 2.01 that you may have stopped using. Our computer fizzled out and the company is out of business. We have six PCR blocks that we may have to dispose of otherwise.

Seifu Seyoum, Ph.D. Florida Fish and Wildlife Conservation Commission Fish and Wildlife Research Institute 100 Eighth Avenue SE, St. Petersburg, FL 33701 Tel: 727-896-8626 (x3110/3212) Fax: 727-823-0166 Email: seifu.seyoum@myfwc.com Institute Website: www.floridamarine.org "Seyoum, Seifu" <Seifu.Seyoum@MyFWC.com>

Link genetic distance

Dear community,

I am looking for software for phylogenetic inferences which implements the Link et al. (1995) distance measure as for example TREECON. The problem with Treecon is that I cannot access the generated bootstrap trees I need for further analysis in other programs. I tried it with the similar Jaccard formulae on which Link's distance measure is based and which works fine in FAMD but although the topology of the NJ tree based on Jaccard is the same the bootstrap values differ considerably. NeiLi is also no alternative.

Any help would be highly appreciated,

regards,

Matthias

Bavarian State Collection of Zoology # Münchhausenstraße 21 # 81247 Munich # Germany # Tel. +49 (0)89 - 8107 256 # Fax +49 (0)89 - 8107 300

Matthias Felix Geiger <matthias.f.geiger@stud.uni-muenchen.de>

Longworth traps wanted

Hi, I'm after around 80 Longworth traps to supplement those I already have for a PhD project involving the St Kilda fieldmouse. I'm sure there must be hundreds around the UK sitting unused, if anyone would be willing to put some on long term loan (3 years) I'd be very grateful.

Thanks, Tom Black

T.W.Black@sms.ed.ac.uk

Wild Evolution Group Institute of Evolutionary Biology School of Biological Sciences University of Edinburgh West Mains Road Edinburgh EH9 3JT

Tel: +44 (0) 131 651 3612 Fax: +44 (0) 131 650 6564

T.W.Black@sms.ed.ac.uk T.W.Black@sms.ed.ac.uk

Microarray service facilities

Folks–

Some changes in our in-house microarray facility are leading me to explore alternative service facilities.

I'm looking for recommendations on academic/commercial operations where I can have custom two-color microarrays hybridized & scanned. Ideally, I'm looking for a service facility where I can send the arrays I already have printed, and samples (either at the RNA extraction or labelled cDNA stage) and get data back as .gpr/.tiffs or equivalent.

I'm particularly interested in a facility that uses one of the new high-res scanners.

If you've actually used such a facility, I'd like to know whether your experience has been positive/negative, what turnaround time is, and cost information.

Though I myself would like a USA-based facility, I'll compile & post any responses I get. You can email me at dudycha @ biol.sc.edu

Thanks,

Jeff

–

Jeffry L. Dudycha Assistant Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208 dudycha [at] biol.sc.edu http://-/www.biol.sc.edu/ ~ dudycha dudycha@sc.edu dudycha@sc.edu

Network Of Life

The Royal Society which has just published an issue of Philosophical Transactions of the Royal Society B: Biological Sciences entitled: The network of life: genome beginnings and evolution compiled and edited by Mark A Ragan, James O McInerney and James A Lake - see http://rstb.royalsocietypublishing.org/site/-2009/network_life.xhtml for further details. I would very much like to promote this issue to your readers at the specially reduced rate of Â£47.50 as we know that it will be of immense interest to them.

Note that the specially discounted price is only available by contacting Debbie Vaughan at the Royal Society direct (debbie.vaughan@royalsociety.org <mailto:debbie.vaughan@royalsociety.org>) or by contacting Portland Customer Services (quoting reference TB 1527) using the contact details on the Portland Press website. Please note that the special offer price will not be on the website so it should be mentioned separately in any communication.

Felicity Davie Tou-can Marketing The Holly 42 Heath Hill Road South Crowthorne Berkshire RG45 7BW

Tel. +44 (0)1344 466600 Fax. +44 (0)1344 466601 E-mail: felicity@tou-can.co.uk www.tou-can.co.uk felicity@tou-can.co.uk felicity@tou-can.co.uk

PopExpansion NeutralityTests

Dear Evoldir members,

I am working with a tuber moth that invaded some South American countries in the 70âs. I sequenced a fragment of mitochondrial DNA (cyt b). I want to know if i can use neutrality test (Tajima D, Fuâ) and (mismatch distribution, R2 or raggedness index) in order to characterize population expansion in the invasive populations.

Is it appropriated to use that kind of test in recent invasive populations (last forty years)?

Thanks for any input or suggestions you can provide

Magally Torres CNRS/IRD avenue de la Terrasse, BÃtiment 5, IRD 91198 Gif sur Yvette France Mail: magallytorres@gmail.com / magally.torres@legs.cnrs-gif.fr

Magally Torres Leguizamon <magallytorres@gmail.com>

RoyalSociety

We have recently published some content in Biology Letters that I believe would be of interest to people who are on the EvolDir mailing list. In fact, some of the contributory authors have suggested I contact you.

In celebration of Darwin 200, we have published 3 special features and 5 dedicated opinion pieces round a general evolution theme.

These may all be accessed via http://rsbl.royalsocietypublishing.org/site/misc/darwin_200.xhtml In summary, the three special features are on: Sexual conflict and sex allocation: evolutionary principles and mechanisms< http://rsbl.royalsocietypublishing.org/site/misc/sexual_conflict.xhtml > Organised by Tracey Chapman Whole organism perspectives on understanding molecular evolution< http://rsbl.royalsocietypublishing.org/site/misc/molecular_evolution.xhtml > Organised by Lindell Bromham Brain Evolution< http://rsbl.royalsocietypublishing.org/site/misc/brainevolution.xhtml > Organised by Tom Smulders The 5 opinion pieces are: Evolution and evolvability: celebrating Darwin 200< http://rsbl.royalsocietypublishing.org/content/5/1/44.full > by John Brookfield Darwin's 'one special difficulty': celebrating Darwin 200< http://rsbl.royalsocietypublishing.org/content/5/2/214.full > by Joan Herbers On the problems of a closed marriage: celebrating Darwin 200< http://rsbl.royalsocietypublishing.org/content/5/3/332.full > by John Pannell Darwin would have loved DNA: celebrating Darwin 200< http://rsbl.royalsocietypublishing.org/content/5/4/503.full > by Lindell Bromham Parasites - the new frontier: celebrating Darwin 200< http://rsbl.royalsocietypublishing.org/content/5/5/625.full > by Paul Schmid-Hempel The five opinion pieces plus the introductions to the special features are all free to access, in addition to some of the other articles for which the authors have chosen to make them open access.

I would be grateful if you could announce this through EvolDir.

With best wishes

Fiona

Fiona Pring Publishing Editor, Biology Letters

The Royal Society 6-9 Carlton House Terrace London, SW1Y 5AG tel +44 (0) 207 451 2654 web http://rsbl.royalsocietypublishing.org *** Whole organism perspectives on understanding molecular evolution - a special feature in Biology Letters, celebrating Darwin 200, available here< http://rsbl.royalsocietypublishing.org/site/misc/molecular_evolution.xhtml > ***

*** Brain evolution - a special feature in Biology Letters, celebrating Darwin 200, available here< http://rsbl.royalsocietypublishing.org/site/misc/brainevolution.xhtml > ***

*** To keep up with all the latest Biology Letters content sign up for alerts here< http://rsbl.royalsocietypublishing.org/cgi/alerts > ***

*** Join the Royal Society Publishing Facebook group here< http://www.facebook.com/group.php?gid=8039614972 > ***

Software Metapop update

Dear Evoldir members,

A new version of Metapop (1.0.1), a software for management and genetic diversity analysis of subdivided populations in conservation programs, is available in the website (http://webs.uvigo.es/anpefi/metapop/). This is a critical update because this version solves a bug present in the previous version (1.0.0). That bug appeared if there were missing alleles and there were also rare alleles only present in the last individuals of the population. In that case, such rare alleles were not always taken in the calculations, given to wrong final results. If you have made some analysis with Metapop 1.0.0 and you had missing alleles, I strongly recommend to repeat analysis with this new version. I apologize for any inconvenience caused by this bug.

There is also available in the website a new highly demanded tool for conversion of genepop files into metapop (G2M). There are two options, a stand-alone installer only for Windows users, and the source python script (multi-platform) that needs a previous installation of python and biopython.

You can address any inquiry about this software to anpefi@uvigo.es

Best regards,

_

Andrés Pérez-Figueroa.

Postdoc at

Dep. Bioquímica, Xenética e Inmunoloxía. Facultade de Bioloxía. Universidade de Vigo. 36310 Vigo. Spain.

web: http://webs.uvigo.es/anpefi e-mail: anpefi@uvigo.es Tfn/fax: (34) 986 813828 Skype: andres.perez.figueroa

andres.perez.figueroa@gmail.com

StAndrews DarwinDay videos

Dear all:

We would like to extend you an invitation to have a look at our Darwin's day celebrations webpage at St Andrews University. Almost all the talks that formed part of this event are available following this link:

http://darwin.st-andrews.ac.uk/ This event from St Andrews brought together some of the greatest minds in the University to celebrate and appropriately honour one of Britain's best known and respected scientists.

We were also honored to have Dr. John van Wyhe, Director of The Complete Work of Charles Darwin Online, as a guest speaker.

We hope you enjoy them,

Best regards,

Valentina Islas

Valentina Islas Sea Mammal Research Unit Scottish Oceans Institute University of St. Andrews St. Andrews, Fife KY16 8LB UK fax: 01334 46 33 66 phone: 01334 46 33 71

www: http://biology.st-and.ac.uk/ The University of St Andrews is a charity registered The University of St Andrews is a charity registered

Student paper award

2009 ORGANIZATION FOR TROPICAL STUDIES (OTS) OUTSTANDING STUDENT PAPER AWARD

The OTS Membership Committee is pleased to announce the first annual OTS Outstanding Student Paper Award. We are inviting nominations for a $500 cash prize for excellence in research via an outstanding publication in tropical biology by a student.

***THE DEADLINE FOR APPLICATIONS IS THURSDAY OCTOBER 15th, 2009. ***

ELIGIBILITY AND NOMINATION: At the time of the nomination deadline, the paper must be published in a peer-reviewed journal and the work completed within the tropics. To be eligible, the author must have been a student (undergraduate or graduate) when the research was completed and must meet one of the following criteria: be an OTS alum, OR have completed the work at an OTS research station (La Selva, Las Cruces, Palo Verde), OR be a student at an OTS member institution (find your institutions here: http://-www.ots.ac.cr/). The nominee must be first author and the paper must be on a topic directly related to their research in tropical biology and published in the 18 mo before the award deadline. Nominations by research advisors or colleagues are welcomed.

SELECTION CRITERIA: Applications will be reviewed by an Awards Committee formed by a subcommittee of the AoD Membership Committee. Papers will be judged based upon the papers contribution to the field including originality, study design and impact.

The nomination packets should include: 1. A copy of the paper 2. A brief letter describing the impact of the paper on the field. 3. A CV from the nominee

SUBMITTING APPLICATIONS: Nomination packets should be sent (by Oct 15th) electronically as pdfs to the chair of the AoD Membership Committee, C L Sagers, (csagers@uark.edu). If you have questions, email Dr. Sagers. Announcement of award recipient will be made at OTS Assembly of Delegates meeting, Feb. 26-28, 2010.

Biological Sciences University of Arkansas Fayetteville, AR 72701 ph: 479.575.7195 fax: 479.575.4010

C L Sagers <csagers@uark.edu>

Teaching simulation programs

Dear all,

For a practical with students that are becoming biology teachers I am looking for an easy-to-use and free computer simulation program for teaching human evolution in schools.

Does anyone know of a program that should run on Windows (or DOS if there are not too many commands involved) and can be used for simple simulations in population genetics?

I would be very interested in a simulation program explicitly on human evolution as well.

I would be very grateful for answeres.

Best wishes Heike Feldhaar

Dr. Heike Feldhaar Behavioural Biology University of Osnabrück Barbarastr. 11 (Room 35/145b) D-49076 Osnabrück Germany

phone: +49 (0)541 969 3805 fax: +49 (0)541 969 2862

e-mail: feldhaar@biologie.uni-osnabrueck.de

"Feldhaar, Heike" <Heike.Feldhaar@Biologie.Uni-Osnabrueck.DE>

Transgenic Drosophila

Subject: Transgenic Drosophila Species

We would like to call your attention to the availability of new transgenic stocks of ten species.

Drosophila melanogaster: 38 stocks Drosophila simulans: 13 stocks Drosophila yakuba: 19 stocks Drosophila erecta: 14 stocks Drosophila sechellia: 1 stock Drosophila pseudoobscura: 15 stocks Drosophila willistoni: 13 stocks Drosophila mojavensis: 2 stocks Drosophila mercatorum: 8 stocks Drosophila virilis: 29 stocks

Please visit the stock center website for details about each stock. https://stockcenter.ucsd.edu/-index.php?table=Transgenic Therese Ann Markow, Professor Amylin Chair in Life Sciences Section of Ecology Behavior and Evolution Division of Biological Sciences Muir Biology Building 2215 9500 Gilman Drive University of California at San Diego La Jolla, CA 92093-0116

Email: tmarkow at ucsd.edu Phone: (858) 246 0095 Laboratory: (858) 246 0402 FAX:(858) 534-7108

http://biology.ucsd.edu/labs/markow/ http:/-/stockcenter.ucsd.edu Therese Markow <tmarkow@ucsd.edu>

Tree reliability answers

Answers to tree reliability test question

Dear all,

Many thanks for all the replies to my question. The comments were really helpful and to the benefit of all I am posting the answers back to Evoldir.

My question was:

I am using a nuclear DNA marker to study the genetic differentiation among populations within an insect species complex. Using the Mega software I obtained an unrooted Neighbor Joining tree inferred from Fst matrix values. However, for pairwise distance input data files the program does not offer an option to assess the reliability of the tree since there is no nucleotide information to perform a bootstrap test. I was wondering if it would be possible to use the bootstrap resampling technique to compute 1000 pairwise distance matrixes. From this point, several trees could then be reconstructed. Next, the topologies of those trees could be comparedto that of the original tree and the bootstrap value for each branch could be computed. Does anybody know if there is a software that can perform the testin this manner?

Here are the answers I received:

Answer 1.

Your proposal to generate bootstrap samples sounds reasonable to me. PHYLIP has a program that generates pseudosamples from sequence data. You then could use other programs from PHYIP or any other program to analyze the samples. Jeff Thorne's statalign program had a module that allowed to generate pseudosamples of distance matrices, when the SE of the pairwise distances could be estimated. But I think MEGA also has the capability to create and analyze

pseudosamples.

Peter

Answer 2..

Bom dia Luiz,

para reiterar os datos, eu usei o PHYLIP (http://-evolution.genetics.washington.edu/phylip.html), mas acho que deve ser com marcadores genéticos não ligados. No Phylip, abre o "Seqboot" para multiplicar os seus datos. Logo, abre o "Gendist" para calcular as matrices de distancias (com a opção M: Multiple data) Depois o "Neighbor" para fazer as arvores, depois o "Consensus" para construir o NJT consensus, e no final o "drawtree" (ou "drawgram") para vê-lo com as valores. Em cada etapa, o Phylip lhe faz um outfile ou um outfile e um outtree. Você tem que usa-los para a etapa seguinte. Melhor é rechama-los em nomequevcquer.txt Tb o programa Treeview (http://taxonomy.zoology.gla.ac.uk/-rod/treeview.html) està bem bonitinho para ver os NJT com bootstrap.

Sorte, Cordialmente, Stéphane.

Answer 3.

I have been trying to do the same - with limited success. You can try PAUP - but again the same problem with bootstraps. The program Populations by Langella - download from http://www.bioinformatics.org/-project/filelist.php?group_id You can enter your data, and ask the programme to calculate Fst for you and then it performs the bootsrap. Problem I've had is that after 100 bootstraps it crashes. If anyone passes a solution that works, could you email me please.

Kind regards Clare Marsden

Answer 4.

Hi Luiz, if you are using genotypic nuclear data (allozymes, microsats, SNPs) and need several distances matrices and trees with bootstrap, I would simply suggets using the software POPULATIONS from Langella, availbale at http://www.bioinformatics.org/project/-?group_id=84 . cheers, Greg

Answer 5.

Luis Guilherme\240Bauzer –

My package PHYLIP can bootstrap gene frequency data, make a distance matrix for each boostrap sample, and compute trees from each sample. The bootstrapping is of whole loci, which means you must have many loci, not just one locus. Of course, you are assuming that the relationships among populations are adequately summarized by a tree, and not much influenced by gene flow after splitting of populations. Otherwise you should investigate using coalescent methods, such as Mary Kuhner's LAMARC package or Peter Beeli's MIGRATE. If both splitting and gene flow are important, Rasmus Nielsen and Jody Hey's package IMa would be needed.

J.F.

Answer 6.

Luiz-

You can do this with with the PHYLIP package from Felsenstein's group. http://-evolution.genetics.washington.edu/phylip.html First you use SeqBoot to create the bootstrap samples, then GenDist, to get your genetic distance matrices (it doesn't make Fst) and then Neighbor to make your trees, and then Consense to get your bootstrap consensus tree and nodal support values. It is a little cumbersome, but not so bad once you learn to use it.

I hope that this helps. Carlos

Answer 7.

You can do this with Phylip (http://-evolution.genetics.washington.edu/phylip.html). You may need

— / —

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

Tree reliability tests

Dear Evoldir members,

I am using a nuclear DNA marker to study the genetic differentiation among populations within an insect species complex. Using the Mega software I obtained an unrooted Neighbor Joining tree inferred from Fst matrix values. However, for pairwise distance input data files the program does not offer an option to assess the reliability of the tree since there is no nucleotide information to perform a bootstrap test. I was wondering if it would be possible to use the bootstrap resampling technique to compute 1000 pairwise distance matrixes. From this point, several trees could then be reconstructed. Next, the topologies of those trees could be comparedto that of the original tree and the boot-

strap value for each branch could be computed. Does anybody know if there is a software that can perform the testin this manner?

Best regards,

Luiz Bauzer

Dr. Luiz GuilhermeBauzer Laboratório de Biologia Molecular de Insetos Instituto Oswaldo Cruz - Rio de Janeiro - Brazil

Tel. +55 21 3865 8111

lbauzer@ioc.fiocruz.br

UGuelph DarwinArtExhibit Oct9-30

Dear EvolDir members,

I am pleased to announce an upcoming event at the University of Guelph in celebration of Darwin Year.

This View of Life: Evolutionary Art for the Year of Darwin

University of Guelph and Ed Video Oct. 9 - 30 Reception Oct. 16, 5:00-7:00pm Science Complex Atrium Admission is free

This View of Life showcases the melding of artistic and scientific disciplines in this year of celebration for Charles Darwin. This group exhibition presents recent work from contemporary Canadian artists and features several collaborative projects created with scientists from the University of Guelph.

The investigation of evolutionary theory is not limited to the lab, field or fossil bed. Darwinian theory, after a century and a half, continues to inspire creativity which perpetuates the evolution of these ideas in their own right. Forms of expression can be compared to instruments of observation, magnifying some aspects of evolution while masking or distorting others. Presented by the University of Guelph and Ed Video, these exhibits offer unique perspectives into the nature and scope of biological novelty, organic variation, and evolving life forms.

The reception will feature artwork, biological specimens, and presentations by project participants. Artwork will also be exhibited at the Ed Video Gallery and at various locations on campus for the duration of the show.

For more information, please visit: University of Guelph – http://arts.uoguelph.ca/-eayd2009/ Ed Video – http://tinyurl.com/qqb5jw We hope to see you at the exhibit!

Cheers,

- Ryan Gregory

Dr. T. Ryan Gregory Assistant Professor Department of Integrative Biology University of Guelph, Guelph, Ontario N1G 2W1 CANADA

http://www.gregorylab.org/ http://-www.evolverzone.com/

Visible Implant Elastomer for reptiles answers

Thanks a lot to those who replied to my request about using VIE in reptiles and to everyone who supports evoldir, you're a great help!

My original post was:

Dear all,

we are planning to use Visible Implant Elastomer for individual marking in several reptile species in Madagascar (Furcifer, Oplurus, Zonosaurus, Tracheloptychus). As this method is mainly used in fisheries, we are wondering if anyone has experience with using VIE in reptiles? Ideally, we would like to test the usability of the marking in reptiles before we order the kits, so it would be great if we can get in contact with someone who is working with VIE in (northern) Germany?!?

I received positive feedback for several species, below are some answers:

I have used VIE on flat lizards (Platysaurus broadleyi) in South Africa,. It worked quite well, it took a lot longer to mark each individual than toe clipping. The study was only short term (1 month), so I don't know how useful it is for long term, but I presume it would still be visible after a longer time. I think it will be more successful on species that have thin and/or transparent skin, like geckos. I injected the flat lizards on the ventral side of their hind legs, just under the skin, because the skin was thinest there.

We have used VIE tags on Anolis sagrei lizards for years. The method works very well. Tags are easy to read and do not appear to cause any trauma to the animals. We inject a small amount of elastomer subcutaneously into the underside of each limb so that

animals have a 4-color identification (e.g., Red-Blue-Green-Yellow). We mark hundreds of lizards each year, and we mark animals as small as 1 g in total mass. A very small percentage of tags are lost (they harden and presumably slip out the injection site), but this is a minor concern. The only potential concern might be if your species have dark or colorful ventral coloration that would make it difficult to read the colors. Our anoles are white and have translucent skin, so it's easy to identify each color.

One reference was also given: Kondo, J, SJ Downes. 2004. Using Visible implant elastomer to individually mark geckos. Herpetofauna 34:19-22.

Best of all, we did actually receive some material from France to test the method ourselves, thanks a lot for this fantastic help!

Best, Wiebke Berg

– Wiebke Berg University of Hamburg, Germany +49 (0) 1734313960 wiebkeberg@web.de

wiebkeberg@googlemail.com

PostDocs

Angers France Xanthomonas MolEvol 71
BigelowLab Maine Phylogenomics 71
BrownU Mitochondrial fitness interactions 71
BrownU PlantTreeOfLife 72
CornellMedCenter GermlineVariants 73
CornellU InvertebrateImmunologyEvolution 73
DukeU GenomeEvol 2 74
DukeU PopulationGenomics 74
Hilo Hawaii EvolutionaryGenetics 74
HullU AncientDNA 75
INRA France ForestEvolution 76
INRA France IntraspecificHybridization 77
Marseille EvolBioinformatics 77
MasseyU DioecyNewZealand 78
MaxPlanckInstOrnith GreatTitFitness 78
Montpellier MalariaEvolution 79
OldDominionU MarineLifeEvolution 79
OregonStateU FungalComparativeGenomics 80
OregonStateU PlantSystematics 80
StanfordU 3 Human Evolutionary Genomics 81
StanfordU EvolutionaryGenomics 82
UAlgarve Portugal PlantPhylogenomics 82
UCaliforniaBerkeley ComparativeGenomics 83
UCaliforniaLosAngeles EvolutionaryMedicine 83
UCaliforniaLosAngles PlantEvolutionaryBiol 84
UCopenhagen Evolution 84
UHelsinki EvolutionaryGenetics 85
UHouston ExperimentalEvolution 85
UManchester MicrobialEvolution 86
UMunich PhylogenomicsNon-Bilateria 86
UMunich TheoEvolutionaryEcol 87
UNacionalAutonomaMexico InsectSystematics 88
UOtago NZ Genomics Reproduction 88
UPenn ComputationalStructureInfluenza 89
UppsalaU mtDNA selection 90
UTennessee ComparativeMethods 90
UTuebingen PlantHybridNecrosis 91
UVictoriaUBritColumbia InsectProtistAssociations 92
UWashington StatisticalGenetics 92
Vienna DrosophilaAging 93
Vienna DrosophilaEvolution 94
WakeForestU HumanAdaptation 94
Yale EvoDevo 94
Yale EvolutionTheory 95
YaleU CompBioBionfMolEvol 95

Angers France Xanthomonas MolEvol

Dear evoldir members

There is a two-years post-doctoral position opened on the molecular evolution of repertoires of type III effectors in Xanthomonas in Angers (France).

The applicant will work in the group of Ecology, Diversity and Taxonomy of Bacterial Phytopathogens (EDTa-BP), in the frame of the Xanthost project (2009-2013). Salary will be around 1900 â¬(*netto*)*amonth*, *plusbenefits*(*Socialsecurity*, *Healthinsurance*).*ThegenusXanthomonascomprisesnumerouspathovars*, *eac* 152; *Hajrietal.*, *PLosOne*, *inpress*).*Theapplicantwilltesthypsequenceanalysisbtheadifferentmodelsofevolutionof TypeIIIEffe*

Contact information: Tristan Boureau, PhD: tristan.boureau@univ-angers.fr StÃ©phane Poussier, PhD : stephane.poussier@agrocampus-ouest.fr Christophe Lemaire, PhD : christophe.lemaire@univ-angers.fr

– Dr. Christophe Lemaire GÃ©nÃ©ticien des Populations MaÃtre de ConfÃ©rences UniversitÃ© d'Angers UMR077 INRA-INH-UniversitÃ© dâAngers Pathologie VÃ©gÃ©tale Centre INRA dâAngers 42, rue Georges Morel 49071 F-Beaucouze France Tel : +33 241 225 727

christophe Lemaire <christophe.lemaire@univ-angers.fr>

BigelowLab Maine Phylogenomics

Position Description

Post-doctoral position in phylogenomics / bioinformatics Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine

A full-time post-doctoral position is available in the lab of Dr. Hwan Su Yoon at Bigelow Laboratory for Ocean Sciences in West Boothbay Harbor, Maine. This position involves participation in an NSF-funded project, "RedToL: Phylogenetic and Genomic Approaches to Reconstructing the Red Algal (Rhodophyta) Tree of Life" to study phylogenetic relationships of red algae using multi-gene dataset, and plastid genomes and transcriptome sequence data. Therefore, a post-doc with a strong background in evolutionary genomics, molecular evolution, bioinformatics, or genome analysis is requested to start in January 2010. Primary duties include plastid DNA isolation, EST library construction, phylogenomics and bioinformatics analysis. Candidate with a Ph.D. degree in evolutionary genomics, computational biology or a relevant field is required. Experience with next generation sequence analysis (454, Illumina, or SOLiD) is desirable. Salary and benefits will be commensurate with experience. Funding is available for three years.

Applicants should send their CV, a letter of intent describing candidate's motivation, qualifications, skills, and experience relevant to this position, and contact information for three references to jobs@bigelow.org. Please reference #PD10-1 in the subject line. For full consideration, the application should be received by September 30th, 2009. Bigelow Laboratory is an Equal Opportunity Employer.

Jane Gardner <jgardner@bigelow.org>

BrownU Mitochondrial fitness interactions

Postdoc: Drosophila mitochondrial fitness interactions at Brown University

A postdoc position is available to work on nuclear-mitochondrial fitness interactions in the laboratory of David Rand at Brown University. The general theme of this NIH funded project is to study the epistatic interactions among nuclear and mitochondrial genotypes that modulate fitness, physiological and biochemical traits in Drosophila. Mitochondrial genotypes from different strains and species of the melanogaster subgroup are placed on various nuclear chromosomal genetic backgrounds to dissect the genetic basis of life history traits. The project involves molecular and quantitative genetic assays of Drosophila strains, genetic mapping experiments, gene expression and biochemical assays of specific genotypes, and inferences from molecular population genetics and evolution.

Applicants must have completed their PhD before starting the position, and have a strong record of accomplishment from their dissertation work. Applicants should have some combination of experience with molecular genetic techniques, Drosophila genetics, quantitative genetics, biochemical assays, molecular evolution, computational analysis, and an interest in evolution or genetics. The appointment is open for up to 3 years, and successful candidates will receive guidance in the preparation of an NIH NRSA Fellowship to pursue related projects.

The position is available now and applications will be reviewed until the position is filled. To apply please

send 1) a CV, 2) a short statement of research interests and experience, including a paragraph on how your previous experience makes you well qualified for this position, and 3) contact information for three references to:

David Rand email: David_Rand@brown.edu

Department of Ecology and Evolutionary Biology Box G-W, 80 Waterman Street Brown University Providence, RI 02912 Voice: (401) 863-2890 (Office) (401) 863-1063 (Lab) Fax: (401) 863-2166 web pages: http://research.brown.edu/-research/profile.php?id=1100924991&r=1 http://-www.brown.edu/Departments/EEB/rand/index.htm The Department of Ecology and Evolutionary Biology at Brown is an interactive group with strengths that span genomics, evolutionary biology, functional morphology, ecology, and environmental science. There are close ties to the Department of Molecular and Cellular Biology, and the Center for Computational Molecular Biology, as well as the Marine Biological Laboratory in Woods Hole

http://www.brown.edu/Departments/EEB/-index.html http://www.brown.edu/Departments/-Molecular_Biology/ http://www.brown.edu/-Research/CCMB/ http://www.mbl.edu http://-jbpc.mbl.edu/ http://ecosystems.mbl.edu/ Information on postdoctoral studies at Brown can be found here: http://biomed.brown.edu/grad-postdoc/ Providence is widely recognized as the Venice of New England and is wonderful place to live.

http://www.providenceri.com/ David M. Rand Professor of Biology Department of Ecology and Evolutionary Biology Box G-W, 80 Waterman Street Brown University Providence, RI 02912 Voice: (401) 863-2890 (Office - Walter Hall 202) (401) 863-1063 (Lab - BioMed Center 516-518) Fax: (401) 863-2166 email: David_Rand@brown.edu web pages: http://www.brown.edu/Departments/EEB/-rand/index.htm http://research.brown.edu/research/-profile.php?id=1100924991&r=1

BrownU PlantTreeOfLife

Postdoctoral Research Position

Large Scale Phylogenetic Data Selection, Data Assembly, and Tree Reconstruction for the Plant Tree of Life

A 2-year postdoctoral position is available for algorithm and parallel program development associated with reconstructing the green plant tree of life. The position is sponsored by the iPlant Collaborative (http:/-/iplantcollaborative.org), which is supporting cyberinfrastructure across the plant sciences.

This position will be shared between the Dunn Lab at Brown University (Casey Dunn, casey_dunn@brown.edu, http://www.brown.edu/-Faculty/Dunn_Lab/) and the Exelixis Lab at the Technical University of Munich, Germany (Alexandros Stamatakis, stamatak@cs.tum.edu, http://-wwwkramer.in.tum.de/exelixis/).

Applicants may chose Providence or Munich as homebase and are expected to spend large periods of time at the respective other affiliated lab.

The specific scientific focus will be on data selection and pre-filtering, data assembly and large-scale tree reconstruction algorithms, including application of high performance computing methods. The successful candidate will also pursue the development and implementation of new summary statistics that capture topological variation in tree sets and distribution of support for topological hypotheses across characters. Work on large-scale tree reconstruction will be supported by a PhD student at Munich.

The candidate can anticipate working in a highly collaborative, multi-institutional context that entails the working groups on data set assembly (Doug Soltis-U Florida; dsoltis@botany.ufl.edu, Pam Soltis-U Florida; psoltis@flmnh.ufl.edu; Michael Donoghue-Yale; michael.donoghue@yale.edu), gene tree reconciliation (Todd Vision-UNC; tjv@bio.unc.edu), character evolution (Brian O'Meara-U Tennessee; bomeara@utk.edu), and tree visualization (Michael Sanderson, University of Arizona; sanderm@email.arizona.edu).

In addition to undertaking basic research in phylogenetic methods, the candidate will be expected to work in collaboration with cyberinfastructure developers in the iPlant software team.

Applicants should ideally hold a PhD in Computer Science or Bioinformatics. Qualifications should include familiarity with algorithms and models for phylogenetic analysis and profound programming experience in C/C++. Knowledge of high performance computing methods, parallel programming languages and computer architectures will be a plus.

Inquiries should be directed to Casey Dunn and Alexandros Stamatakis. The position is available immediately. A full description of the iPToL (iPlant Tree of Life) project can be found online at http://-iptol.iplantcollaborative.org . – Dr. Alexandros Sta-

matakis, Junior Research Group Leader

The Exelixis Lab Bioinformatics Unit (I12) Department of Computer Science Technische Universität München

Tel: +49 162 8541515 (Mobile) +49 89 28919434 (Office) Fax: +49 89 28919414 Skype: stamatak Email: stamatak@cs.tum.edu WWW: http://-wwwkramer.in.tum.de/exelixis/ Room: 01.09.037

stamatak@in.tum.de stamatak@in.tum.de

CornellMedCenter GermlineVariants

Description The laboratory of Dr. Francesca Demichelis (http://icb.med.cornell.edu/faculty/demichelis/-lab/) at the Weill Cornell Medical Center, New York, NY, is recruiting a postdoctoral fellow for ongoing research in genetics and genomics. The research focuses on the identification of germline variants (especially Copy Number Variants) associated with increased risk of developing cancer and on the relation between germline variants and somatic aberrations. Genome-wide data are being generated using latest technology on a large collection of individuals within an international collaboration.

Requirements A candidate should have background in evolutionary biology or genetics and quantitative data analysis skills. A candidate should be enthusiastic, accurate, flexible and able to work in team setting. Expertise in programming, statistical analysis, and computational genetics/genomics is required. Experience of work with large data sets, and familiarity with Linux environment is recommended. Candidates must have a Ph.D. in human genetics, evolutionary biology, mathematics, physics, bioinformatics or related fields.

Contact Information: Interested candidates should send a curriculum vitae and brief summary of research experience to:

Francesca Demichelis, Ph.D. Department of Pathology and Laboratory Medicine Institute for Computational Biomedicine Weill Cornell Medical Center 1305 York Avenue, Room Y-1307, Box 140 New York, NY 10065

frd2004@med.cornell.edu

Francesca Demichelis <frd2004@med.cornell.edu>

CornellU InvertebrateImmunologyEvolution

Postdoc in Invertebrate Immunology and Evolutionary Ecology

A postdoctoral position is available in the Department of Ecology and Evolutionary Biology at Cornell University. This position is funded by a new collaborative award from the National Science Foundation entitled: Influence of Temperature and Acidification on the Dynamics of Coral Co-infection and Resistance. This is a collaborative project between Drew Harvell at Cornell and Laura Mydlarz at University of Texas, Arlington. The objectives of this proposal are to:

1) Identify incidence and co-infection frequency of Aspergillus sydowii and SPX in the field

2) Investigate how co-infection influences sea fan susceptibility, resistance, and within host disease dynamics, testing one hypothesis that seafan immunity has increased through natural selection

3) Examine the effects of temperature increase and acidification on pathogen virulence, on underlying host resistance, and on the dynamics of single and co-infections

Primary responsibilities of the postdoctoral researcher include 1) conducting infection experiments with seafans under different temperature and acidification regimes, 2) analyzing gene expression and immune responses to different infection and climate regimes, 3) contributing to preparation of grant proposals for future work, and 4) writing papers based on results.

To qualify, applicants should have a Ph.D. in invertebrate immunology or physiology, or related biological field, a record of consistent and high-quality publications, and the ability to work independently and collaboratively. Preference will be given to applicants who have an understanding of ecological immunology and gene expression studies and experience with acidification. Starting salary will be competitive and commensurate with previous experience/ expertise; position includes Cornell University Contract College benefits. Funds are available for two years and renewable pending satisfactory progress. The position is available starting DECEMBER 1, 2009 or sooner; starting date is negotiable. Review of applications will begin September 25, 2009 and continue until a suitable candidate is

found.

To apply, please send a cover letter, CV, statement of research interests/experiences, and names and contact information for three references who are familiar with your work.Inquiries and applications (PDF format preferred) should be e-mailed to

Dr. DrewHarvell (cdh5@cornell.edu),

Department of Ecology and Evolutionary Biology,

Cornell University, Ithaca, NY-14853-2701.

"C. Drew Harvell" <cdh5@cornell.edu>

DukeU GenomeEvol 2

This is a modification of an earlier post- now multiple positions are available, and may be either postdoctoral or research technician.

The Noor laboratory at Duke University seeks postdoctoral and technician applicants (multiple positions available!) to study patterns of genome evolution and their relationships to recombination rate. The primary projects are collaborative, NIH-funded research projects (see lab website for details) to examine fine-scale recombination rate in Drosophila species and the nature of their association to nucleotide diversity, divergence, and codon bias. A related effort funded through ARRA expands these analyses to other non-Drosophila Dipteran (fly) species. Efforts will include computational analyses of multiple new full-genome-sequences and fine-scale linkage maps as well as some molecular lab benchwork and fly husbandry. Basic computational skills preferred for postdoctoral applicants, especially if specifically on analyses of DNA sequences.

If interested, please contact Mohamed Noor immediately, as the ARRA funds must be allocated. Please DO NOT send attachments- just send statement of intent, list of publications, and experience in text of e-mail. Replies including attachments will not be considered.

Mohamed A. F. Noor noor@duke.edu Professor & Associate Chair Tel: 919-613-8156 Biology Department Lab: 919-613-8193 Box 90338 FAX: 919-660-7293 Duke University Durham, NC 27708 USA http://www.biology.duke.edu/noorlab/ noor@duke.edu noor@duke.edu

DukeU PopulationGenomics

The Noor laboratory at Duke University seeks postdoctoral applicants to study patterns of genome evolution and their relationships to recombination rate. The primary project is a collaborative, NIH-funded research project to help examine the nature of the association of fine-scale recombination rate and nucleotide diversity, divergence, and codon bias in a Drosophila species. A related effort funded through ARRA expands these analyses to other non-Drosophila Dipteran (fly) species. Efforts will include computational analyses of multiple new full-genome-sequences and fine-scale linkage maps as well as some molecular lab benchwork and fly husbandry. This funding is collaborative with Rich Kliman and Laurence Loewe. Basic computational skills preferred, especially if specifically on analyses of DNA sequences.

If interested, please contact Mohamed Noor (noor@duke.edu) immediately, as the ARRA funds must be allocated. Please DO NOT send attachments-just send statement of intent, list of publications, and experience in text of e-mail. Replies including attachments will not be considered.

Mohamed A. F. Noor noor@duke.edu Professor & Associate Chair Tel: 919-613-8156 Biology Department Lab: 919-613-8193 Box 90338 FAX: 919-660-7293 Duke University Durham, NC 27708 USA http://www.biology.duke.edu/noorlab/ noor@duke.edu noor@duke.edu

Hilo Hawaii EvolutionaryGenetics

POSTDOCTORAL FELLOWSHIP (EVOLUTIONARY GENETICS) - ID# 29409. Tropical Conservation Biology and Environmental Science. Regular, Full-Time, Limited Term (Up to 1 year with possibility of extension), RCUH Non-Civil Service position with the Tropical Conservation Biology and Environmental Science (TCBES) Program, located in Hilo, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds. MINIMUM

MONTHLY SALARY: Commensurate with qualifications. DUTIES: Participate in Moore Foundation-supported research into Deoxyribonucleic Acid (DNA) Barcoding of endemic Hawaiian species to develop and evaluate the suitability of various molecular techniques and bioinformatic analyses to elucidate population-level and species-level genetic variation in several groups of Native Hawaiian insects and plants. Perform population genetic and phylogenetic analyses. Perform DNA- and RNA- based procedures to generate project data. Perform next-generation DNA sequence data and microarray expression analyses. Prepare reports and results suitable for publication. Mentor graduate and undergraduate students in techniques and analyses of DNA extraction, DNA sequencing, RNA/cDNA microarray and next-generation sequencing, and DNA bioinformatic analyses. PRIMARY QUALIFICATIONS: EDUCATION: PhD from an accredited college or university in a relevant field. EXPERIENCE: Experience with two (2) of the following: population, phylogenetic, and genomics analyses. ABIL/KNOW/SKILLS: Knowledge in molecular DNA techniques. Strong quantitative and statistical skills; self-starter and creative problem solver; strong communication and interpersonal skills. SECONDARY QUALIFICATIONS: Extensive experience in next-generation DNA sequencing, microarray expression analysis, genotyping and population genetic analysis, phylogenetic analysis, genomics analysis, or mathematical modeling in population genetic and phylogenetic contexts. INQUIRIES: Elizabeth Stacy (808) 933-3153 (Hawaii). APPLICATION REQUIREMENTS: The preferred method of applying for a job is through our on-line application process. Please go to www.rcuh.com, click on "Employment" and navigate to "Job Announcements/Apply for a Job." However, if you do not have access to the Internet, you may apply by submitting resume; cover letter including Recruitment ID#, referral source, narrative of your qualifications for position and salary history; names, phone numbers and addresses of three supervisory references and copy of degree(s)/transcripts/certificate(s) to qualify for position by fax (808) 956-5022 or mail to Director of Human Resources, Research Corporation of the University of Hawaii, 2530 Dole Street, Sakamaki Hall D-100, Honolulu, HI 96822 before the closing date. If you have questions on the application process and/or need assistance, please call (808)956-3100. CLOSING DATE: October 5, 2009. EEO/AA Employer.

Elizabeth Stacy Assistant Professor Department of Biology TCBES Graduate Program University of Hawai'i at Hilo 200 West Kawili Street Hilo, HI 96720 Phone: 808-933-3153 Fax: 808-974-7693 estacy@hawaii.edu estacy@hawaii.edu

HullU AncientDNA

Postdoctoral Research Associate in ancient DNA

Biological Sciences

Applications are invited for a 3-year postdoctoral position at Hull University, investigating the medieval development of the European commercial fish trade using ancient DNA recovered from archaeological excavations. This exciting collaboration with archaeologists at Cambridge University, funded by the Leverhulme Trust, will utilise molecular genetic markers (SNPs) and zooarchaeological techniques to determine the likely geographical origin of discarded cod bones from medieval middens, thus allowing early trading routes and the birth of commercial fishing to be traced.

Applicants should have a PhD in molecular ecology or a related field, ideally with a minimum of 2-3 years postdoctoral experience in the application of molecular genetic markers, preferably utilising degraded DNA from archaeological, archived, or non-invasive samples. Experience of working with SNPs would be advantageous, although not essential, as would statistical analysis of population structuring. Candidates should be committed to timely publishing in high-impact journals, be capable of collaborative independent research, and enjoy the challenge of an innovative project.

The candidate will join a dynamic group of ecological and evolutionary biologists (see http://-www.hull.ac.uk/evolution/), with diverse interests spanning population genetics, phylogeography, applied conservation, behavioural ecology, and the evolution of functional traits. The Department possesses three well-equipped molecular genetic laboratories, with automated sequencers, a real-time PCR machine, and a liquid handling robot, along with a bioinformatics suite and a dedicated ancient DNA facility.

Salary range £24,877 - £29,704 pa, pro rata.

Informal enquires can be made to Dr Bill Hutchinson, e-mail: w.f.hutchinson@hull.ac.uk

Find out more and download a job description and application form by visiting our website www.hull.ac.uk/-jobs, or phone: (01482) 465557 (quoting vacancy ref: FS149). Alternative formats available on request.

Closing date: 16th October 2009

Dr Bill Hutchinson Molecular Ecology & Evolution, Biological Sciences, Hull University, HULL HU6 7RX United Kingdom

Tel:- <Tel:-> 01482 462 068 office 01482 465 536 lab Fax:- 01482 465 458 http://www.hull.ac.uk/-evolution/ < http://www.hull.ac.uk/evolution/ > http://www.hull.ac.uk/evolution/Facilities/GAS/-index.html http://www.microchecker.hull.ac.uk/ < http://www.microchecker.hull.ac.uk/ >

W.F.Hutchinson@hull.ac.uk
W.F.Hutchinson@hull.ac.uk

INRA France ForestEvolution

Host institution: AGPF Unit - INRA Orléans (FRANCE) Key words: Bayesian statistics, MCMC, marker-assisted BLUP, computer simulation, dominance, breeding metapopulation structure Applications closing date by November 15th, 2009. Application forms will be provided upon request writing at the following addresses: leopoldo.sanchez@orleans.inra.fr, catherine.bastien@orleans.inra.fr

The following postdoctoral project is part of NOVELTREE large-scale integrating project (May 2008-April 2012), which aims at developing improved breeding strategies in the context of forest tree breeding programs. The present postdoctoral project involves two alternative sub-projects. Candidates must have a strong background in at least one of the two sub-projects (see below), in which the successful candidate will focus her/his research efforts, with the possibility to be involved in the other sub-project depending on the capabilities/interest of the candidate.

Objective(s) Two sub-projects are proposed whose respective objectives are: - Implementation of bayesian and MCMC methods for statistical inferences with multivariate phenotypic and genotypic records in genetic evaluation for poplar breeding (denoted hereafter sub-project A). - Optimization of breeding meta-population structures for genetic improvement purposes by using allele-based simulations under non-additive assumptions (denoted hereafter sub-project B). These two objectives are related to each other in the context of a breeding program. While the first objective concerns the preliminary phase of genetic evaluation of candidates to selection by using best suited statistical tools, the second objective concerns the subsequent phase of weighting selection decisions observing other breeding constraints that are aimed at preserving a given diversity structure by using optimization and simulation tools.

Context Concerning the sub-project A, one important breakthrough in computational statistics has been the MCMC (Markov chain Monte Carlo) with a rapid adaptation to the needs of quantitative genetics, particularly in the genetic evaluation in animal breeding. One of the benefits leading this expansion is the huge flexibility of the models that can be implemented under MCMC, especially from a Bayesian perspective, which is in contrast with the strictness of standard methods of statistical analysis based on infinite size inferences. Few are still the examples with MCMC applied to forest tree breeding, despite the fact that some circumstances in these programs appear particularly favorable to the application of these techniques. Often with designed selection experiments involving different sources of phenotypic and genotypic records, an elaborate multivariate structure with a large number of nuisance parameters is needed for fitting. Conversely, there is a certain scarcity of resources available being used in the test. These two circumstances dictate much uncertainty about the parameters to be inferred. Arguably, inference based on asymptotic theory is not expected to be satisfactory under these limiting circumstances. Other complications arise when data available is not the result of random sampling and selection has already modified the genetic composition of the population from which data is to be obtained. An alternative to overcome these difficulties is the Bayesian approach. MCMC is a very important computational tool in Bayesian statistics, as it allows inferences from complex distributions where analytical or numerical integration is not available. Regarding the sub-project B, breeding populations comprise often several interconnected breeding units, each one serving a particular breeding purpose, being the result of a given geographical origin distinct from the other units or being a different species able to interbreed with the other species in the breeding population. This latter case is the one of the poplar breeding program, where several species are intercrossed to benefit from heterotic responses generally for growth traits in the resulting hybrid offspring. Tools based on optimization have been developed to manage selection decisions and mating regimes within a single breeding unit i.e. a unique breeding population. These tools share the principle of maximizing genetic gain obtained from selection while constraining the loss of diversity that might result from that gain. Some of these tools target the genetic contribution of individuals to subsequent generations as decision variables, while others target directly matings between candidates. All of them have been shown

as beneficial in the long-term management of breeding resources over standard unconstrained methods in simulation studies, in a series of lab experiments and in a few advanced animal breeding programs. However, their benefit has not been evaluated in the context of a breeding

— / —

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

INRA France IntraspecificHybridization

Dear all,

We are offering a postdoc position in order to work on links between intraspecific hybridization and biological invasions.

Please do not hesitate to forward this message to potential candidates.

Thank you,

Xavier

xavier fauvergue

Equipe Biologie des Populations en Interaction UMR IBSV 1301 INRA-UNSA-CNRS 400 Route des Chappes - BP 167 06 903 Sophia-Antipolis Cedex France

xavier fauvergue <xavier.fauvergue@sophia.inra.fr>

Marseille EvolBioinformatics

Post-doc position in Evolution and Bioinformatics (Marseille, France)

A 12 months post-doc position is available in our group "*Biologie cellulaire de la motilité bactérienne*", which is part of the Laboratoire de Chimie Bactérienne (CNRS-UP9043) within the *Institut de Microbiologie de la Méditerranée* (*Marseille, France*).

For more details a list of the publications of the team is available at (http://lcb.cnrs-mrs.fr/spip.php?rubrique83 < http://lcb.cnrs-mrs.fr/spip.php?rubrique86 >).

Our group studies basic mechanisms of bacterial motility. Using a combination of genetic and cell biology approaches, we have discovered novel genes that may encode a new motility apparatus in /Myxococcus //xanthus// /(Delta-Proteobacteria). An extensive biological study of this new system, also requires its characterization by /in silico/ approaches. Within this context, the applicant will perform a phylogenomic study of this putative new system and address three main questions:

- What is the taxonomic distribution of the components of this system in bacteria? What are their evolutionary origins and how have they evolved? - Which bacteria also harbor this putative system? - What is the complete set of genes involved in this motility system?

Conclusions from this study will be tested experimentally. This way, we hope to collect data allowing a better characterization of this system and the understanding of its origin and evolution in Bacteria.

The applicant will work in collaboration with the "Genome, Evolution and Bioinformatics" team under the supervision of Céline Brochier (http://lcb.cnrs-mrs.fr/spip.php?rubrique86).

Qualifications and experience that are required:

Applicants should have:

- A PhD in biology or in bioinformatics - A good knowledge of current molecular phylogeny and bioinformatics tools

The position is available for 12 months starting from 01/01/10.

The salary will depend on experience of the applicant and calculated according to standards defined by CNRS, salary includes social security (with medical coverage paid by the employer).

Application:

Please, send a motivation letter describing your experience, a detailed CV including publications, and the names (and addresses) of two referents to Tâm Mignot (*tmignot@ifr88.cnrs-mrs.fr*) and Céline Brochier (*celine.brochier@irf88.cnrs-mrs.fr*)

Do not hesitate to contact us for complementary information.

*Tâm Mignot and Céline Brochier.***

–

Céline Brochier-Armanet

Equipe Génome, Evolution, Bioinformatique Labo-

ratoire de Chimie Bacterienne (CNRS - UPR9043) Institut de Biologie Structurale et de Microbiologie 31 chemin Joseph Aiguier 13402 Marseille Cedex 20 FRANCE

Tél. 33(0)491164508 (LCB) Fax. 33(0)491718914 (LCB)

Université de Provence - Aix-Marseille I Case courrier 36 Centre Saint-Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 FRANCE

Tél. 33(0)491106475 Fax. 33(0)491106353

Web page: http://www.frangun.org Celine Brochier <celine.brochier@ifr88.cnrs-mrs.fr>

MasseyU DioecyNewZealand

Postdoc: Massey.DioecyNewZealand

A two year postdoctoral fellowship is available to investigate the evolution of sexual dimorphism in Plagianthus (Malvaceae), a genus endemic to New Zealand. For this project, we are combining detailed morphological analyses with genomic approaches to investigate dioecy in this recently evolved group. The successful applicant will have experience with conducting detailed morphological analyses (especially scanning electron microscopy) and implementing molecular genetic approaches (PCR, RT-PCR, and gene sequencing). Gene discovery using next-generation sequencing will also be employed for this project; therefore, experience with bioinformatics is also desirable. The candidate should hold a Ph.D. in botany, genetics, or evolutionary biology. We seek an individual who is enthusiastic, highly motivated, and willing to work independently as well as with a team.

This project is a collaboration between Jennifer Tate (http://imbs.massey.ac.nz/massey/depart/sciences/-institutes/imbs/staff/tate_jennifer.cfm) at Massey University in Palmerston North, New Zealand and Barbara Ambrose (http://www.nybg.org/science/-scientist_profile.php?id_scientist=104) at The New York Botanical Garden. The candidate will be based in the Tate lab. Palmerston North is a small and friendly university town, which is located 2 hours from Wellington, the winery region of Hawke's Bay, and the volcanic plateau. The position will be based within the Institute of Molecular BioSciences, which hosts the Manawatu Microscopy and Imaging Centre (http://sitemap.massey.ac.nz/massey/-depart/sciences/centre/mmic/mmic_home.cfm). The postdoctoral fellow will also have the opportunity to interact with researchers in the Allan Wilson Centre for Molecular Ecology and Evolution (http://-www.allanwilsoncentre.ac.nz/).

The closing date for applications is 20 November 2009. Starting date is flexible, but must be no later than 1 August 2010. For more information about this position, please contact Jennifer Tate (j.tate@massey.ac.nz). To apply for this position, please visit http://jobs.massey.ac.nz (reference A390-09B).

Jennifer A. Tate, Ph.D. Lecturer in Plant Systematics and Evolution Massey University Institute of Molecular Biosciences Private Bag 11222 Palmerston North New Zealand

Phone: 64-6-350-5515 ext. 7518 FAX: 64-6-350-5688

http://imbs.massey.ac.nz/massey/depart/sciences/-institutes/imbs/staff/tate_jennifer.cfm Plant Biology at Massey: http://plantbiology.massey.ac.nz/-index.html j.tate@massey.ac.nz

"Jennifer A. Tate" <j.tate@massey.ac.nz>

MaxPlanckInstOrnith GreatTitFitness

The Max Planck Institute for Ornithology in Radolfzell (at the Bodensee, Germany) is an international Institute aimed at experimental and theoretical basic science, primarily in the areas of Immuno-Ecology and Avian Migration. In a Joint Project of the Max Planck Institute for Ornithology, Department of Migration and Immuno-ecology in Dr. Michaela Hau's group, and at the Netherlands Institute of Ecology, Department of Animal Ecology in Dr. Kees van Oers' group, there is a

Postdoctoral position available.

The postdoc will be the core member of a collaborative study on the hormonal correlates of personality types and their fitness consequences in great tits. Research related to the genetic basis of these correlates is a possibility. The work will be conducted at both institutes, where field sites, long-term data, aviary and laboratory facilities are available. A background in field endocrinology and an interest in bird behavior is desirable. The position will ideally begin January 1st, 2010

and is available for 2 years. The scientific language at both institutes is English.

The Max Planck Institute is an equal opportunity employer. Women and members of minority groups are strongly encouraged to apply. In addition, qualifications being equal, precedence will be given to candidates with disabilities. Complete applications should be submitted by October 30, 2009 to Dr. Michaela Hau at the address below (email applications preferred), and should include your CV, a 1-page research statement, and contact details of three references. For further details, please contact either Michaela Hau or Kees van Oers at the addresses below.

Dr. Michaela Hau Max Planck Institute for Ornithology Department of Migration and Immuno-ecology Schlossallee 1a D-78315 Radolfzell, Germany Phone: ++49-(0)7732-150113 Email: mhau@orn.mpg.de Web: http://orn.mpg.de/mitarbeiter/hau.html Dr. Kees van Oers Netherlands Institute of Ecology Department of Animal Ecology Boterhoeksestraat 48 6671 ZB Heteren, The Netherlands Phone: ++31-(0)26-4791254 Email: k.vanoers@nioo.knaw.nl Web:http://www.nioo.knaw.nl/users/kvanoers K.vanOers@nioo.knaw.nl K.vanOers@nioo.knaw.nl

Montpellier MalariaEvolution

POSTDOCTORAL POSITION ON MALARIA TRANSMISSION - Montpellier - France

DESCRIPTION: a 2 year postdoctoral position on the evolution and the manipulation of avian malaria transmission is available in the lab of Sylvain Gandon, at the CEFE (CNRS) in Montpellier. The research will involve investigating experimentally the different adaptations of malaria to increase host to vector and vector to host transmission. In particular, we aim to explore the ability of Plasmodium to manipulate the behavioural traits of its mosquito vector at different stages of the malaria life cycle. The work will be done in collaboration with Ana Rivero (GEMI, CNRS, Montpellier). For further information concerning the project, contact Sylvain Gandon (sylvain.gandon@cefe.cnrs.fr).

QUALIFICATIONS: Strong background in evolutionary ecology, and more specifically in the field of host-parasite interactions. Previous experience working with mosquitoes and/or malaria would be valuable. Skills in English speaking and writing necessary (knowledge of the French language is not essential).

FUNDING: ERC Starting Grant "Evolutionary Epidemiology of Infectious Diseases" to Sylvain Gandon

STARTING DATE: January 2010

MONTHLY SALARY: around 2200 euros.

APPLICATIONS: To be sent to Sylvain Gandon (sylvain.gandon@cefe.cnrs.fr) before October 31th 2009. These should comprise: a CV, a cover letter stating your research accomplishments, interests and specific skills and competence for the particular postdoctoral position, and the names and email addresses of two potential referees.

Sylvain GANDON CEFE - UMR 5175 1919 route de Mende F-34293 Montpellier cedex 5

Tel : 33 4 67 61 34 23 Fax: 33 4 67 41 21 38 email: sylvain.gandon@cefe.cnrs.fr www: http://-www.cefe.cnrs.fr/ecogev/siteGB/ppGB/sylvain.htm – passerelle antivirus du campus CNRS de Montpellier –

Sylvain GANDON <Sylvain.GANDON@cefe.cnrs.fr>

OldDominionU MarineLifeEvolution

POST-DOCTORAL Position in Marine Molecular Ecology

The Department of Biological Sciences at Old Dominion University, a "Doctoral Research - Extensive" state university, has an opening for a Post-Doctoral Research Associate position in marine molecular ecology and evolution. The appointment is for one year (renewable up to 3 years maximum) beginning January 2010. This position involves participation in an NSF-funded project to examine the population genetic and phylogeographic patterns of marine species in the Indo-Malay-Philippine archipelago and offers an excellent opportunity to develop a long-term research program in the world's most diverse marine environments. The successful candidate will be expected to live full time in Indonesia and potentially the Philippines and Malaysia planning and carrying out field sampling trips, and supervising the operations of a molecular laboratory. In addition, the successful candidate will be expected to teach a course in molecular ecology, supervise and mentor both American and foreign graduate and undergraduate students in the laboratory and field, maintain the project website, and take a prominent role in administering the project. All analyses, and research authorship, will be

in collaboration with host country scientists, so the successful candidate will have a major role in developing collaborative projects with foreign scientists and students as well as obtaining all necessary research permits from foreign governments. While there are significant teaching and administrative responsibilities, the patient and flexible candidate will find good opportunities to develop related independent research activities. Applicants must have a PhD and be US citizens at the time of employment. Please submit a curriculum vitae, statement of interest, and the names, telephone numbers, and addresses (postal and email) of three references to: Kent E. Carpenter, Department of Biological Sciences, Old Dominion University, Norfolk, VA 23529-0266 USA; or to kcarpent@odu.edu (electronic submission of materials is preferred). Review of applications will begin on December 1, 2009 and will continue until a suitable candidate is found. Women and minorities are encouraged to apply. Old Dominion University is an Affirmative Action/Equal Opportunity Employer and requires compliance with the Immigration Reform and Control Act of 1986

Kent E. Carpenter Professor Department of Biological Sciences Old Dominion University Norfolk, Virginia 23529-0266 USA IUCN/CI Global Marine Species Assessment Director: www.sci.odu.edu/gmsa/< http://www.sci.odu.edu/gmsa/ > Coral Triangle PIRE project: www.sci.odu.edu/impa/ctpire.html< http://www.sci.odu.edu/impa/ctpire.html > Office Phone: (757) 683-4197; Laboratory phone (757) 683-3481 Fax: (757) 683-5283 Email: kcarpent@odu.edu<mailto:kcarpent@odu.edu> http://sci.odu.edu/biology/directory/kent.shtml "Carpenter, Kent E." <kcarpent@odu.edu>

OregonStateU FungalComparativeGenomics

Postdoctoral Position in the Department of Botany and Plant Pathology, Fungal Biology Laboratory, Oregon State University

A postdoctoral position in fungal genomics is open in the laboratory of Dr. Joseph Spatafora. The position involves the sequencing of the genome of filamentous ascomycete Tolypocladium inflatum. Research will involve next generation sequencing including 454-LifeSciences and Illumina platforms, genome assembly and annotation, and comparative genomic analyses of related fungi. The applicant will work collaboratively with a team of researchers and graduate students and be responsible for aspects of project coordination, writing reports and contributing to the development of research directions. Duties will encompass culturing of fungi, DNA and RNA extractions, sample preparation for next generation sequencing, and annotation of genomic sequence data. The applicant is required to have a Ph.D. in biological or computer sciences with expertise in genomic biology or related field. Experience with Linux operating system and programming in Perl, Java, C++ and HTML editing is highly desirable. This position is also expected to assume an active role in the maintenance of the lab and the supervision of an undergraduate student researcher.

Salary will be commensurate with experience and the position will be renewed annually depending on funding. To apply for this position, candidates should send a resume including description of past research, future professional interests and the names and contact information for three references to Joseph Spatafora at spatafoj@science.oregonstate.edu . Questions concerning this position can also be directed to spatafoj@science.oregonstate.edu .

Closing date October 1, 2009 or until the position is filled.

Joey Spatafora, Professor 2082 Cordley Hall Dept. Botany and Plant Pathology Oregon State University Corvallis, OR 97331 Tel: 541-737-5304 Fax: 541-737-3573 Email: spatafoj@science.oregonstate.edu

Joey Spatafora <spatafoj@science.oregonstate.edu>

OregonStateU PlantSystematics

Postdoctoral Position in Plant Systematics / Genomics, Department of Botany and Plant Pathology, Oregon State University

A postdoctoral position to apply genomic approaches to plant systematics is open in the laboratories of Dr. Aaron Liston and Dr. Richard Cronn at Oregon State University. This is an NSF-funded collaborative project with Dr. Mark Fishbein at Oklahoma State University. The position involves the sequencing of the genome of Asclepias syriaca (milkweed) and chloroplast genomes from ca. 150 species of Asclepias and relatives. Research will involve next generation sequencing using the Illumina platform, genome assembly and annotation,

and phylogenetic analysis. The applicant will work collaboratively with researchers and graduate students and be responsible for aspects of project coordination, supervision of 1-2 undergraduates, writing manuscripts and contributing to the development of research directions. Duties will encompass sample preparation for Illumina sequencing, assembly and annotation of genomic sequence data, and phylogenetic analysis. The applicant is required to have a Ph.D. in biological sciences with expertise in plant systematics. Experience with the Linux operating system and computer programming is highly desirable.

Salary will be commensurate with experience and the position will be renewed annually for up to 3 years. To apply for this position, candidates should send a resume including description of past research, copies of publications, future professional interests, and the names and contact information for three references to Aaron Liston at listona@science.oregonstate.edu.

Closing date: November 1, 2009 or until the position is filled. Position available: December 1, 2009.

Aaron Liston Department of Botany & Plant Pathology Oregon State University Corvallis, Oregon 97331-2902 USA http://www.orst.edu/dept/botany/herbarium

listona@science.oregonstate.edu listona@science.oregonstate.edu

StanfordU 3 Human Evolutionary Genomics

Stanford University: Human Population Genetics, Domestication Genomics, and Statistical Genomics (multiple positions)

Several post-doctoral positions are available in the laboratory of Carlos D. Bustamante. The lab focuses on developing and deploying novel statistical and computational methods for analyzing genome-wide patterns of variation within and among species to address fundamental questions in evolutionary and human genomics. We are moving to the Genetics Department at the Stanford University School of Medicine in January 2010, and several positions are available including:

1) Statistical population genetics. The successful applicant(s) for this position will work on developing novel approaches for population genetic inference from whole genome sequence data including methods for demographic inference and for detecting signatures of selection in the human genome. Strong programming skills in C/C++, excellent knowledge of probability theory and stochastic processes, and good familiarity with theoretical/computational statistics is required. The ideal candidate would have a Ph.D. with emphasis on theoretical population genetics, human genomics, statistical genetics/genomics, or computational statistics. S/he will work on both publicly available data (e.g., 1000 Genomes) as well as on genomes to be sequenced through other collaborative efforts. There is also ample opportunity for collaboration with the labs of Andy Clark (Cornell), Rasmus Nielsen (Berkeley), Alon Keinan (Cornell), and John Novembre (UCLA) as part of these NIH funded positions.

2) Human population genetics of the Americas. A major thrust of the lab in the coming years will be characterizing patterns of human genetic variation in North, Central, and South America as well as the Caribbean in indigenous American and admixed Hispanic/Latino and African-American populations. Post-doctoral positions are available for scientists interested in both dry and wet lab research. The ideal candidate will have a Ph.D. in human genetics/genomics, anthropological genetics, and/or medical genetics. The applicants will have opportunities for collaborative field and lab research including projects with Andres Ruiz-Linares (UCL), Esteban Burchard (UCSF), Sarah Tishkoff (U. Penn), and Harry Ostrer (NYU)

3) Domestication Genomics of rice. Post-doctoral positions are available to work on domestication genomics of Oryza sativa (Domesticated Asian rice) and its wild relatives. These include joining a collaborative NSF funded project with Micheal Purugganan (NYU) and Barbara Schall (Wash U.) to fine map signatures of selection around domestication QTLs. There is also an opportunity to join a project with Susan McCouch (Cornell), Georgia Eizenga (USDA), and Anna McClung (USDA) to identify genes underlying 26 agronomically important traits in rice using high density genotyping arrays being developed by the project. The successful applicants will have a Ph.D. in quantitative genetics / genomics, strong programming and statistical genomics skills, and possess inter personal skills necessary to work as part of large collaborative networks.

4) Population and quantitative genomics of dog domestication. A post- doctoral position is available to work with me, Adam Boyko (Cornell/ Stanford), Bob Wayne (UCLA), John Novembre (UCLA), and Elaine Ostrander (NHGRI) on population genetics and domestication genomics of dogs. For several years, our collaborative groups has worked to sample, genotype, (and soon sequence) thousands of breed-affiliated dogs, village dogs,

and wolves from throughout the world. The successful applicant will work closely with our collaborative group to analyze these data and identify geographic signatures of dog domestication and genomic regions potentially containing QTLs for breed defining and domestication traits.

To apply for these positions please send an email with a single collated PDF to Carlos D. Bustamante (cdb28 [at] cornell.edu) including (1) a C.V., (2) statement of research interest (stating which position(s) you are interested in), (3) names and emails for three references, and (4) reprints for 1-2 papers. Note: Any application not submitted as a PDF will be discarded.

The ideal start date for these positions is early Spring 2010, but there is some flexibility .

Carlos D. Bustamante, Professor Biological Statistics and Computational Biology Cornell University http://-bustamantelab.cb.bscb.cornell.edu/ After 1/1/10: Department of Genetics Stanford University School of Medicine

"Carlos D. Bustamante" <cdb28@cornell.edu>

StanfordU EvolutionaryGenomics

Stanford University, Evolutionary genomics

A postdoctoral position is available in the lab of Hunter Fraser. The lab will combine experimental and computational approaches to studying the evolution of gene expression within and between species. Our long-term goals are to better understand 1) how new mutations affect gene expression; 2) what selective pressures act on these mutations; and 3) how changes in gene expression contribute to the evolution of other phenotypes. The project details are flexible, but ideally will focus on producing and/or analyzing genome-wide gene expression (RNA-seq) and transcription factor binding (ChIP-seq) data from multiple species. Preference will be given to candidates with both experimental and computational experience. Familiarity with the yeast Saccharomyces cerevisiae, high-throughput sequencing (Solexa), chromatin immunoprecipitation, or quantitative/statistical genetics is a plus.

Stanford is an extremely stimulating environment, with many labs engaged in research on evolution and genomics. There is plenty of opportunity to interact with other labs, for example in the monthly evolutionary genomics joint lab meeting that includes labs from several departments. To apply, please email a CV, brief description of research experience and interests, and contact information for at least two references to hbfraser[at]stanford.edu. The position can begin immediately. The term will be for two years, with the possibility of a 1-2 year renewal. Salary and benefits are very competitive. For further information please see the labâs website, http://www.stanford.edu/ Ë hbfraser/ .

Hunter Fraser Assistant Professor Department of Biology Stanford University Stanford, CA

hbfraser[at]stanford.edu

UAlgarve Portugal PlantPhylogenomics

Postdoc: Plastid origins and plant phylogenomics - CCMAR, University of the Algarve, Portugal

POSTDOCTORAL POSITION

Applications are invited for a postdoctoral researcher position at the Centro de Ciencias do Mar (CCMAR), University of the Algarve (CCMAR - http://-/www.ccmar.ualg.pt/) in the research group of Cymon J. Cox (Plant systematics and bioinformatics). The successful applicant will participate in the project titled "The origin and early diversification of plants: a phylogenomic approach employing novel composition-heterogeneous methods" funded by the Portuguese Foundation for Science and Technology (FCT). The project will be conducted in collaboration with T.M. Embley (Newcastle University, UK) and P.G. Foster (Natural History Museum, London, UK).

Background Plant chloroplasts are derived from an ancient endosymbiotic capture of a cyanobacterium by a heterotrophic eukaryotic ancestor, an event which led to the diversification of three primary plant lineages, namely, the glaucocystophytes, red algae, and green plants, and the eventual emergence of terrestrial ecosystems. The endosymbiosis marked a crucial episode in cell and Earth history, yet our understanding of the phylogenetic context surrounding this momentous event remains obscure in part due to the technical limitations of current phylogenetic methodology in relation to the reconstruction of deep evolutionary divergences.

The project will be conducted entirely in silico and implement novel non-stationary composition models in a phylogenomic context. Ideally, the successful candidate

will have a strong background in phylogenetic analyses, Unix/Linux computing, and bioinformatics (biopython/bioperl, cluster management, relational databasing, etc). An extensive publication record will also be advantageous. The position is available for 3 years (after an intial 1 year probation) from January 2010 and is open to all nationalities. The researcher will receive a salary of 1495 euros/month.

Applications should be submitted before 15th October 2009 to Cymon J. Cox (cymon@ualg.pt). Applicants should send a covering letter detailing their research interests, a current C.V., and the email addresses for 3 professional referees. Informal inquires are welcome to the same address.

CCMAR is located on the Gambelas campus, 4km from Faro, the capital city of the Algarve and close to Faro International Airport (FAO). (http://www.ualg.pt/-index.php?option=com_google_maps&Itemid=-2311&lang=en)

FCT announcement (in Portuguese): http://-www.eracareers.pt/opportunities/index.aspx?task=-global&jobId=15465 cymon.cox@googlemail.com

UCaliforniaBerkeley ComparativeGenomics

Postdoctoral Scholar Position in evolutionary comparative genomics of fungi available at the University of California, Berkeley in the laboratory of John W. Taylor Our first comparative genomics research has just been published on- line at Genome Research as an open-access pdf. Comparative genomic analyses of the human fungal pathogens Coccidioides and their relatives. 2009. Thomas J. Sharpton, Jason E. Stajich, Steven D. Rounsley, Malcolm J. Gardner, Jennifer R. Wortman, Vinita S. Jordar, Rama Maiti, Chinnappa D. Kodira, Daniel E. Neafsey, Qiandong Zeng, Chiung-Yu Hung, Cody McMahan, Anna Muszewska, Marcin Grynberg, M. Alejandra Mandel, Ellen M. Kellner, Bridget M. Barker, John N. Galgiani, Marc J. Orbach, Theo N. Kirkland, Garry T. Cole, Matthew R. Henn, Bruce W. Birren, and John W. Taylor. Genome Research. doi: 10.1101/gr.087551.108 http://genome.cshlp.org/content/early/2009/08/-28/gr.087551.108.full.pdf+html We have a postdoc position open for our current work, which is focused on populations within sibling species and next-gen sequencing. Our research is supported by NIH and funding for at least two years is in place. For details, interested applicants with experience in computational biology or evolutionary biology or both should contact John Taylor at jtaylor@berkeley.edu .

John Taylor Department of Plant and Microbial Biology 111 Koshland Hall Berkeley, CA 94720 jtaylor@berkeley.edu

For other publications from the lab, please see: http://-pmb.berkeley.edu/~taylor/ jtaylor@berkeley.edu jtaylor@berkeley.edu

UCaliforniaLosAngeles EvolutionaryMedicine

A postdoctoral fellow position is available (flexible start-date) in Dr. Marc Suchard's research group across the Departments of Biomathematics, Biostatistics and Human Genetics, University of California, Los Angeles. We develop novel techniques in Bayesian statistics and applied probability to address questions in phylogenetic reconstruction and evolutionary medicine. Projects include simultaneous inference of alignment and phylogeny, phylogeography of viral epidemics and many-core (GPU) algorithm development for computational statistics.

We are looking for a candidate with a recent PhD who has training in statistics, applied mathematics or computational biology. Experience in biomedical data or molecular sequence analysis is desirable.

For consideration, please email a CV, bibliography, brief description of your experience and names of two potential references to: msuchard@ucla.edu

Marc A. Suchard, M.D., Ph.D. Associate Professor Departments of Biomathematics and Human Genetics David Geffen School of Medicine at UCLA, and Department of Biostatistics UCLA School of Public Health 695 Charles E. Young Dr., South 6558 Gonda Los Angeles, CA 90025

msuchard@gmail.com

UCaliforniaLosAngles PlantEvolutionaryBiol

RESEARCH SCIENTIST / SENIOR POST-DOC POSITION

in Plant Evolutionary Biology/Molecular Ecology

Department of Ecology and Evolutionary Biology, UCLA

A RESEARCH SCIENTIST position is available in the lab of Victoria Sork. This is an open-ended position with competitive salary geared toward exceptional researchers in the field of molecular ecology. The successful candidate will oversee on-going projects on phylogeography and environmental genomics of oaks; coevolution of fungal-algae in the lichen, Ramalina menziesii; and molecular ecology of pollen and seed dispersal. There are also opportunities to develop related lines of research.

Primary responsibilities are to conduct laboratory analyses and publish manuscripts. Related duties include data management, statistical analyses, grant preparation. The successful candidate will also oversee day-to-day management of the laboratory and mentor undergraduate and graduate students working in the lab. The lab is an intellectually dynamic environment consisting of students, postdocs and visiting researchers working on a diverse range of systems, and we have weekly meetings and regular retreats. UCLA offers an exciting environment for evolutionary biologists, ecologists, and computational biologists through its myriad seminars, colloquia, and informal activities within the department and across campus.

Requirements for the position include: a PhD in biology; experience with DNA sequencing and microsatellite markers; statistical skills in population genetics and genomics; experience with National Science Foundation proposal preparation, and good project management skills.

Please apply by ending your c.v., cover letter, contact information for references, and a statement of research interests and experience to Sork Research Position, c/o Ms. Bobbi Fenske, by email at rfenske@lifesci.ucla.edu , or by mail at LSSA Personnel Manager, 621 Charles E. Young Drive, Box 951606, Los Angeles, CA 90095-1606. Screening of applications will begin September 25, 2009, and will continue until filled. The position could start during Fall 2009, but the start date is flexible. The initial appointment is for one year, with renewal based on performance. Salary is commensurate with years of post-doctoral experience and education and in accordance with University policy, starting around $55,000-$60,000 for a candidate with several years of post-doctoral experience. For more information, please contact Victoria Sork (vlsork@ucla.edu).

UCLA is an Equal Opportunity/Affirmative Action Employer.

Victoria Sork <vlsork@ucla.edu>

UCopenhagen Evolution

Postdoctoral positions and PhD studentships in Macroecology, Biogeography, Evolution, Population Biology, Oceanographic Processes, Climate, Conservation Biology, and Environmental Economics

at

the Center of Macroecology, Evolution and Climate Danish National Research Foundation University of Copenhagen and Technical University of Denmark

are available to work within an integrated terrestrial and marine research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth.

Candidates should have a strong publication record, relevant analytical and data handling skills, and an ability to communicate within a research team. Competitive salaries are offered.

Themes where we seek postdoctoral and/or PhD applications

THEME 1 - MACROECOLOGIST/BIOGEOGRAPHER. Postdoc applications. THEME 2 - SPECIES DISTRIBUTION MODELER. Postdoc applications and PhD stipends. THEME 3 - PHYSICAL OR PALEO OCEANOGRAPHER . Postdoc applications. THEME 4 - PLANKTON ECOLOGIST/BIOLOGICAL OCEANOGRAPHER. PhD stipends. THEME 5 - CLIMATE CHANGE BIOLOGIST. Postdoc applications. THEME 6 - FISHERIES ECOLOGIST/FISHERIES OCEANOGRAPHER . Postdoc applications and PhD stipends. THEME 7 - FISHERIES/BIOLOGICAL OCEANOGRAPHER. Postdoc applications and PhD stipends. THEME 8 - EVOLUTIONARY BIOLOGIST. Postdoc applications. THEME 9 - HISTORICAL BIOGEOGRAPHER. Postdoc applications. THEME 10 - BIOSTATISTICIAN/STATISTICAL BIOLOGIST. Postdoc applications. THEME 11 - MIGRATION BIOLOGIST / ORNITHOLOGY. PhD stipends THEME 12 - MACROECOLOGY OF VECTOR-BORN DISEASES . Postdoc applications. THEME 13 - ENVIRONMENTAL ECONOMIST). PhD

stipends. THEME 14 - CONSERVATION ECOLOGIST/COMPUTATIONAL BIOLOGIST. Postdoc applications. THEME 15 - NATURE RESERVE SCIENTIST. Postdoc applications. THEME 16 - CONSERVATION SCIENTIST. PhD stipends.

Fuller descriptions of individual positions within 16 themes are at www.bio.ku.dk/om/jobs. Application must be based on the full description of the positions, and submitted before 31 of October 2009. For enquiries about the program, contact Professor Carsten Rahbek, crahbek@bio.ku.dk.

Bjørn Hermansen <BHermansen@bio.ku.dk>

UHelsinki EvolutionaryGenetics

Postdoctoral Researcher, Evolutionary Genetics, University of Helsinki

A two-year Postdoctoral Researcher position is available in the Ecological Genetics Research Unit (Head: Prof Juha Merila) in the Department of Biological and Environmental Sciences at the University of Helsinki, Finland. The position involves study the ecological and evolutionary genetics & genomics of fishes (three - and nine-spined sticklebacks, herring). The exact focus of the research is negotiable - several different lines of research are possible depending on the candidates background, skills and personal interests. This position offers an opportunity to get on a fast lane to a scientific career - materials and most of the tools for conducting the research are already available.

Qualifications: The successful candidate will have a Ph.D in biology or a related field with a strong background in genetics. Good skills in molecular biology, genomics and/or population genetics - including analytical/bioinformatic aspects of such a work - are required. Persons with interest on quantitative genetics and genemapping are particularly well placed. The candidate is expected to be able to express him/herself fluently in English (written and spoken), be able to work both independently and as a member of a team, both nationally and internationally, and contribute to the supervision of PhD and MSc- theses. Excellent writing skills are essential.

Salary: The salary will be based on level 5 (about 2523,02 euros/ month) of the demands level chart for teaching and research personnel in the salary system of Finnish universities. In addition, the appointees will be paid a salary component based on personal work performance.

Starting date: The work can start immediately but the starting date is negotiable.

About the research environment: The Ecological Genetics Research Unit (EGRU) is placed on the Viikki campus of the University of Helsinki (http://-www.helsinki.fi/bio/faculty/) .The EGRU members work with population, evolutionary, and ecological genetics and genomics problems. Most of the work is addressing directly or indirectly broad, general evolutionary or conservation problems. Fish - nine-spined and three-spined sticklebacksin particular - constitute the main models, but also birds and amphibians are frequently used models in the groups research. More information of the research and our interests can be found at http://www.helsinki.fi/biosci/egru/ To apply, please send a letter describing your interests and qualifications, a CV (including publication list), and contact information for three references (who have agreed to provide a letter of reference) to: Prof. Juha Merilä (juha.merila@helsinki.fi). Dead- line for applications is 30.9.2009.

Juha Merilä Ecological Genetics Research Unit Department of Biological and Environmental Sciences PO Box 65 (Biocenter 3, Viikinkaari 1) FIN-00014 University of Helsinki Finland

E-mail: juha.merila@helsinki.fi http://-www.helsinki.fi/ ˜ merila http://www.helsinki.fi/-ml/ekol/egru Gsm: +358-40-8374165 Fax: +358-9-19157694

Juha Merilä <juha.merila@helsinki.fi>

UHouston ExperimentalEvolution

Post-doctoral positions in experimental evolution:

Applications are invited for two postdoctoral positions in the Biology and Biochemistry Department at the University of Houston.

The first position is in the lab of Tim Cooper. The successful applicant will examine the basis of environmental and genetic interactions that influence the contribution of potentially adaptive mutations to fitness when introduced into a collection of natural isolates of Escherichia coli. This work will involve a combination of molecular genetic and genomic techniques. (Funded

by the National Science Foundation.)

Applicants must have a Ph.D. in Biology or a related discipline and should have experience in molecular and/or evolutionary genetics. Microbiology experience would be an advantage. The initial term of the position will be for a period of two years with the possibility of a one year extension. Applications should be emailed to Tim Cooper (tfcooper@uh.edu). They will be reviewed from October 15 2009 until the position is filled. Applications should include a cover letter, CV and the names and addresses of three referees.

The second position is for a collaborative project between Tim Cooper and Ricardo Azevedo. The successful applicant will examine the underlying basis and evolutionary implications of epistatic interactions between a series of adaptive mutations identified in an experimentally evolved population of Escherichia coli. The work will involve a combination of experimental and theoretical approaches determined by the expertise of the successful applicant. The project involves work with theoretical, computational and mathematical biologists, and will provide opportunities for further collaboration. (Funded by the McDonnell foundation.)

Applicants must have a Ph.D. in Biology or a related discipline and should have experience in molecular genetics or evolutionary theory. The initial term of the position will be for a period of two years with the possibility of a one year extension. Applications should be emailed to Tim Cooper (tfcooper@uh.edu). They will be reviewed from October 15 2009 until the position is filled. Applications should include a cover letter, CV and the names and addresses of three referees.

The University of Houston is situated in Houston, Texas. It is a major metropolitan university with particular strengths in Biology and Mathematics. In addition Houston is the home of the Texas Medical Center, a collection of over 40 institutions, and several formal and informal opportunities exist for collaboration with members. In addition, Houston is a great place to live - a very green city with many good bars and restaurants.

tim.f.cooper@gmail.com

UManchester MicrobialEvolution

Postdoctoral Research Associate, Microbial Evolution

Faculty of Life Sciences, University of Manchester, UK

A 20 month postdoctoral position is available in the lab of Dr. Daniel Rozen at the University of Manchester. This BBSRC funded project will study the evolution of natural transformation and competence in Streptococcus pneumoniae. The project aims to quantify the evolutionary costs and benefits of competence using complementary methods in order to determine how and why transformation evolved and is maintained in this species.

The successful applicant will be responsible for designing and carrying out experiments using bacteria in continuous culture, analyzing experimental results, preparing manuscripts, and helping with the supervision of students. Candidates should hold a PhD in a relevant biological discipline and have a background/strong interest in evolutionary biology. Experience in microbial genetics is desirable.

Applications will be reviewed as they arrive, and will continue until the position is filled.

Informal enquiries can be addressed to: Daniel Rozen, Tel: +44 (0) 161 275 5094, Email: Daniel.rozen@manchester.ac.uk

Application forms and further particulars can be obtained at http://www.man.ac.uk/news/vacancies Daniel Rozen Faculty of Life Sciences Michael Smith Building Oxford Road, Manchester M13 9PT UK

phone: +44 (0)161 275 5094 fax: +44 (0)161 275 5082

Daniel.Rozen@manchester.ac.uk

UMunich PhylogenomicsNon-Bilateria

Munich, Germany: Research Associate (Post-Doc) position in molecular computational phylogenetics and phylogenomics of non-bilaterian animals.

We invite applications for a research associate (Post-Doc) position in a project funded by the German Research Foundation (DFG) “A phylogenomic approach to resolve deep phylogenetic incongruences among Phylum Poriferaâ in the DFG Priority Programme 1174: ”Deep Metazoan Phylogeny“, co-funded by the Bavarian Ministry for Science, Education and the Arts.

The project is located in the Molecular Geo- & Palaeobiology Lab of the Department of Earth- and Environmental Sciences (Chair of Palaeontology) and the GeoBioCenterLMU of the Ludwig-Maximilians- Uni-

versität (LMU) München.

The phylogenetic relationships among non-bilaterians (i.e. taxa Porifera, Ctenophora, Cnidaria & Placozoa) are still under hot debate and are far from being unequivocally resolved. Uncertainty exists about whether poriferans (sponges) are a monophyletic group or a paraphyletic assemblage, and the branching order of taxa Ctenophora (comb jellies) and Placozoa is still debated. However, our recent phylogenomic results revive classical concepts about non-bilaterian relationships in recovering monophyletic Porifera and a sister-group relationship of Cnidaria and Ctenophora (Coelenterata) (Philippe et al. 2009, Current Biology).

In the framework of this project, you can build on more than 40,000 EST sequences and will have access to currently being sequenced transcriptomes of selected non-bilaterian lineages. With these resources you will carry out intensive phylogenomic analyses and have the opportunity for further analyses, e.g., to reconstruct the evolution of key-genes and pathways.

This project will be carried out in collaboration with Prof. B. Morgenstern of the Dept. of Bioinformatics at the University of Göttingen.

We are seeking a highly motivated applicant with excellent in silico molecular-phylogenetic/phylogenomic and computational skills, demonstrated by an excellent track-record of international publications in the field. The working language of the group is English, and applicants from abroad are encouraged to apply.

The successful candidate will join a young, international and dynamic lab focussing on the molecular palaeobiology (micro- and macroevolution) of marine animals. More information about the lab can be found at www.mol-palaeo.de Requirements: PhD in Biology or related field; very good and demonstrated understanding of molecular evolution and computational phylogenetics, including methods to infer molecular phylogenies from large phylogenomic data sets, and state-of-the art computer programs for such analyses; excellent English language skills. Excellent and profound knowledge of UNIX/LINUX and programming skills in e.g. Perl or Python are essential.

The position is available for 24 months (starting from 01.01.2010) and will be paid according to the German TV salary scheme TV-L E13.

Application: Send application including letter of intent, CV, PDFs of your three most significant publications, and details of 2 referees as PDF (only) by email to Mrs. Monika Brinkrolf (Secretary): m.brinkrolf (at)lrz.uni-muenchen.de

Only applications stating the keyword "DEEP-PORI" in the subject line of the email will be accepted. Application deadline is October 15, 2009. Informal enquiries about the position may be directed to Prof. Dr. Gert Wörheide (woerheide(at)lmu.de).

The Department of Earth- and Environmental Sciences (Section Palaeontology & Geobiology) of the Ludwig-Maximilians-Universität Munich offers an excellent multidisciplinary research environment, one of its particular strength being due to the close interaction between Geosciences and the Biological Faculty in the framework of the GeoBioCenterLMU (http://-www.geobio-center.uni-muenchen.de).

The LMU Munich is the leading research university in Germany, with a more than 500-year-long tradition, and builds upon its success in the Excellence Initiative, a Germany-wide competition promoting top-level university research. Munich has also been repeatedly voted Germany's most livable city.

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

— Prof. Dr. Gert Wörheide Molecular Geo- & Palaeobiology Department of Earth and Environmental Sciences & GeoBio-CenterLMU Ludwig-Maximilians-Universitaet Muenchen Richard-Wagner-Straße 10 80333 Muenchen Germany

Phone: +49 (89) 2180-6718 Fax: +49 (89) 2180-6601 E-Mail: woerheide@lmu.de www.palmuc.de | www.mol-palaeo.de

Director, Bavarian State Collections of Palaeontology and Geology Spokesman of the Executive Board, GeoBio-CenterLMU

Lab publications:

— / —

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

UMunich TheoEvolutionaryEcol

UNIVERSITY of MUNICH (LMU) Department Biology, Evolutionary Ecology

POST-DOCTORAL POSITION IN THEORETICAL

EVOLUTIONARY ECOLOGY: Modeling phenotypic plasticity

A current model (Gabriel (2005), J.evol.Biol. 18: 873-883 and Gabriel et al. (2005), Am. Nat. 166: 339-353) includes spatial and temporal variations of the environment, irreversibly and reversibly plastic phenotypic traits, reliability of inducing cues and time delays for phenotypic response. This model needs to be extended to non-multiplicative fitness components and will be tested with experimental data of inducible defenses in Daphnia, heat-hardening in Drosophila and thermal physiology. After implementing explicit quantitative genetics the model will be used to study the role of phenotypic plasticity in the process of adaptation by modifying and directing the evolutionary response of organisms under diverse selection regimes. A solid background in evolutionary biology and previous experience in modeling are desirable. The successful candidate is expected to interact also with other scientists of EES (see www.eeslmu.de). The position is will remain open until filled. The starting date is negotiable. The post is available for up to 3 years. Initial appointment is for one year.

Applicants should submit (email preferred) a letter of interest, a complete CV, reprints (pdf-files) of not more than three papers, name and contact information of at least two references before October 15 to: wilfried.gabriel@lmu.de

Wilfried Gabriel Professor of Ecology Evolutionary Ecology Department Biologie II University of Munich (LMU) Grosshaderner Str. 2

D-82152 Planegg-Martinsried Germany

Tel: ++49 89 2180 74 202

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

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

UNacionalAutonomaMexico InsectSystematics

Postdoc in molecular systematics of insects,

The new group in Insect systematics at the Instituto de Biología, Universidad Nacional Autónoma de México (UNAM) , in Mexico City, is looking for a candidate to apply for a postdoctoral fellowship given by UNAM to work on molecular systematics and evolution of insects, particularly parasitic hymenopterans and hemipterans. A candidate with experience in DNA sequencing, phylogenetic methods, and or entomology is preferred. The candidates must be less than 36 years old, have finished her/his PhD during the last two years, have published at least one paper in an indexed journal, and have good English writing and strong organizational skills. Spanish language is not compulsory. Salary will be of approximately 23,000 Mexican pesos per month (around 20,400 dlls. per year). The selected candidate will submit her/his application to UNAM before 15 October 2008. In the case that the fellowship is given, the position would be offered for a period of one year starting from March 2010, with option to extend it for an additional year.

Interested people please send a motivation letter and CV before 2 October to Alejandro Zaldívar Riverón (azaldivar@ibiologia.unam.mx).

The lab webpage is found in: http://-www.ibiologia.unam.mx/HLabweb/index.html UNAM's postdoctoral fellowships webpage is: http://dgapa.unam.mx/programas/f_posdoc/-becasposdoc.html Instituto de Biología webpage: www.ibiologia.unam.mx Cheers,

Dr. Alejandro Zaldívar Riverón Departamento de Zoología Instituto de Biología Universidad Nacional Autónoma de Mexico 3er. Circuito Exterior Cd. Universitaria Apartado Postal 70-153 C.P. 04510 Mexico, D.F. Mexico

Phone: 00 52 (55) 56 22 91 33 Fax: 00 52 (55) 55 50 01 64

Alejandro <azaldivar@ibiologia.unam.mx>

UOtago NZ Genomics Reproduction

UNIVERSITY OF OTAGO Te Whare Wananga o Otago

Dunedin, New Zealand

Postdoctoral Fellow (Fixed-term)

CENTRE FOR REPRODUCTION AND GENOMICS DEPARTMENT OF ANATOMY AND STRUCTURAL BIOLOGY OTAGO SCHOOL OF MEDICAL SCIENCES

We are seeking an outstanding Postdoctoral Fellow, to

spearhead several new research projects in our laboratory, based at the recently established Centre for Reproduction and Genomics (CRG) on AgResearch[1]s Invermay campus. The CRG utilises genomic approaches to investigate issues associated with reproduction, health and disease in humans, livestock or animal models. Project opportunities for the Fellow are broad and would suit an exceptional postdoctoral scientist seeking opportunity to develop an independent research project that intermeshes with current activities in the Gemmell laboratory and the rest of the Centre for Reproduction and Genomics (http://www.crg.org.nz). The CRG offers the opportunity to work with leading edge DNA technologies including NexGen sequencing, high throughput genotyping and expression array systems and project support funds will be made available to the successful applicant, to enable them to explore the potential of these technologies in projects of mutual interest.

Applications are invited from postdoctoral candidates who have experience in molecular biology, evolutionary and population genetics/genomics, and bioinformatics. The successful candidate is likely to be skilled in molecular genetic techniques and in the analysis of genetic data and associated statistics. They will be highly self-motivated and be able to work alongside a wide variety of people. In addition, they will have a strong commitment to research excellence with a track record of high research productivity based on international, peer-reviewed publications commensurate for their career stage.

All applications will include a project proposal. Applicants are encouraged to seek further information on the current science scope undertaken in the CRG and to discuss suitability of project proposals with Professor Gemmell before applying.

Specific enquiries may be directed to Professor Neil Gemmell, Centre for Reproduction and Genomics, Department of Anatomy and Structural Biology, Email neil.gemmell@otago.ac.nz

Applications quoting reference number A09/97 close on Friday 9 October 2009.

Application Information

Send applications to the Human Resources Division, Email job.applications@otago.ac.nz <mailto:ling.chong@stonebow.otago.ac.nz> , Fax 03 479 8279. With each application, please include an application form, an EEO information form, a covering letter and your curriculum vitae. The forms and a full job description are available at www.otago.ac.nz/-jobs < http://www.otago.ac.nz/jobs > Alternatively, contact the Human Resources Division, Tel 03 479 8269, Email job.applications@otago.ac.nz <mailto:ling.chong@stonebow.otago.ac.nz>

Equal opportunity in employment is University policy.

E tautoko ana Te Whare Wananga o Otago i te kaupapa whakaorite whiwhinga mahi. www.otago.ac.nz/-jobs Neil J. Gemmell Professor and Director Centre for Reproduction and Genomics Department of Anatomy & Structural Biology University of Otago, PO Box 913 Dunedin 9054 New Zealand

Phone: +64 3 479 6824 Fax: +64 3 479 7254 e-mail: neil.gemmell@otago.ac.nz website: www.crg.org.nz neil.gemmell@otago.ac.nz neil.gemmell@otago.ac.nz

UPenn ComputationalStructureInfluenza

Post-doc Opportunity for Computational Structural Biologist: Computational analysis of Influenza structual evolution

A postdoctoral fellowship (2-3 years) is available in the research group of Dr. Joshua B. Plotkin at the University of Pennsylvania (http://mathbio.sas.upenn.edu/), for an NIH-funded project on the structural evolution of Influenza viral proteins.

The research project aims to provide a rational basis for choosing annual vaccine strains by combining phylogenetic sequence analysis with computational structural biology. The post-doctoral fellow will employ homology modeling to estimate three-dimensional protein structures for thousands of sequenced influenza A hemagglutinin variants.

Requirements for the position include: familiarity with computational methods for estimating three-dimensional protein structures, by homology modelling or other techniques; a PhD in structural biology, mathematics, physics or related areas; excellent communication skills. The ideal candidate should also be familiar with scientific programming. Candidates interested in computational analysis of protein structures, but lacking detailed experience in this field, will also be considered.

The postdoctoral fellowship provides a competitive annual stipend plus benefits and health insurance. Start date is immediate. Applications are welcome from candidates of any nationality, and they will be reviewed

immediately.

The Penn Genome Frontiers Institute offers an outstanding intellectual environmental. Research at the Institute addresses basic questions in biology through genomic, computational, and modeling approaches. Collaborations among research groups and across the broader Penn community are common. The Institute is housed in the newly constructed Lynch research building.

Applicants are encouraged to email a statement of research interests, CV, and contact details for three references to jplotkin (at) sas.upenn.edu.

Joshua B. Plotkin Martin Meyerson Assistant Professor of Interdisciplinary Studies Department of Biology University of Pennsylvania http://-mathbio.sas.upenn.edu/ jplotkin@sas.upenn.edu jplotkin@sas.upenn.edu

UppsalaU mtDNA selection

Postdoctoral Researcher, Evolutionary Biology, Uppsala University

A postdoc position is available at the Dept. of Ecology and Evolution, at the Evolutionary Biology Centre of Uppsala University, to study selection on mitochondrial DNA. The Evolutionary Biology Centre hosts a number of independent research programs and currently harbors well over 400 faculty, postdoc and PhD students. The EBC offers an outstanding international scientific environment in evolutionary biology (see http://www.ebc.uu.se/-index_eng.php). This position will be located within the Animal Ecology program (http://www.iee.uu.se/-zooekol/default.php?lang=en) in the group led by Prof. Göran Arnqvist (http://www.ebc.uu.se/zooeko/-GoranA/GA.html).

Our understanding of the evolution of mtDNA is currently undergoing a revolution: a view of mtDNA sequence variation as being strictly neutral is gradually being replaced by one where mtDNA polymorphism and evolution results from natural selection. However, it is generally difficult to understand how genetic variation in this maternally inherited and non-recombining haploid genome can be maintained in the face of natural selection. The primary aim of the current position is to study selection on distinct mtDNA haplotypes empirically, by controlled laboratory selection experiments. The most likely model system will be seed beetles of the genus Callosobruchus, but other invertebrates may also be employed in part based on the experience and interests of the successful applicant.

The successful applicant will have a strong and documented interest in evolutionary biology and a PhD within this general field. Some background in genetics, with experience of at least basic molecular methods (PCR and sequencing), is highly desirable. Experience of laboratory work with invertebrates, a strong interest in natural selection/adaptation and past experience of working with mtDNA are all beneficial. The holder of this position is expected to be fluent in English, be able to work independently as well as in a team, and to show excellent writing skills. This position is open for both Swedish and non-Swedish citizens.

The position is for two years, with a possible extension. It is not a fellowship/stipend, but an actual employment as a postdoctoral researcher at the University of Uppsala, thus including social benefits. Salary will start at about 2600 euros/month. Starting date is negotiable.

Applications are sent to Prof. Göran Arnqvist (Goran.Arnqvist@ebc.uu.se). To apply, please send (1) a letter describing your education, qualifications, revelant experiences and your research interests (maximum of two pages), (2) a CV, (3) a list of publications and (4) a copy of your PhD certificate. In addition, applicants should arrange to have three letters of reference submitted by the closing date October 31, 2009. Any questions about this position should be directed to Goran.Arnqvist@ebc.uu.se.

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

Email: Goran.Arnqvist@ebc.uu.se Phone: +46-(0)18-471 2645 Cell phone: +46-(0)70-2935032 Fax: +46-(0)18-471 6484 Homepage with PDF downloads and more at: http://www.ebc.uu.se/-zooeko/GoranA/GA.html goran.arnqvist@ebc.uu.se goran.arnqvist@ebc.uu.se

UTennessee ComparativeMethods

Postdoc in developing and applying comparative methods

PI: Brian O'Meara, U of Tennessee, Knoxville (http:/-

/www.brianomeara.info)

A 2-year postdoctoral position is available for development, implementation, and application of methods for investigating trait evolution on trees. The postdoc will be an active member of the trait evolution working group of the iPlant Collaborative (http://iplantcollaborative.org), which is developing approaches to understand trait evolution on plant phylogenies with hundreds of thousands of taxa as part of iPlant's broader mission to support cyberinfrastructure across the plant sciences (funding for this position comes from iPlant).

The candidate can anticipate working in a highly collaborative, multi- institutional context that entails the working groups on data set assembly (Doug Soltis (U Florida), Pam Soltis (U Florida), Michael Donoghue (Yale)), gene tree reconciliation (Todd Vision (UNC)), high performance computing and scalable tree construction (Alexandros Stamatakis (Technical University, Munich), Casey Dunn (Brown)), and tree visualization (Michael Sanderson (U Arizona)). The members of the trait evolution working group include Joe Felsenstein (U Washington), David Ackerly (UC Berkeley), Rod Page (U Glasgow), and Jeremy Beaulieu (Yale).

In addition to undertaking basic research in phylogenetic methods, the postdoc will be expected to provide advice to and work in collaboration with cyberinfastructure developers in the iPlant team. Qualifications include familiarity with the data, methods, and software of phylogenetic analysis, and programming experience at least at the level of R or Perl scripts. It is always good to know botany, but this is not expected for the position.

The position is located at the University of Tennessee, Knoxville. Attractions of Knoxville include an active and collaborative Ecology and Evolutionary Biology department (http://eeb.bio.utk.edu), a low cost of living, a rich natural environment, and the new National Institute for Mathematical and Biological Synthesis (http://-/www.NIMBioS.org).

The position is available immediately. For more information, please email bomeara@utk.edu or see http://-www.brianomeara.info/lab .

Brian O'Meara http://www.brianomeara.info Assistant Professor Dept. Ecology and Evolutionary Biology University of Tennessee, Knoxville

bomeara@utk.edu bomeara@utk.edu

UTuebingen PlantHybridNecrosis

Postdoc and PhD positions in genetic incompatibility/hybrid necrosis

Several years ago, the Weigel lab discovered that hybrid necrosis, a type of genetic incompatibility found in many different plants, also occurs in Arabidopsis thaliana. Even though the underlying genetic basis appears to be heterogeneous, a collaboration with the Dangl lab established autoimmunity as the common cause. Since our first publication on hybrid necrosis in 2007 (Bomblies, Lempe et al., PLoS Biology 5, e236), we have cloned several additional causal loci. Interesting patterns are emerging for their molecular nature and allelic diversity, and we are expanding our biochemical and population genomic analyses of this interesting phenomenon.

We are looking for additional postdocs and PhD students to join an active team of five postdocs and PhD students already working in this exciting area. Postdoc applicants need to have published at least one first-author paper in an international journal. PhD students must have a Masters degree in a relevant discipline and need to document practical experience in molecular genetics, biochemistry, population genetics and/or bioinformatics.

Apart from members of the Weigel lab, you will interact with colleagues on a joint international HFSP grant (with Jeff Dangl [UNC]; Jonathan Jones [Sainsbury Laboratory]; and Michael Doebeli [UBC]). You will also benefit from the 1001 Genomes (http://-1001genomes.org) resources we are generating. Additional information on the group, the institute, and Tübingen can be found on our website (http://-weigelworld.org).

Please send applications, with a statement of purpose, at least three names of references, and the subject line <arab-gen posting> to

Detlef Weigel

Director, MPI for Developmental Biology

weigel@weigelworld.org

Detlef Weigel <detlef.weigel@tuebingen.mpg.de>

stevep@uvic.ca stevep@uvic.ca

UVictoriaUBritColumbia InsectProtistAssociations

Junior Fellowship in Integrated Microbial Biodiversity

The Integrated Microbial Biodiversity Program of the Canadian Institute for Advanced Research (CIFAR) is seeking an exceptional postdoctoral researcher to fill a two-year Junior Fellow position to begin as early as December 1, 2009. CIFAR is a catalyst for discovery, incubating ideas that revolutionize the international research community. The Integrated Microbial Biodiversity (IMB) Program is comprised of a leading group of scientists whose goal is to explore and understand the astounding diversity of bacteria, viruses and other microbes on our planet.

The focus of this position is on the evolution of associations between insects and protists. The Junior Fellow will work on highly collaborative research between the labs of Steve Perlman (ecology and evolution of insects and their associates) at the University of Victoria, and Patrick Keeling (protist genomics and evolution) at the University of British Columbia. The applicant may use either lab as a home base (or both, one in each year). The project area is open but may include the following: a) Tripartite symbioses between termites, protists, and bacteria; b) Evolution of Drosophila-protist associations; c) Molecular approaches to the study of microsporidian male-killers. The successful candidate will have an outstanding record of accomplishment in a related research area, excellent communication skills, and strong potential to collaborate with program members. During his or her tenure, the Junior Fellow will be integrated as a member of the IMB Program and will also participate in CIFAR's elite Junior Fellow Academy. For more information, please see the full advertisement posted at http://www.cifar.ca/JFA .

Applications must include a CV (including list of publications) and a brief (1-page) statement of research interests. Materials should be sent to stevep@uvic.ca or pkeeling@interchange.ubc.ca . Applicants should also arrange for three letters of reference, not from CIFAR members, to be sent to the same address. To receive full consideration, applications must be received by October 9, 2009.

Steve Perlman Assistant Professor Department of Biology University of Victoria Victoria, BC, Canada V8W 3N5 email: stevep@uvic.ca

UWashington StatisticalGenetics

Two-year postdoctoral position in Statistical Genetics available. Department of Statistics, University of Washington, Seattle, WA.

A 100% postdoctoral Research Associate position is available, on funding expected to start October 1, 2009. This position is under the supervision of Dr. Elizabeth Thompson (www.stat.washington.edu/~thompson), and is expected to be funded by NIGMS through ARRA. Salary and benefits will be in accordance with NIH and University of Washington salary scales and policies.

Subject to satisfactory performance and availability of funding, this is a two-year position to work on a specific project funded under ARRA. This exciting project involves development of statistical and computational methods to infer coancestry of genome segments among individuals selected from populations. Studies include feasibility and performance analyses, using real haplotypic data imposed on simulated population pedigrees.

Requirements: Ph. D. in Computational Biology or Genomics, Population Genetics, Statistics, Biostatistics, or a related field.

Demonstrated programming skills, including use of the Standard C language and UNIX/Linux operating systems.

Some knowledge/experience in complex stochastic systems and/or statistical population genetics.

Enquiries BY PLAIN TEXT E-MAIL ONLY PLEASE, should be sent to Professor Elizabeth Thompson, (eathomp@u.washington.edu). Please do NOT send email attachments as WORD documents, HTML etc. If you wish to provide supporting information, please send a reference to a web page or PDF attachments only. If applying, please provide email addresses of 3 referees.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. AA/EOE.

eathomp@u.washington.edu eathomp@u.washington.edu

Vienna DrosophilaAging

Postdoctoral Position in Mechanisms of Drosophila Aging

A postdoctoral research position in the biology of *Drosophila* aging and physiology is available in the group of Dr. Thomas Flatt at the University of Veterinary Medicine (Department of Biomedical Research, Institute of Population Genetics), Vienna, Austria (http://i122server.vu-wien.ac.at/pop/Flatt_website/-flatt_home.html). The postdoc position is funded by a grant from the Austrian Science Foundation (FWF) and will be for three years.

This research project will focus on the identification of the molecular basis of the trade-off between reproduction and lifespan in the fruit fly, * Drosophila* *melanogaster*, a powerful genetic model system. In many organisms, from fruit flies to humans, reproduction shortens lifespan, but the underlying mechanisms remain largely unknown (see Flatt & Promislow 2007 in Science). Experiments in *C. elegans* suggest that hormonal signals from the gonad affect longevity (Hsin & Kenyon 1999 in Nature), and we have recently found that germline ablation extends lifespan and affects insulin signaling in *Drosophila* (Flatt et al. 2008 in PNAS). However, the details of this systemic regulation of lifespan by the reproductive system remain unclear. In our project we are interested in dissecting the endocrine and physiological mechanisms that modulate the reproduction-longevity trade-off. By employing mutant and transgene analysis, genetic manipulation of the gonad, epistasis experiments, hormonal manipulations, and physiological measurements we will examine the mechanisms whereby signals from the reproductive system modulate longevity.

We are seeking a highly talented, dynamic, independent, and self-motivated young biologist with good social skills. The successful candidate will have a Ph.D. and a strong background in genetics and molecular biology using the *Drosophila* system. Some background in the biology of aging, evolutionary biology, and/or physiology and endocrinology would be ideal, but is not required. The working language in the laboratory is English, so the candidate should be proficient in spoken and written English. German skills, although helpful, are not essential. The initial appointment will be made for one year, with a possible extension to up to three years. The annual salary is 54,180 Euro (before tax). The position is available as of now, but the starting date is negotiable.

In a 2009 world-wide survey by the William M. Mercer Institute, Vienna ranked first world-wide in terms of standards of living. Vienna is a beautiful, historical yet modern city, located in the heart of Europe, close to the Alps and to major cities like Munich, Zurich, Prague, and Budapest. Being famous for its concert sites, opera houses, theathers, museums, and coffee shops, Vienna also provides great outdoor activities, such as sailing on the Neusiedler See, ice skating, biking and hiking in the Viennese woods and the nearby Alps. Moreover, the city has a wide range of great restaurants, bars, wineries, cinemas, clubs, libraries, galleries, and art collections. The Vienna area is also an exceptional and highly international research environment. Four major life science universities and three world-class research institutes (GMI, IMBA, IMP) provide a dynamic and interactive setting. Vienna hosts an active* Drosophila* community, and the onsite availability of the *Drosophila* RNAi center (VDRC) provides a great opportunity for functional *Drosophila *work. In population genetics and evolutionary biology, the Vienna research area also provides excellent prospects, due to a growing number of evolutionary research groups.

To apply for this position, please send a single pdf file including: (1) a cover letter explaining why you would like to join our group, (2) your Curriculum Vitae (including a description of your skills), (3) your publication list, (4) a statement of research interests, and (5) contact details for 2-3 academic references who are willing to write a reference letter on your behalf to the following email address: thomas.flatt@vu-wien.ac.at

Informal inquiries are welcome and should be sent to the same e-mail address. For further information see (http://i122server.vu-wien.ac.at/pop/Flatt_website/-flatt_home.html).

The deadline for submission is *31 October 2009*.

Dr. Thomas Flatt University of Veterinary Medicine Department of Biomedical Research Institute of Population Genetics Veterinärplatz 1 / Josef Baumann Gasse 1 A-1210 WIEN Austria

VOX +43(0)1-25077-4334 FAX +43(0)1-25077-4390 E-mail: Thomas.Flatt@vu-wien.ac.at

Dr. Thomas Flatt Veterinärmedizinische Universität Wien Institut für Populationsgenetik Veterinärplatz 1 A-1210 WIEN, Austria

VOX +43(0)1-25077-4334 FAX +43(0)1-25077-4390

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

Vienna DrosophilaEvolution

POSTDOCTORAL POSITION IN DROSOPHILA MORPHOLOGICAL EVOLUTION

A postdoctoral position is available to investigate the genetic basis of morphological evolution in Drosophila in the group of Dr. Alistair McGregor at the Institute for Population Genetics, University of Veterinary Medicine, Vienna, Austria.

The successful candidate will have a Ph.D. and a strong background and research interests in evolutionary developmental biology. Candidates with experience in Drosophila genetics, molecular biology and population genetics are particularly encouraged to apply. The working language in the laboratory is English, and therefore proficiency in spoken and written English is required. German skills, although helpful, are not essential. The initial appointment will be made for one year, with a possible extension to up to three years. The annual salary is 54,180 Euro (before deductions). The position is available from January 1st 2010, but the start date is negotiable.

To apply for this position, please send a single pdf to alistair.mcgregor@vetmeduni.ac.at containing:

(1) A cover letter explaining why you would like to join my group (2) Curriculum vitae (including a description of your skills) (3) List of publications (4) Statement of research interests (5) Contact details for 2 or 3 academic referees

Informal inquiries are welcome and should be sent to the same e-mail address. For further information see: http://i122server.vu-wien.ac.at/pop/-McGregor_website/mcgregor_home.html The deadline for applications is October 1st 2009.

Alistair P. McGregor

Institut für Populationsgenetik Veterinärmedizinische Universität Wien Josef Baumann Gasse 1 1210 Vienna Austria

Tel: +43-1250-77-4334 Fax: +43-1250-77-4390

http://i122server.vu-wien.ac.at/pop/-McGregor_website/mcgregor_home.html Alistair McGregor <alistair.mcgregor@vetmeduni.ac.at>

WakeForestU HumanAdaptation

A Postdoctoral Fellow position is available immediately in the Department of Obstetrics/Gynecology, Wake Forest University Health Sciences, Winston-Salem, NC. (WFUHS position number is 9941)

POSTDOC IN FUNCTIONAL GENOMICS/PHYSIOLOGY AT WAKE FOREST UNIVERSITY, WINSTON-SALEM, NC. We are seeking a PhD (or equivalent degree) in Physiology, Genetics, Biology, Biological Anthropology or related field to join an active research group investigating the functional effects of genetic variants identified as likely targets of natural selection for human adaptation to high altitude. A candidate with experience with translational genomic approaches using cell culture systems and/or vascular reactivity studies using small vessel myography is preferred. A successful applicant is expected to work independently; therefore strong organizational as well as verbal and written communication skills are essential. Starting salary will be commensurate with experience. Applicants should email curriculum vita and letter of interest to Dr. Lorna G. Moore (moore@wfu.edu), Wake Forest University, Winston-Salem, NC 27157-1001.

Cheers!

Lorna Lorna G. Moore, PhD Dean, Graduate School of Arts & Sciences Wake Forest University Bowman Gray campus 336-716-4303, lmoore@wfubmc.edu Reynolda campus 336-758-5301, moore@wfu.edu

"Moore, Lorna G." <moore@wfu.edu>

Yale EvoDevo

Post-doctoral position: Yale Evo-Devo

A one-year NIH-funded post-doctoral position is available to work in the lab of Antonia Monteiro, in the Dept. of Ecology & Evolutionary Biology, Yale University. The successful candidate will be involved in a project testing Ultrabithorax (Ubx) function in eyespot, wing, and leg development in Bicyclus anynana

butterflies. The candidate will also be expected to assist with grant writing with the purpose of obtaining more funding from NIH for this and related projects. Transgenic B. anynana lines containing Ubx sequences both for over- expression and down-regulation of endogenous Ubx have already been produced but need to be further characterized. This project involves an active collaboration with Aleksandar Popadic at Wayne State University, who is studying Ubx function in wing and leg development of hemimetabolous insects.

Candidates should have a strong background in molecular biology, and an interest in evo-devo. Also experience with QT-PCR, immunohistochemistry and in situ hybridization is a plus. If interested, please contact antonia.monteiro@yale.edu with your cv and research statement.

Other on-going projects in the lab involve butterfly phylogenetics, physiology, and behavior. There are three other evo-devo labs in EEB at Yale (Wagner, Irish, and Prum) and a very lively and friendly community of postdocs. Most postdocs live in neighborhoods at walking distance from Yale. New Haven is a midsized urban community with plenty of cultural life, a high standard of living, and 2h from NYC.

Antónia Monteiro <antonia.monteiro@yale.edu>

Yale EvolutionTheory

Yale University, Department of Ecology and Evolutionary Biology (http://www.eeb.yale.edu/). A group of faculty is seeking Postdoctoral Associate(s) to work on the evolution and ecological consequences of plasticity in life history and other traits affecting evolutionary and ecological interactions focusing either on (a) the theory of population and community dynamics in an eco-evolutionary/adaptive dynamics setting or (b) empirical tests of the predictions of such theory in lab and field.

Applicants should have a general background in evolutionary and ecological theory. For (a), applicants must have previous experience developing mathematical models; individuals with experience using adaptive dynamics, game theory, or evolutionary quantitative genetics are especially encouraged to apply. For (b), applicants should have lab or field experience working with a relevant ecological community.

Salary $40,000; position for one year with a second year possible given satisfactory performance. Starting date negotiable. The successful candidate will be mentored by Suzanne Alonzo, David Post, Stephen Stearns, and David Vasseur, either together or as an appropriate subset.

Yale University is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority are encouraged. Send applications by email to Stephen Stearns (stephen.stearns@yale.edu); include a statement of interest, a CV with publication list, and the coordinates of two referees. Application deadline is November 15, 2009. Position will remain open until filled.

stephen.stearns@yale.edu stephen.stearns@yale.edu

YaleU CompBioBionfMolEvol

Postdoctoral Opening in the Townsend Laboratory

A post-doctoral position in computational biology or bioinformatics is available in the Department of Ecology and Evolutionary Biology at Yale University in the Townsend Laboratory. The position will likely involve research on the evolution of genome sequence, with particular focus on developing novel methods to assess the action of natural selection in sequence data. The candidate should have experience working with whole-genome datasets, constructing bioinformatic pipelines for large-scale data analysis, and familiarity with a wide variety of computational phylogenetic methods and software. Computer programming experience with java (web-based applications) and C++ languages would be ideal.

Applicants soon to acquire their Ph.D. or with previous postdoctoral experience are welcomed. All applicants should have received their Ph.D. prior to taking up the appointment.

Funding from the NIH, NSF, and other sources is available for multiple years, depending on performance. The salary will be greater than the NIH guidelines, and commensurate with experience and expertise. Yale is located in New Haven in the heart of New England, close to Hartford, New York, Providence, and Boston.

Closing date: September 30, 2009, but feel free to inquire after that date as well. Starting date is flexible.

To apply, please send a CV, a brief statement of research interests and contact information for three aca-

demic references to

Jeffrey.Townsend@Yale.edu

Jeffrey P. Townsend, Ph.D.

Assistant Professor Dept. of Ecology and Evolutionary Biology Yale University P.O. Box 208106 165 Prospect Street New Haven, CT 06520

203 432-4646

Jeffrey.Townsend@yale.edu Jeffrey.Townsend@yale.edu

WorkshopsCourses

CzechRepublic ComparativeGenomics Jan24-Feb5 . 96
CzechRepublic MolEvol Jan10-22 97
Florida ConservationGenetics Feb7-20 97
GeorgiaInstTech EvolutionSocialBehav Dec2-4 98
NESCent Phyloinformatics Nov9-13 98
NESCent Phyloinformatics Nov9-13 LastCall 2 . . . 100
Santiago ConservationGenetics Jan12-22 100
StanfordU Biodemography Oct29-31 100
StLouis TreeEvolutionaryGenomics Oct28 101
UCaliforniaSanDiego DrosophilaSpecies Oct29-Nov1 101
UCopenhagen PlantQTL analysis Nov2-6 101
UWyoming UndergraduateBioinformatics May24-Aug6 102

CzechRepublic ComparativeGenomics Jan24-Feb5

Workshop on Comparative Genomics, Europe 2010

Cesky Krumlov, Czech Republic

24 January - 5 February 2010

Application Deadline: 1 October 2009

http://workshop.molecularevolution.org/ Michael P. Cummings and Scott A. Handley, Co-Directors Naiara Rodriquez-Ezpeleta, Associate Director

The Workshop on Comparative Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of comparative genomics. Faculty are chosen exclusively for their effectiveness in teaching theory and practice in comparative genomics. Included among the faculty are developers and other experts in the use of computer programs and packages such as Ensembl, Galaxy, and Species Assignment Package who provide demonstrations and consultations. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students. Scientists with strong interests in the uses of short-read sequence data, analytical methods, comparative structure of genomes, SNP detection and analysis, CNV, genome visualization tools and related areas are encouraged to apply for admission. Lectures and computer laboratories total ~90 hours of scheduled instruction. Admission is limited and highly competitive, with admissions decisions determined by an international committee.

Topics to be covered include:

- Sequencing technologies: short-read sequencing technologies of various types - Assembly and alignment: basic analyses in de novo and resequencing studies - Gene finding and annotation: functional description of genomic data - Genome characterization: gene content; genome structure; synteny; SNPs; copy number variation (CNV) - Assigning sequences to taxonomic groups in metagenomic studies: moving from sequences of unknown taxa to known taxa

2010 Fee: 2250 USD. Fee include opening reception and mid-course dinner, but does not include other meals or housing. Special discounted pricing has been arranged

for hotels, pensions and hostels.

For more information and online application see the Workshop web site -

http://workshop.molecularevolution.org/ The Workshop on Molecular Evolution is also being offered immediately before the Workshop on Comparative Genomics.

mike@umiacs.umd.edu mike@umiacs.umd.edu

CzechRepublic MolEvol Jan10-22

Workshop on Molecular Evolution, Europe 2010

Cesky Krumlov, Czech Republic

10 - 22 January 2010, individual research session 22 - 29 January 2010

Application Deadline: 1 October 2009

http://workshop.molecularevolution.org/ Michael P. Cummings and Scott A. Handley, Co-Directors Naiara Rodriquez-Ezpeleta, Associate Director

The Workshop on Molecular Evolution has been the finest course on the subject since first offered in 1988 in Woods Hole, USA. The Workshop will again be offerred in Europe, in January 2010. The Workshop consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of molecular evolution. Faculty are chosen exclusively for their effectiveness in teaching theory and practice in molecular evolution. Included among the faculty are developers and other experts in the use of computer programs and packages such as BLAST, BEAST, Clustal W and Clustal X, FASTA, FigTree, Genealogical Sorting Index, GARLI, LAMARC, MAFFT, Migrate-N, MrBayes, PAML, PAUP*, and SeaView who provide demonstrations and consultations.

The course is designed for established investigators, postdoctoral scholars, and advanced graduate students with prior experience in molecular evolution and related fields. Scientists with strong interests in molecular evolution, phylogenetics, population genetics, and related fields are encouraged to apply for admission. Scheduled lectures and computer laboratories total ˜90 hours of instruction. An optional all-computer laboratory of 54+ hours of independent work with guidance and consultation of some faculty and teaching assistants is offered during the third week. Admission is limited and highly competitive, with admissions decisions determined by an international committee.

Topics to be covered include:

- Databases and sequence matching: database searching: protein sequence versus protein structure; homology; mathematical, statistical, and theoretical aspects of sequence database searches - Phylogenetic analysis: theoretical, mathematical and statistical bases; sampling properties of sequence data; Bayesian analysis; hypothesis testing - Maximum likelihood theory and practice in phylogenetics and population genetics: coalescent theory; maximum likelihood estimation of population genetic parameters - Molecular evolution integrated at organism and higher levels: population biology; biogeography; ecology; systematics and conservation; population genetics - Molecular evolution and development: gene duplication and divergence; gene family organization; coordinated expression in evolution - Comparative genomics: genome content; genome structure; genome evolution - Molecular evolution of recently diverged species

2010 Fee: 1800 USD, plus an additional 750 USD for the highly recommended, but optional, third week of all-computer laboratory for work on your own data with guidance and consultation of some faculty and teaching assistants. Fees include opening reception and mid-course dinner, but do not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels.

For more information and online application see the Workshop web site -

http://workshop.molecularevolution.org/ The Workshop on Comparative Genomics is also being offered immediately following the Workshop on Molecular Evolution.

mike@umiacs.umd.edu mike@umiacs.umd.edu

Florida ConservationGenetics Feb7-20

Conservation Genetics Course Deadline Extended to September 28 Great Opportunity in Wonderful Venue

The American Genetic Association (http://-www.theaga.org) in conjunction with the National Cancer, Institute, The Laboratory of Genomic Diversity, Frederick, Maryland (http://home.ncifcrf.gov/-ccr/lgd), NOAHS, Smithsonian Institute and the White Oak Conservation Center (http://www.wocenter.org/)

is presenting a 13 day intensive course February 7th thru February 20th, 2010, at the White Oak Conservation Center in Florida, USA.

The course will be directed by Dr. Stephen J. OBrien, and taught by renowned scientists in methods, interpretation, and applications of molecular genetic analyses for conservation of endangered species, who will also share a variety of their personal experiences in this important field.

Applicants should be conservation-minded scientists (advanced graduate students, post-docs, teachers, and researchers with advanced degrees) from academia, government, non-government organizations, or industry who are studying the genetics of endangered species and who will apply the knowledge gained from this course to the conservation of such species. Interested individuals can contact us at congen@ncifcrf.gov or visit the website at http://home.ncifcrf.gov/ccr/lgd/-congen2010/index.asp for course details.

Due to limited computer access, the deadline for applications (with required attachments) has been extended to September 28, 2009. Tuition includes housing, all meals, and transfers from / to White Oak. Limited financial support is available.

Dr. Warren Johnson Laboratory of Genomic Diversity National Cancer Institute Frederick, Maryland USA 21702-1201

TEL: 301-846-7483 FAX: 301-846-6327 johnsonw@ncifcrf.gov

Warren Johnson <warjohns@mail.nih.gov>

GeorgiaInstTech EvolutionSocialBehav Dec2-4

–Workshop announcement–

MICROBES TO METAZOANS: REGULATION, DYNAMICS, AND EVOLUTION OF SOCIAL BEHAVIOR

www.socialbehavior.biology.gatech.edu Georgia Institute of Technology Atlanta, Georgia, USA December 2-4, 2009

Microbes to Metazoans is a 2 1/2 day-long workshop designed to facilitate discussion and collaboration on the study of social behavior. A select group of scientists will discuss and develop new experimental, theoretical, and computational tools to bridge multiple disciplines in the study of group tasks orchestrated by organisms from microbes to metazoans. Topical sessions motivated by a set of fundamental biological questions will be integrated with quantitative modeling and engineering talks. Applications for participation are now being accepted. There is no cost to attend, but space is limited. Information on workshop and application for participation can be found at:

www.socialbehavior.biology.gatech.edu contact: socialbehavior2009@biology.gatech.edu Workshop flyer on website

Confirmed speakers: Tim Cooper (Houston) Iain Couzin (Princeton) Alan Decho (South Carolina) Kevin Foster (Harvard) Kent Hill (UCLA) Vanja Klepac-Ceraj (Harvard) Elizabeth Ostrowski (Rice) Philip Rather (Emory) Kern Reeve (Cornell) Vanessa Sperandio (Texas-SW) Michael Strand (Georgia) Gregory Velicer (Indiana) Marvin Whiteley (Texas-Austin) Frans de Waal (Emory)

Scientific organizers: Brian Hammer (Georgia Tech) Joshua Weitz (Georgia Tech) Michael Goodisman (Georgia Tech)

Michael A D Goodisman

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

email: michael.goodisman@biology.gatech.edu webpage: http://www.biology.gatech.edu/faculty/-michael-goodisman/ lab webpage: http://-www.goodismanlab.biology.gatech.edu/index.html office: 404-385-6311 lab: 404-385-6312 fax: 404-894-0519

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

NESCent Phyloinformatics Nov9-13

NESCent Phyloinformatics VoCamp

OPEN CALL FOR PARTICIPATION

Integrating diverse biological data with the historical process of evolution is a grand challenge for 21st century biology. The interoperability of data from diverse fields (e.g., genetics, ecology, biodiversity, biomedicine) requires a technology infrastructure based on formal-

ized, shared vocabularies. Developing such vocabularies is a community project. In order to build controlled vocabularies and ontologies, the National Evolutionary Synthesis Center (NESCent: http://nescent.org) is sponsoring a "Phyloinformatics VoCamp".

We invite scientists from diverse sub-disciplines to apply for this event, as explained below. The application deadline is September 18, 2009. More information about motivation, plans, and preliminary ideas is available online at http://bit.ly/VoCamp_Proposal. Feel free to disseminate this notice to colleagues who may be interested.*

A VoCamp (http://vocamp.org) is an intense, hands-on, working meeting with face-to-face interactions between a diverse group of people focused on vocabulary and ontology design, development and application. The Phyloinformatics VoCamp will include ontology and vocabulary developers from relevant efforts, experts on knowledge representation and reasoning, and users and developers of integrative applications that use these ontologies.

This event will partially overlap with the Biodiversity Information Standards (TDWG: http://tdwg.org) Annual Conference in Montpellier, France, November 9-13, 2009. The VoCamp is an activity of the TDWG Interest Group on Phylogenetics Standards (http://-wiki.tdwg.org/Phylogenetics) and is partly supported by TDWG and the Université Montpellier.

GOALS AND ACTIVITIES

The objective of the event is to connect previously disparate ontology development efforts, stakeholder communities, and interoperability initiatives with shared objectives. Aside from sharing knowledge, expertise, and best practices, our goal is to build-out existing ontology resources in a hands-on manner in terms of ontological rigor, semantic richness, and modularity that supports effective reuse.

We also plan to have programming expertise and activities present at the event, such as for necessary large-scale transformations, and especially for proof-of-concept applications that directly apply the ontologies being developed.

On a long-term basis, we anticipate that the event, if successful, will give rise to similarly structured follow-up events organized by the participating stakeholder communities, such as TDWG, SONet (http://sonet.ecoinformatics.org), and OBO (http://www.obofoundry.org).

ORGANIZATION

The VoCamp will be 4 days in duration during November 7-11, 2009 and is co-located with the TDWG annual conference (http://www.tdwg.org/conference2009) in Montpellier, France. The first two days (Nov 7-8) will be dedicated entirely to VoCamp and the remainder of the event (Nov 10-11) will overlap with TDWG 'workshops days'. Participants will have the opportunity, and are encouraged, to interact with TDWG participants and attend conference sessions outside of the VoCamp.

The specific vocabulary development targets will be selected by the participants partly in advance through a dedicated area on a wiki, a mailing list, and one or more conference calls, and partly on-site through an Open Space activity. The exact agenda for the event will be developed similarly, but will be largely devoted to ontology and vocabulary development time. At the event itself, participants will self-organize into small subgroups focused on particular targets. The VoCamp will conclude with a wrap-up session, and a report presented to the TDWG conference audience.

We also anticipate that several "boot camps" will be needed to ensure a productive event for all participants, for example on ontology design and engineering, reasoning, and infrastructure for collaborative development of ontologies.

We welcome comments and suggestions for issues in ontology development that are not explicitly addressed here or in our proposal but that could be addressed at the event. Please email the organizers at vocamp1@nescent.org with any suggestions.

HOW TO APPLY

The application consists of your cv and your responses to 6 questions about your experience, skills, objectives, support, and commitment to open software development. To apply, please fill out the online form at http://-/bit.ly/VoCamp_Form by September 18, and submit your CV to the organizers at vocamp1@nescent.org. NESCent will provide funds in support of expenses, including travel, accommodation, registration,

— / —

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

NESCent Phyloinformatics Nov9-13 LastCall 2

NESCent Phyloinformatics VoCamp

LAST CALL FOR PARTICIPATION

This is the second and last circular for the Phyloinformatics VoCamp event that will be co-located with the 2009 TDWG (Biodiversity Standards) Conference. Please note that there is only 1 day left until the deadline for application, which is Friday September 18. The full Call for Participation is at http://-docs.google.com/View?id=dhdjhbvd_66gr5cdqfq .

The application consists of your cv and your responses to 6 questions about your experience, skills, objectives, support, and commitment to open software development through an online form at http://bit.ly/-VoCamp_Form .

The form is easy to fill out, so please do not let the approaching deadline deter you from applying if you are interested.

We specifically encourage applications from members of under- represented groups. If you have questions, contact an organizer or write to vocamp1@nescent.org.

Yours,

The Organizing Committee

Arlin Stoltzfus, Chair (University of Maryland Biotechnology Institute) Nico Cellinese (University of Florida) Karen Cranston (Field Museum of Natural History) Hilmar Lapp (NESCent) Sheldon McKay (Cold Spring Harbor Laboratory, iPlant Collaborative) Enrico Pontelli (New Mexico State University)

Arlin Stoltzfus <stoltzfu@umbi.umd.edu>

Santiago ConservationGenetics Jan12-22

*****VERSION EN CASTELLANO ABAJO*****

NOW ACCEPTING APPLICATIONS for the sixth intensive course offered by the Red de Genética de la Conservación (ReGeneC): "VI Taller de Genética para la Conservación: procesos microevolutivos en especies silvestres," 12-22 January, 2010.

COURSE CONTENT: This unique 11-day intensive course in conservation genetics, offered in Spanish, is designed for Latin American graduate students and young professionals embarking on projects of their own applying genetic tools to conservation problems. Combining lectures, computer labs, hands-on data analysis, discussions, and student presentations, the course provides a survey of genetic, evolutionary, ecological, and statistical theory and applications, as well as the philosophical, ethical, practical, and legal issues relevant to conservation projects. Student evaluations from previous years consistently rate the high student-faculty ratio as a particular course asset, allowing in-depth formal and informal interactions that focus on individually-tailored improvement of student projects. Detailed content is available at http://regenec.ula.ve/-taller/ene2010/ PARTICIPATING FACULTY: To offer a wide array of locally-relevant perspectives and examples in a unified course format, professors come from five Latin American countries (Argentina, Brazil, Chile, Mexico, and Venezuela), and have experience with a wide array of taxonomic groups. See http:/-/regenec.ula.ve/taller/ene2010/invitados.html for this year's faculties.

APPLICATIONS: All documents must be received by October 18, 2009. Please see "Preinscripciones," http://regenec.ula.ve/taller/ene2010/-preincripcion.html for details and scholarship availability.

COURSE HOST: This year's course is hosted by Instituto de Ecología y Biodiversidad y la Universidad de Chile (Santiago, Chile) in collaboration with ReGeneC members. It is mainly supported by Ministerio de Planificación, from Chile, and ReGeneC.

For more information, please send an email to regenec@gmail.com or regenec@ula.ve.

María A. Oliveira-Miranda (Tina) Coordinador Ejecutivo Red de Genetica para la Conservacion (ReGeneC) Universidad Simon Bolivar Tlf: +58-212-9063040 e-mail: regenec@gmail.com http://regenec.ula.ve/-index.html – Las cosas malas, la corrupción, la "injusticia", sólo existen si otros las cometen. T.O.

oliveira.maria@gmail.com

StanfordU Biodemography Oct29-31

Workshop in Biodemography, October 29 - October 31, 2009

The Stanford Center for Population Research announces a workshop on the biodemographic study of life histories. Twenty biologists and demographers from leading institutions in the US and Europe will explore the study of life histories, including

-The use of genomic information on population samples

-How demographers and biologists use longitudinal data

-The use of quantitative genetic approaches

-How demographers and biologists model life histories

Applications are invited from advanced students/postdocs/junior faculty for this 3- day workshop in Biodemography. We can support (travel, shared housing) selected students. We may also accept students who can pay their expenses (there is no fee). To apply send CV and short statement indicating why you are interested, no later than September 25,2009, via

MAIL: Jim Collins, Morrison Institute for Population and Resource Studies, Gilbert 116, 371 Serra Mall, Stanford University, Stanford CA 94305-5020; EMAIL: collinsj@stanford.edu; or FAX: 650-725-8244

For further details please see /https://-iriss.stanford.edu/scpr/activities/ Organizers: Shripad Tuljapurkar, James Holland Jones, Uli Steiner

–

Ulrich Steiner Post-doctoral associate 332 Herrin Hall Department of Biology/Morrison Institute for Population and Resource Studies Stanford CA 94305-5020 Phone (650) 725-7097 Fax (650) 724-3708 Email usteiner@stanford.edu http://-www.stanford.edu/~usteiner/ usteiner@stanford.edu

StLouis TreeEvolutionaryGenomics Oct28

IPMB (International Plant Molecular Biology) 2009 Congress October 25-30, 2009, St. Louis, MO, USA

Tree Molecular Biology and Genomics Workshop Wednesday, October 28, 2009 Organizer: Dr. Om Rajora, Professor and Senior Canada Research Chair, University of New Brunswick. Om.Rajora@unb.ca

Trees are perennial, long-lived and woody plants of great economical, ecological and environmental importance. These plants pose specific challenges and provide unique opportunities for molecular biology and genomics studies and applications. The goal of this workshop is to discuss recent advances in molecular biology and genomics of horticultural and forest trees. The workshop topics will span over various current aspects of molecular biology; structural, functional, population, ecological and evolutionary genomics; metabolomics; and molecular breeding.

The workshop will consist of 6-10 oral presentations and a panel discussion. Interested speakers should submit titles and abstracts of their proposed presentations to Dr. Om Rajora via e-mail (Om.Rajora@unb.ca).

Om.Rajora@unb.ca

UCaliforniaSanDiego DrosophilaSpecies Oct29-Nov1

There are three slots left in the annual Drosophila Species workshop to be held October 29-November 1 at UCSD. Participants learn to identify different Drosophila species and to take advantage of the biology of different species in their research. Details of workshop are at https://stockcenter.ucsd.edu/info/-welcome.php Therese Ann Markow, Professor Amylin Chair in Life Sciences Section of Ecology Behavior and Evolution Division of Biological Sciences Muir Biology Building 2215 9500 Gilman Drive University of California at San Diego La Jolla, CA 92093-0116

Email: tmarkow at ucsd.edu Phone: (858) 246 0095 Laboratory: (858) 246 0402 FAX:(858) 534-7108

http://biology.ucsd.edu/labs/markow/ http://-/stockcenter.ucsd.edu Therese Markow <tmarkow@ucsd.edu>

UCopenhagen PlantQTL analysis Nov2-6

COURSE: MAP CONSTRUCTION AND QTL ANALYSIS IN PLANTS

Herewith, we would like to introduce you to the second module of the KU-LIFE PhD course *Molecular Plant Breeding and Genetic Resources*: *MAP CONSTRUCTION AND QTL ANALYSIS IN PLANTS* Further information can be found on the course homepage: http://www.kursusinfo.life.ku.dk/Kurser/-phdmarker.aspx TIME: November, 2 to 6 (one week, Monday to Friday) 2008, 9:00 to 16:00 every day)

COURSE CONTENT: The course includes theoretical background, exercises and the use of appropriate software for the following areas: * Genetic linkage * Linkage mapping in inbreeding and outbreeding plant species * QTL mapping in inbreeding and outbreeding plant species * LD mapping (association mapping)

TARGET GROUP: The main target group of the course are mainly Ph.D. students that want to use the above described genetic techniques in their work or are simply interested in the issues. External participants (for example from plant breeding or related areas) and senior researchers that want to fresh up their knowledge or enter into this field are also very welcome to the course.

REQUIREMENTS: Basic knowledge in genetics, statistics and computing is required. If you are in doubt, if your pre-knowledge is sufficient, please contact us.

EVALUATION: The evaluation of the Ph.D. students of the course will be based on protocols of the calculations within the course with a deadline of 15-12-2008, The course has a credit of 3 ECTS-points.

TEACHERS: Experienced senior lecturers and researcher will guide you through the course: * Gunter Backes (Linkage, Mapping and QTL mapping in inbreeding species, LD mapping) * Sven Bode Andersen (Mapping and QTL mapping in outbreeding species)

COSTS: The course will cause no additional costs for Ph.D. students from Nordic countries. For external participants, we are obliged to demand a course fee of 3,000 DKK.

CONTACT: Applicaton not later than 15-10-2009 to: Gunter Backes Thorvaldsensvej 40 University of Copenhagen * Faculty of Life Sciences Department of Agriculture and Ecology DK-1871 Frederiksberg C Phone: +45 3533 3434 E-mail: guba@life.ku.dk

guba@life.ku.dk

UWyoming UndergraduateBioinformatics May24-Aug6

In Summer, 2010, we will again run our summer undergraduate research program in bioinformatics. This program is also open to current seniors who will be graduating in May but will not have already committed to a graduate program for the fall. More information about the program, including application materials can be found at http://www.wyomingbioinformatics.org/-SummerSchool/. This information is also attached at the bottom of this email.

Thanks for your help in identifying any good students interested in coming to Wyoming to study bioinformatics. Please forward the message to any students who might be interested. Thank you and best wishes,

David Liberles

Bioinformatics and Computational Molecular Biology Undergraduate Summer Research Program University of Wyoming

The University of Wyoming is proud to offer summer research opportunities to external undergraduate students to engage in research in bioinformatics and computational molecular biology in Laramie. The summer research program will last from May 24, 2010 to August 6, 2010 and will include a stipend of $3500 for the period.

The program includes both lectures and educational opportunities as well as a focus on a research experience.

Several labs that will host bioinformatics/computational molecular biology students include:

* Alex Buerkle: Statistical genetics and models of adaptation and speciation

* Rex Gantenbein: Computational resources for rural health and education

* Mark Gomelsky: Statistical analysis of microarray data; microbiology

* Snehalata Huzurbazar: Birth-death processes in biology

* Jan Kubelka: Protein folding

* David Liberles: Comparative genomics and molecular evolution

* Jessica Siltberg-Liberles: Protein structural bioinformatics

* Anne Sylvester: Comparative genomics of maize

* Dan Wall: Genetics of bacterial motility

* Naomi Ward: Metagenomics and Microbial Genomics

* Cynthia Weinig: Environmental Genetics and Adaptation in Plants

To apply, send a resume, cover letter, and statement of research interests to liberles@uwyo.edu, arrange to have 2 letters of recommendation sent directly by the letter writer to liberles@uwyo.edu, and arrange to have an official transcript sent to:

David Liberles Department of Molecular Biology Dept. 3944 University of Wyoming Laramie, WY 82071

Your cover letter should indicate: 1). Any prior experience in computer programming and if none, any interest in a mini-tutorial on programming; 2). Your plans (if known) immediately after graduation and if they include immediately attending graduate or professional school; 3). If your ultimate career plans involve a Ph.D., an M.D., or an M.D./Ph.D., and 4). Your top two choices of research group to work in over the summer.

Applications for Summer, 2010 are now being accepted. Review of applications will begin on February 5, 2010 and continue until the class is filled.

"David A. Liberles" <liberles@uwyo.edu>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as 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 formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating 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.